

WORLD HI-FI GUIDE

Jonathan Kettle

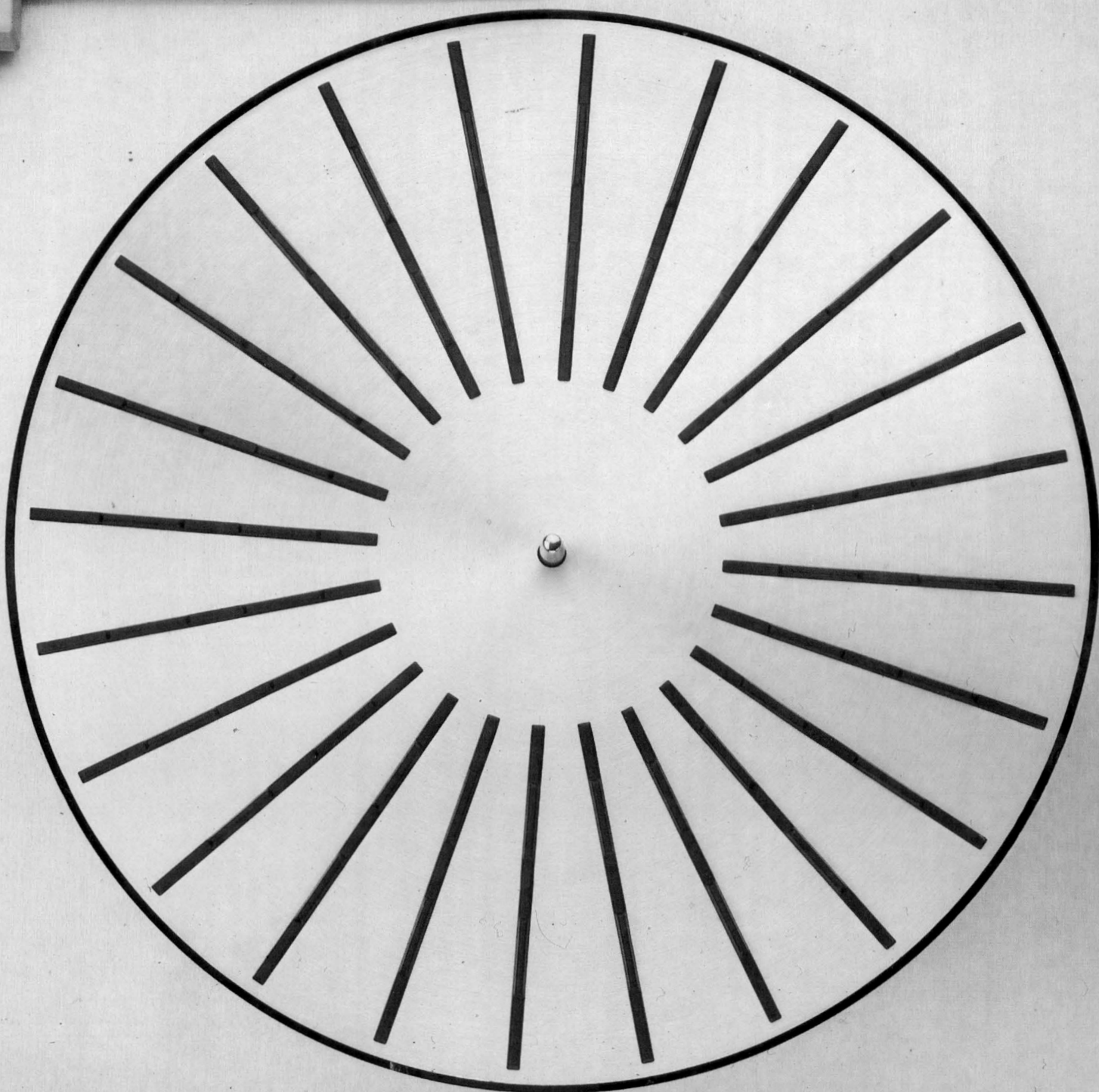
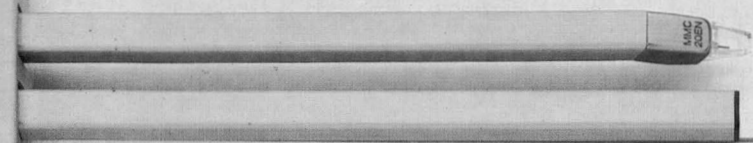
45

BEOGRAM 4002

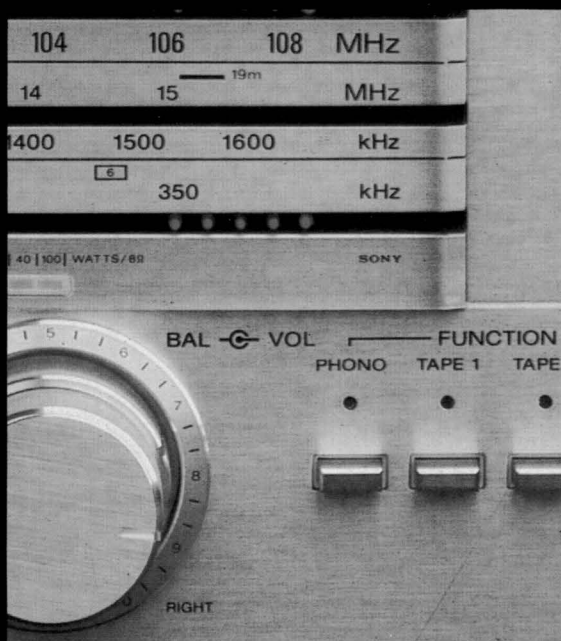
33

START << < ^ > >> STOP

TRACKING FORCE ADJUSTMENT



WORLD HI-FI GUIDE



Choosing and integrating pieces of hi-fi equipment can be complicated, and mistakes are often very expensive. The **WORLD HI-FI GUIDE** is designed to help you to avoid these mistakes by giving you the specifications, features and prices of turntables, arms, cartridges, cassette decks, open reel decks, tuners, tuner-amplifiers, amplifiers and loudspeakers. For those who do not wish to buy the separate components, selected hi-fi systems (including both music centres and rack systems) are also shown.

We are grateful to Graham's Electrical, Laskys and Bang & Olufsen who provided us with the equipment featured in the jacket photographs.

Above: Sony STR 434L (amplifier)

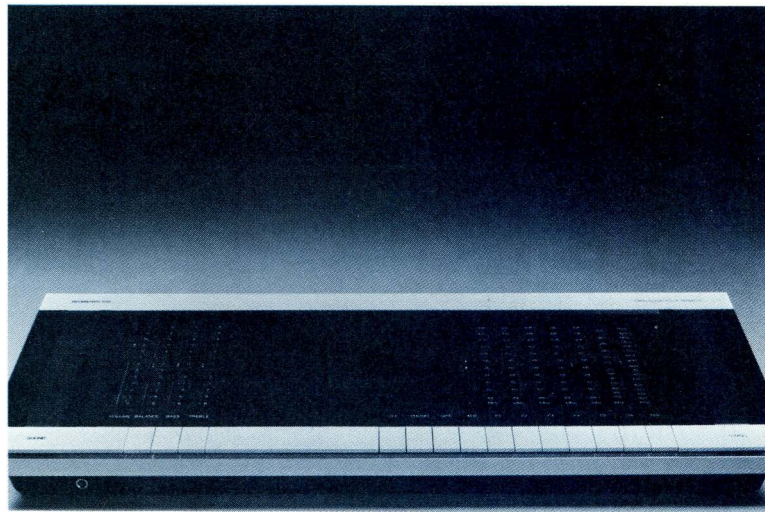
Front jacket: Beogram 4002 (turntable)

Back jacket: Rega Planar 3 (turntable) NAD 3020 (amplifier)

Jacket design: John Bullard-O'Sullivan

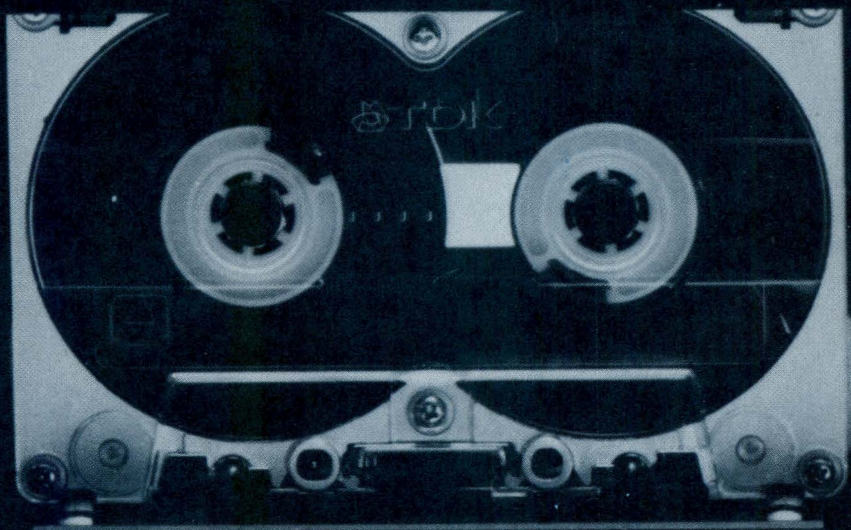
UK price £3.95

WORLD HI-FI GUIDE



Windward


===== DIRECT LOAD & LOCK SYSTEM =====



CASSETTE

CASSETTE

AUTO REVERSE
COMPUTER LOGIC CONTROL

 DOLBY SYSTEM

STOP

CONTENTS

INTRODUCTION

4

TURNTABLES

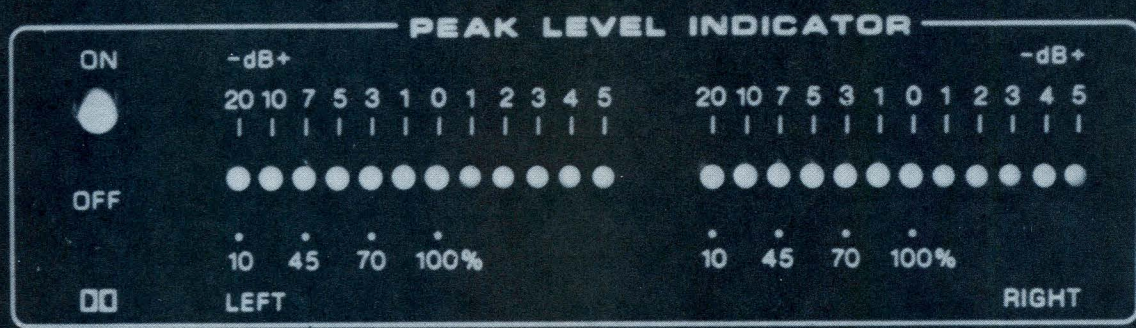
8

ARMS

18

CARTRIDGES

20



FADE EDIT

ON

OUT

PITCH

0 + .2 - .4

PAUSE

Cr Cr II
Fe I Fe Cr Met

LINE MIC
LINE MIC DIN MIC

LIMITER **TIMER** **-MPX** **MEMORY**

REC OFF ON
PLAY OFF ON

LINE / DIN INPUT **MIC**

0 1 2 3 4 5 6 7 8 9 10

R L

PHONES

0 1 2 3 4

L - MIC - R

MADE IN GERMANY

CASSETTE DECKS	24	AMPLIFIERS	43
OPEN REEL DECKS	31	LOUDSPEAKERS	50
TUNERS	34	SELECTED HI-FI SYSTEMS	59
TUNER-AMPLIFIERS	39	GLOSSARY	64

INTRODUCTION

In this, the first **World Hi-Fi Guide**, we have included a broad cross-section of hi-fi units available in Europe, America and the Far East. If there is any emphasis at all, the least and most expensive components of large ranges have been selected for inclusion to give an idea of the range of products now available.

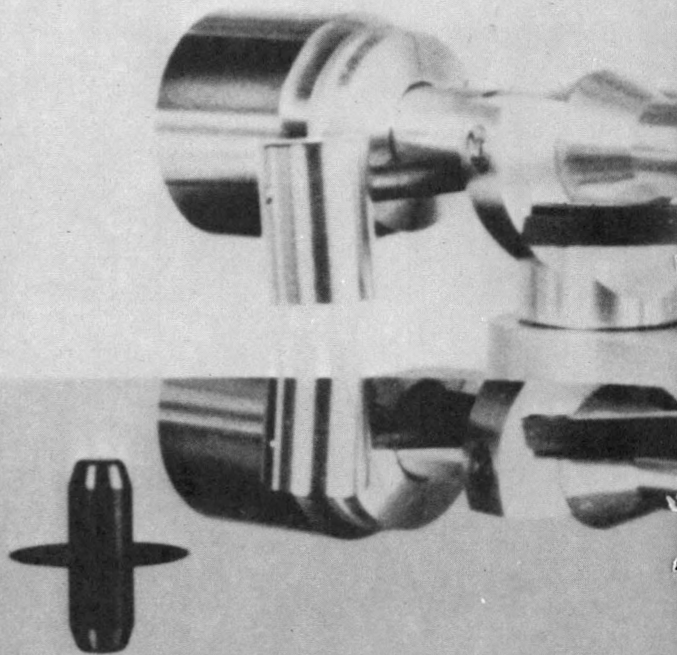
Technical specifications for hi-fi equipment can be misleading or irrelevant. So with this in mind, only those criteria thought to give some objective and meaningful impression of what the equipment is like are included. Very often one aspect of performance is measured by different manufacturers in different ways so that it is impossible to convert for standardization purposes. Where alternative measurements for one parameter were available, both specifications are included. Some examples of this confusing situation are outlined below, along with a brief introduction to the various sections.

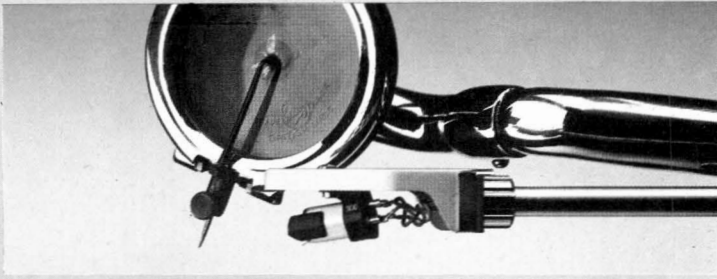
TURNTABLES

There are two types of turntable. One is the conventional integrated turntable with tonearm and sometimes even with pickup cartridge containing the stylus or needle. The other is the non-integrated turntable which is supplied by the manufacturer to the retailer minus an arm. Non-integrated turntables often prove to be the best type, not least because they are made by small specialist engineers who pay a great deal of attention to detail and precision.

Two useful turntable measurements are 'wow and flutter' and 'rumble'. Wow and flutter give an indication of the amount of fast speed variations of the platter which, when picked up by the cartridge and passed through the system, sound to the human ear as oscillating pitch variations. A supposedly steady note with too much wow and flutter will sound like a meowing cat! The most relevant wow and flutter figure is not the average or wrms figure, but the peak value – the biggest fluctuation.

Rumble is the noise that the turntable makes. Most of the noise that a turntable makes comes from the spindle 'rumbling' in its bearing. This is mainly low frequency – infrabass – noise and can be measured either by taking everything below a certain frequency, or by taking a selected range of frequencies where rumble is most likely to occur – a weighted specification. The unweighted specification is more useful because any noise made by the turntable will have an audible effect.



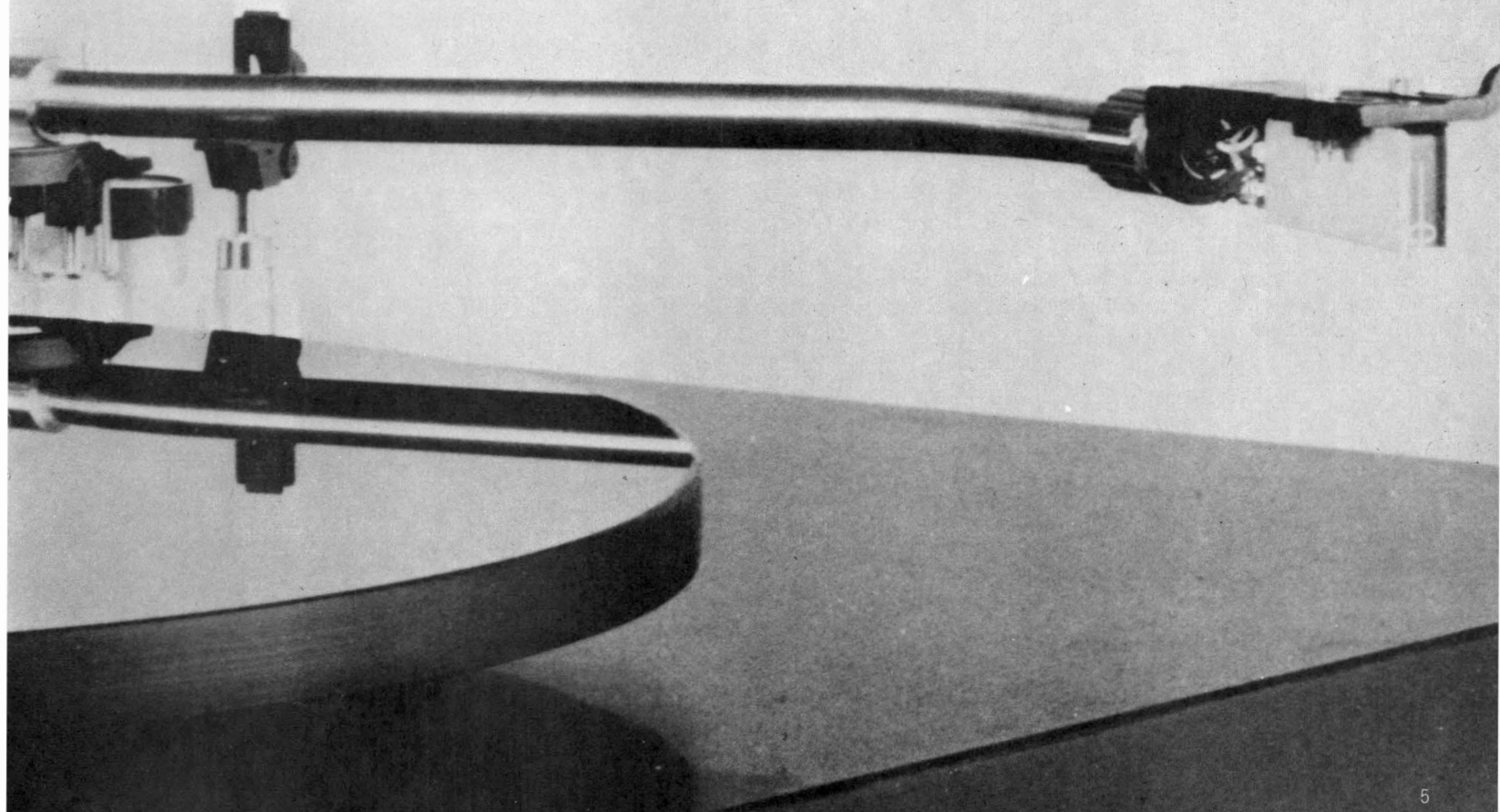


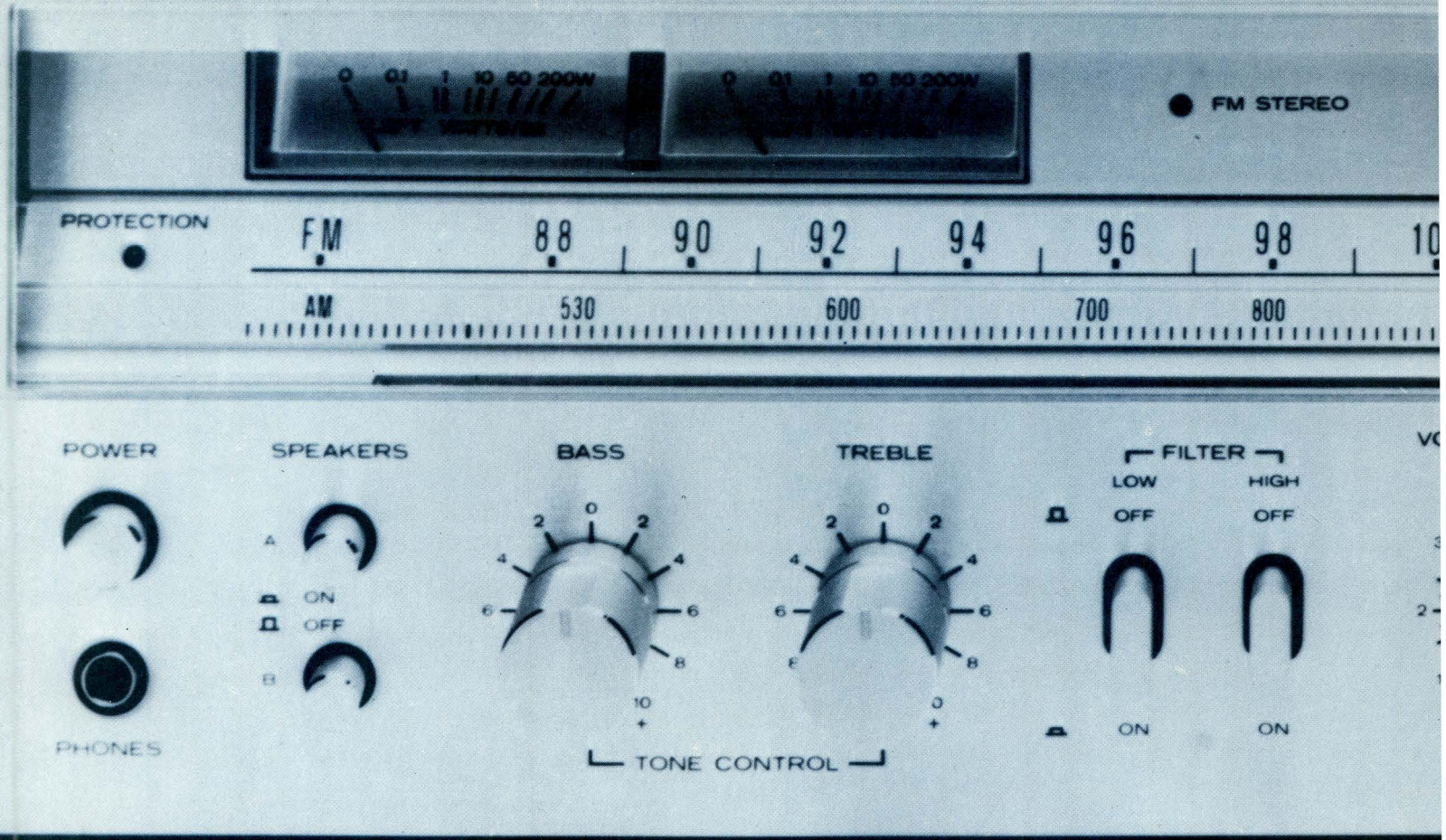
ARMS/CARTRIDGES

When choosing cartridges and arms, it is important to match two elements. The compliance of the cartridge must match the effective mass of the arm. As compliance – the ease with which the cartridge cantilever can be moved by a signal in the record groove – increases, so effective mass should decrease. A rough idea of each, but by no means a definitive one is that most moving-coil cartridges have a fairly low compliance – below 20 cus, while all other types included in the guide have a medium to high compliance. A low effective mass arm is less than 15 mg.

CASSETTE DECKS

Signal-to-noise ratio and wow and flutter specifications are measured in similar ways for both cassette decks and turntables. The unweighted specification is more important again. Frequency range or frequency response is also important. Beware of specifications which do not quote a tolerance in dB. The flatness of the response is as important as the absolute range itself. Metal-tape compatible cassette decks are worth considering as better value than others because metal-tape is (at least in theory) capable of superior performance as far as frequency response and dynamic range are concerned.





OPEN REEL DECKS

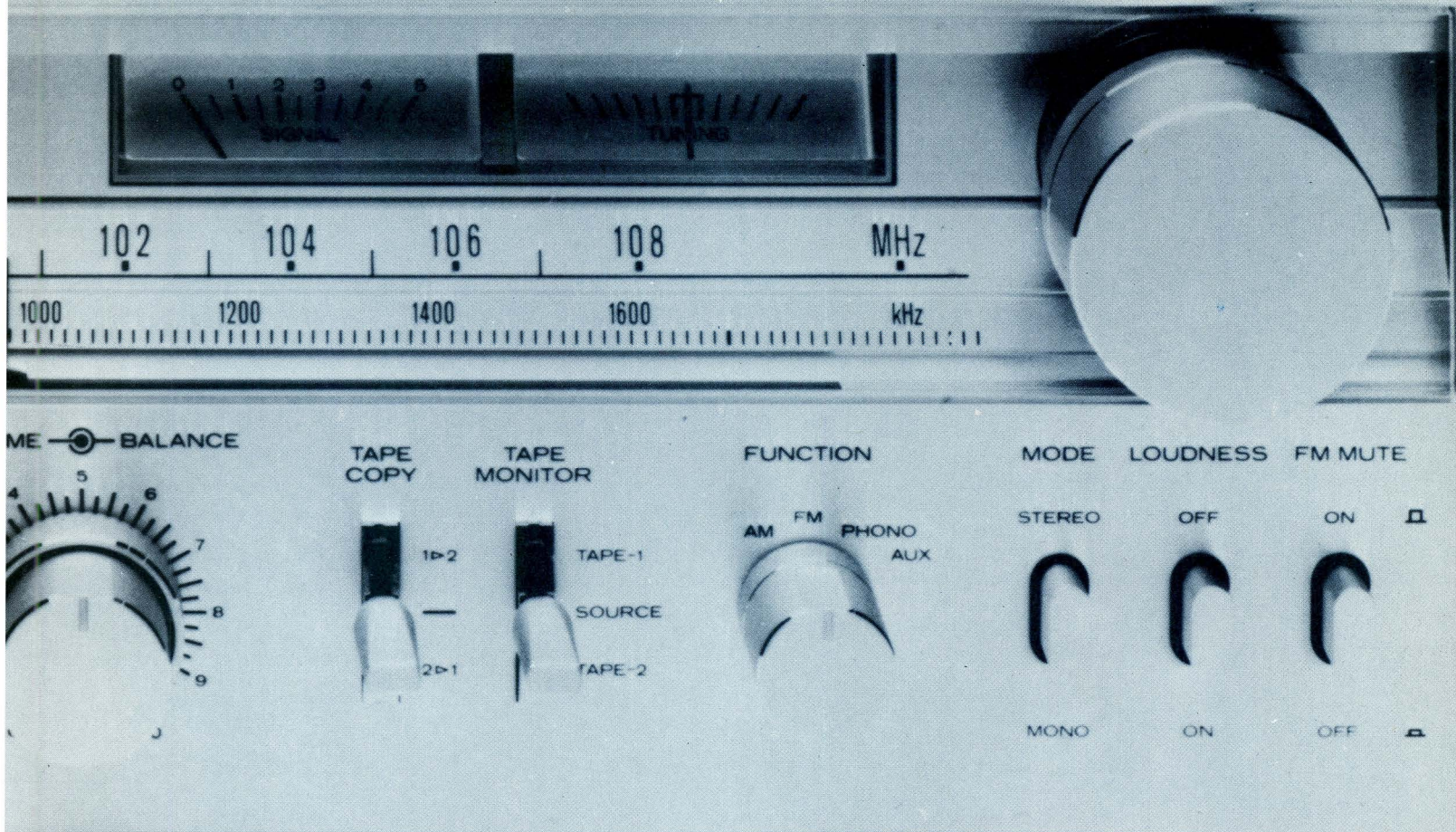
The important difference between open reel decks is the track system employed. Generally, $\frac{1}{2}$ track should perform better than $\frac{1}{4}$ track because the same width of tape is used for half the number of tracks. The disadvantage of $\frac{1}{2}$ track compared to $\frac{1}{4}$ track is that it allows recording and playback one way only, resulting in half as much recording. The four tracks of $\frac{1}{4}$ track involve two left/right channel pairs that can be used in opposite directions.

Open reel tape is theoretically capable of superior performance to cassette decks because the speed of the tape past the heads is higher with open reel. The fastest speed available with open reel is 38 cm/sec compared to 4.75 cm/sec for cassettes. Wow and flutter and signal-to-noise ratio vary according to tape-to-head speed, as does frequency response. All these performance parameters should reveal improvements with increased speed.



TUNERS

Most of the specifications for tuners involve tests that are measured in dB. These include alternate channel selectivity, spurious response ratio, image response ratio, IF response ratio, AM suppression, stereo separation – with all of these, the higher the figure the better the result. Sensitivity indicates the level of signal required for a given level of background hiss. The most useful method of measuring sensitivity is 50dB Quieting, and the measurement is taken in uV or dB, both of which indicate a good performance the lower they are. Frequency response of stereo tuners is limited by the stereo carrier frequency of 19 kHz which has to be filtered out by the tuner. The filtering process takes out frequencies immediately below this and most tuners do well to reach 15 kHz. Again it is important to look out for the tolerance specified for each tuner's frequency response. Of the few facilities found on tuners, the most useful are 'hi-blend', variable sensitivity and station presets.



AMPLIFIERS

High power output is always better than low power output and the traditional barrier is 15 watts rms per channel. The level of distortion should be as low as possible, but there are reasons for believing that intermodulation distortion, particularly transient intermodulation distortion is more relevant than total harmonic distortion. Both are specified.

LOUDSPEAKERS

Most of the specifications for loudspeakers are irrelevant to the subjective impression of performance and are mainly of academic interest; the number and type of drive units, number and type of crossover elements, and the method of bass loading, for example. Frequency response is still just about the most useful indication of a speaker's tonal balance, but phase coherence and dispersion are probably just as relevant. Many manufacturers do not quote for either of these parameters. But dispersion is more widely measured than phase changes, for which a standardized measurement has yet to be widely agreed. Prices quoted for loudspeakers are per pair.



SYSTEMS

The choice of systems was governed by our decision to include systems for several different applications. These include a music centre, rack systems and several disc-playing systems which represent outstanding value at different price levels.

GLOSSARY

In this section, abbreviations are defined and specifications are explained.

TURNTABLES

ADC 1600DD

Type: Autoreturn
Drive system: Direct to platter
Motor: Electronically controlled, 24 volt, 16 pole brushless DC
Speeds: 33 $\frac{1}{3}$, 45 rpm
Fine speed controls: User-variable, $\pm 3\%$
Rumble: 68 dB DIN B
Wow and flutter: 0.04% wrms
Platter: Die-cast aluminium, dynamically balanced, 302 mm dia, 1.04 kg weight
Anti-feedback mechanism: Moulded, sandwiched ABS/foam plinth and sprung, resonance-tuned feet
Tonearm
Type: Straight, statically balanced, aluminium
Effective length: 237 mm
Effective mass: Low
Overhang: 15 mm
Offset angle: 21°
Variable height: No
Headshell: Detachable, carbon fibre
Tracking weight range: 0–3.5 gm
Cartridge weight range: 5–9 gm
Cartridge supplied: ADC QLM 36 III
Size: 470×382×153 mm
Net weight: 7.25 kg
Miscellaneous: Gold-plated headshell leads. Bearing friction is 5 mg horizontal and 7 mg vertical
Typical UK price: £102
UK importer/distributor: Audio Dynamics Corporation, a division of BSR Ltd, Powke Lane, Cradley Heath, Warley, West Midlands B64 5QH

AIWA LP 3000

Type: Automatic
Drive system: Direct to platter
Motor: Pulse synthesizer quartz PLL servo
Speeds: 33 $\frac{1}{3}$, 45 rpm
Fine speed controls: Variable $\pm 6\%$
Rumble: 75 dB DIN B
Wow and flutter: 0.025% wrms
Platter: Die-cast zinc, 310 mm dia, 3.2 kg weight
Anti-feedback mechanism: Height adjustable insulator feet



ADC 1600 DC

Tonearm
Type: Straight, statically balanced, linear tracking
Effective length: 182 mm
Effective mass: Unspecified
Overhang: Unspecified
Offset angle: 0°
Variable height: Unspecified
Headshell: Detachable non-standard
Tracking weight range: 0–3 gm
Cartridge weight range: 4–24 gm, including headshell, and depending on headshell and sub-weight chosen
Cartridge supplied: No
Size: 480×150×439 mm
Net weight: 15.2 kg
Miscellaneous: Automatic play of up to 24 tracks in any order
Typical UK price: £623
UK importer/distributor: Aiwa Sales and Service (UK) Ltd, 30–32 Concord Road, Western Avenue, London W3 0TH

ARISTON RD 11S

Type: Non-integrated
Drive system: Belt to platter
Motor: 24 pole hysteresis synchronous
Speeds: 33 $\frac{1}{3}$, 45 rpm
Fine speed controls: Not manually variable
Rumble: 74 dB weighted
Wow and flutter: 0.03%
Platter: Two-piece precision ground and balanced, 3.54 kg
Anti-feedback mechanism: Armboard and platter mounted on sub-cradle supported by

steel coil springs with polyurethane dampers
Tonearm
 None supplied
Size: Unspecified
Net weight: 13 kg
Miscellaneous: Main bearing is precision PTFE, with teflon-cushioned, self-lubricating shaft
Typical UK price: £258
UK importer/distributor: Ariston Acoustics Ltd, Maybole, KA19 7BH, Scotland

B&O BEOGRAM 1500

Type: Automatic
Drive system: Belt to platter
Motor: Servo-controlled DC
Speeds: 33 $\frac{1}{3}$, 45 rpm
Fine speed controls: Automatic servo system
Rumble: 62 dB weighted, 42 dB unweighted
Wow and flutter: 0.09%
Platter: Unspecified
Anti-feedback mechanism: Pendulum spring suspension
Tonearm
Type: Straight, with built-in bias compensation
Effective length: Unspecified
Effective mass: Low
Overhang: Unspecified
Offset angle: Unspecified
Variable height: No
Headshell: Integrated with cartridge
Tracking weight range: 1.5 gm only
Cartridge weight range: Unspecified
Cartridge supplied: MMC 20 S



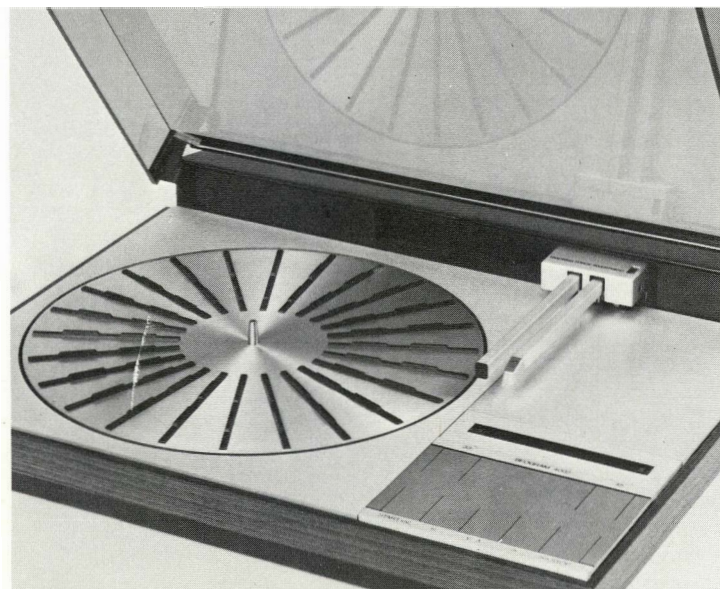
Aiwa LP 3000



B&O Beogram 1700



Ariston RD 11S



B&O Beogram 4002

Size: 440×85×330 mm
Net weight: 6. kg
Miscellaneous: Single button operation
Typical UK price: £116
UK importer/distributor: Bang & Olufsen UK Ltd, Eastbrook Road, Gloucester GL4 7DE

B&O BEOGRAM 1700

Type: Manual
Drive system: Belt to platter
Motor: Electronic servo DC tacho
Speeds: 33 $\frac{1}{3}$, 45 rpm
Fine speed controls: Automatic servo
Rumble: 62 dB weighted, 42 dB unweighted
Wow and flutter: 0.045% wrms
Platter: Unspecified
Anti-feedback mechanism: Pendulum spring suspension
Tonearm
Type: Straight with integrated bias, vertical knife-edge, horizontal ball bearings
Effective length: 229 mm
Effective mass: Low
Overhang: Unspecified
Offset angle: Unspecified
Variable height: No
Headshell: Integrated with cartridge
Tracking weight range: 2 gm only
Cartridge weight range: Unspecified
Cartridge supplied: MMC 20 S
Size: 440×85×330 mm
Net weight: 6 kg
Typical UK price:

Unspecified
UK importer/distributor: Bang & Olufsen UK Ltd, Eastbrook Road, Gloucester GL4 7DE

B&O BEOGRAM 4002

Type: Autostart with remote control option
Drive system: Belt to platter
Motor: DC servo controlled
Speeds: 33 $\frac{1}{3}$, 45 rpm
Speed controls: Automatic servo
Rumble: 65 dB weighted, 45 dB unweighted
Wow and flutter: 0.06% wrms
Platter: Unspecified
Anti-feedback mechanism: Pendulum spring suspension
Tonearm
Type: Straight, tangential tracking
Effective length: Unspecified
Effective mass: Unspecified
Overhang: Zero
Offset angle: 0°
Variable height: No
Headshell: Integrated
Tracking weight range: 1.2 gm only
Cartridge weight range: Unspecified
Cartridge supplied: MMC 20 EN
Size: 490×100×380 mm
Net weight: 11 kg
Typical UK price: £385
UK importer/distributor: Bang & Olufsen UK Ltd, Eastbrook Road, Gloucester GL4 7DE



Denon DP-2550

DENON DP-2550

Type: Non-integrated
Drive system: Direct to platter
Motor: AC servo motor
Speeds: 33 $\frac{1}{3}$, 45 rpm
Fine speed controls: Frequency detection servo system phase locked to a quartz crystal oscillation
Rumble: Over 75 dB (DIN B)
Wow and flutter: Less than 0.015% wrms
Platter: Die-cast aluminium alloy, 300 mm dia
Anti-feedback mechanism: Special rubber sheet mat to absorb acoustic feedback-induced vibrations in record. Development of mat involved laser holography
Tonearm: None supplied
Miscellaneous: Rapid start and stop. Plinth is vinyl veneered plywood
Typical UK price: £324
UK importer/distributor: Eumig (UK), 14 Priestley Way, London NW2 7TN

DUAL CS-506

Type: Autostop and autolift
Drive system: Belt to platter
Motor: 8 pole synchronous
Speeds: 33 $\frac{1}{3}$, 45 rpm
Fine speed controls: Variable by 6%
Rumble: 70 dB quiescent noise
Wow and flutter: \pm 0.04% wrms
Platter: 304 mm dia,

1.1 kg weight
Anti-feedback mechanism: Fully floating sprung sub-chassis
Tonearm: Straight, with gimbal bearings
Effective length: Unspecified
Effective mass: 7 gm
Overhang: Unspecified
Offset angle: Unspecified
Variable height: No
Headshell: Detachable, non-standard
Tracking weight range: Unspecified
Cartridge weight range: 5.5–10 gm
Cartridge supplied: Ultra-low mass Audio Technica
Size: 424×150×368 mm
Net weight: Unspecified
Typical UK price: £104
UK importer/distributor: Hayden Laboratories Ltd, Hayden House, Churchfield Road, Chalfont-St-Peter, Buckinghamshire SL9 9EW

DUAL CS-731Q

Type: Fully automatic
Drive system: Electronic, direct to platter
Motor: Quartz crystal PLL
Speeds: 33 $\frac{1}{3}$, 45 rpm
Fine speed controls: Variable \pm 5.5%
Rumble: Quiescent noise level 78 dB down
Wow and flutter: 0.015% wrms
Platter: 305 mm dia, 1.5 kg weight
Anti-feedback mechanism:



Dual CS-506



Dual CS-731Q

Fully floating sprung sub-chassis
Tonearm: Straight with gimbal bearings
Effective length: Unspecified
Effective mass: 8 gm
Overhang: Unspecified
Offset angle: Unspecified
Variable height: No
Headshell: Detachable, non-standard
Tracking weight range: Unspecified
Cartridge weight range: 2–9 gm
Cartridge supplied: Ultra-low mass Ortofon
Size: 424×150×390 mm
Net weight: Unspecified
Miscellaneous: Tunable anti-resonator counterbalance,

controls, LED fine speed variation readout front-mounted
Typical UK price: £310
UK importer/distributor: Hayden Laboratories Ltd, Hayden House, Churchfield Road, Chalfont-St-Peter, Buckinghamshire SL9 9EW

DUNLOP SYSTEMDEK

Type: Non-integrated
Drive system: Belt drive to platter
Motor: 24 pole synchronous
Speeds: 33 $\frac{1}{3}$, 45 rpm
Fine speed controls: None
Rumble: Unspecified
Wow and flutter: Unspecified
Platter: Aluminium,



Dunlop Systemdek



Garrard DD450

individually balanced, main bearing consisting 8 mm ball thrust seated in self-lubricating PTFE cup. Spindle is 10 mm dia stainless steel, 4.7 kg weight

Anti-feedback mechanism: Floating chassis adjustable from top. Plinth is constructed from highly damped materials

Tonearm

None supplied

Typical UK price:

Unspecified

UK importer/distributor:

Dunlop System Transcription
PO Box 9, Troon, Scotland

GARRARD DD450

Type: Semi-automatic

Drive system: Direct to

platter

Motor: Coreless DC

Speeds: 33 $\frac{1}{3}$, 45 rpm

Fine speed controls:

Variable $\pm 3\%$

Rumble: 70 dB DIN B,

50 dB DIN A

Wow and flutter: 0.06%

DIN slow weighted

Platter: Die-cast aluminium, 319 mm dia

Anti-feedback mechanism: Insulator feet

Tonearm

Type: 'S' shaped aluminium, with jewel/ball bearings

Effective length: 230 mm

Effective mass: 12 gm

Overhang: Unspecified

Offset angle: Unspecified

Variable height: No

Headshell: Detachable

Tracking weight range:



JVC QL-10

0.75 gm minimum

Cartridge weight range:

4–9 gm

Cartridge supplied: Shure/Ortofon optional

Size: 450×150×365 mm

Net weight: Unspecified

Miscellaneous: Front-

mounted controls

Typical UK price:

Unspecified

UK importer/distributor:

Garrard Ltd, Newcastle Street,
Swindon, Wiltshire

JVC QL-10

Type: Manual

Drive system: Direct to platter

Motor: Coreless DC servo, with integrated FG

Speeds: 33 $\frac{1}{3}$, 45 rpm

Fine speed controls:

± 6 Hz (standard 440 Hz)

Rumble: 80 dB DIN B

Wow and flutter:

0.02% wrms

Platter: Die-cast aluminium, 316 mm dia, 2 kg weight

Anti-feedback mechanism:

Insulator feet, high density plinth

Tonearm

Type: Statically balanced,

'S' shaped, with gimbal support on Tracing Hold System

Effective length: 245 mm

Effective mass: Unspecified

Overhang: 15 mm

Offset angle: Unspecified

Variable height: 40–60 mm

Headshell: Detachable

Tracking weight range:

0–3 gm

Cartridge weight range:

12–32 gm including headshell

Cartridge supplied: No

Size: 197×510×410 mm

Net weight: 19.5 gm

Miscellaneous: Variable Q oil-damped tonearm, electronic switching

Typical UK price: £698

UK importer/distributor:

JVC (UK) Ltd, Eldonwall
Trading Estate, Staples
Corner, 6–8 Priestley Way,
London NW2 7AF

LINN SONDEK LP 12

Type: Non-integrated

Drive system: Precision ground chloroprene rubber

4.7 mm square section, ground to within ± 0.001 thou, connected from motor to inner platter

Motor: Synchronous,

attached to, but partly isolated from, main base plate

Speeds: 33 $\frac{1}{3}$ rpm

Fine speed controls: None

Rumble: Better than –63 dB

unweighted

Wow and flutter:

Unspecified

Platter: Non-resonant alloy;

inner platter machined with bearing shaft attached; inner and outer platter weighing 4.1 kg

Anti-feedback mechanism:

Three-point sprung sub-chassis, and solid wood plinth

Tonearm

None supplied

Size: 450×360×140 mm

Net weight: Unspecified

Miscellaneous: Single

point hardened steel main bearing in oil-filled PTFE-lined housing. Felt mat supplied as standard, but rubber mat also available

Typical UK price: £350

UK importer/distributor:

Linn Products Ltd, Sondek Division, 235 Drakemire Drive, Glasgow G45 9SZ

LUX PD264R

Type: Autostop, autolift

Drive system: Direct to platter

Motor: DC servo brushless

Speeds: 33 $\frac{1}{3}$, 45 rpm

Fine speed controls:

Variable \pm 6%

Rumble: 60 dB IEC-B

Wow and flutter:

0.035% wrms

Platter: Die-cast aluminium, 300 mm dia, 1.8 kg weight

Anti-feedback mechanism:

Compliant feet, and solid plinth

Tonearm

Type: Straight, statically balanced

Effective length: 240 mm

Effective mass:

Unspecified

Overhang: 15 mm

Offset angle: Unspecified

Variable height: Yes

Headshell: Fixed

Tracking weight range:

0-3 gm

Cartridge weight range:

4-11 gm

Cartridge supplied: Dual magnet

Size: 438 \times 125 \times 365 mm

Net weight: 5.8 kg

Miscellaneous: High density platter mat inlaid to platter

Typical UK price: £120

UK importer/distributor:

Howland West Ltd, 3-5 Eden Grove, London N7 8EQ

LUX PD441

Type: Non-integrated

Drive system: Direct to platter

Motor: Crystal control, load-free-spindle system, flat brushless DC servo motor

Speeds: 33 $\frac{1}{3}$, 45 rpm

Fine speed controls:

Automatic servo

Rumble: 75 dB DIN B

Wow and flutter: 0.02%

Platter: Die-cast aluminium, 350 mm dia, 2.6 kg weight, 600 kg/sq cm moment of inertia

Anti-feedback mechanism:

300 mm dia, 2.5 kg weight

Anti-feedback mechanism:

Iron-plate/high density chipboard sandwich chassis, and low resonant frequency insulator feet

Tonearm

None supplied

Size: 474 \times 160 \times 392 mm

Net weight: 17 kg

Miscellaneous: Detachable die-cast arm base. High density platter mat

Typical UK price: £489

UK importer/distributor:

Howland West Ltd, 3-5 Eden Grove, London N7 8EQ

LUX PD444

Type: Non-integrated

Drive system: Direct to platter

Motor: Crystal control, load-free spindle system, float brushless DC servo motor

Speeds: 33 $\frac{1}{3}$, 45 rpm

Fine speed controls:

Automatic

Rumble: 75 dB

Wow and flutter:

0.025% wrms

Platter: Die-cast aluminium, 300 mm dia, 2.5 kg weight

Anti-feedback mechanism:

Low frequency two step barke spring/rubber/grease insulator feet, and heavy iron plate/chipboard chassis

Tonearm

None supplied

Size: 664 \times 160 \times 392 mm

Net weight: 22 kg

Miscellaneous: Facility for mounting two tonearms, on detachable die-cast zinc base. High density rubber mat inlaid to platter

Typical UK price: £523

UK importer/distributor:

Howland West Ltd, 3-5 Eden Grove, London N7 8EQ

MICRO-SEIKI DQX-500

Type: Manual

Drive system: Direct to platter

Motor: Quartz locked PLL DC servo motor

Speeds: 33 $\frac{1}{3}$, 45 rpm

Fine speed controls:

Automatic servo

Rumble: 75 dB DIN B

Wow and flutter: 0.02%

Platter: Die-cast aluminium, 350 mm dia, 2.6 kg weight, 600 kg/sq cm moment of inertia

Anti-feedback mechanism:

300 mm dia, 2.5 kg weight



Lux PD444

Anti-feedback mechanism:

Monocoque metal frame with three supporting legs

Tonearm

Type: Dynamically balanced, straight, aluminium alloy

Effective length: 237 mm

Effective mass: Variable by means of slider weight

Overhang: 15 mm

Offset angle: Unspecified

Variable height: 43-83 mm

Headshell: Detachable

Tracking weight range:

0-3 gm

Cartridge weight range:

4-12 gm

Cartridge supplied: No

Size: 410 \times 350 \times 139 mm

Net weight: 7 kg

Miscellaneous: Separate power transformer

Typical UK price: £299

UK importer/distributor:

Harman (Audio) UK Ltd, St Johns Road, Tylers Green, High Wycombe, Buckinghamshire HP10 8HR

MICRO-SEIKI DQX-1000

Type: Manual

Drive system: Direct to platter

Motor: Quartz locked PLL servo DC motor

Speeds: 33 $\frac{1}{3}$, 45 rpm

Fine speed controls:

Automatic, by servo

Rumble: 75 dB DIN B

Wow and flutter:

0.02% wrms

Platter: Aluminium, 350 mm dia, 2.6 kg weight, 600 kg/sq cm moment of inertia

Anti-feedback mechanism:

300 mm dia, 2.5 kg weight

Air suspension absorbers with adjustable height

Tonearm

Type: Dynamically balanced, 'S' shaped

Effective length: 237 mm

Effective mass: Unspecified

Overhang: 15 mm

Offset angle: Unspecified

Variable height:

Unspecified

Headshell: Detachable

Tracking weight range:

0-3 gm

Cartridge weight range:

13.5-32.5 gm including headshell

Cartridge supplied: No

Size: 500 \times 410 \times 175 mm

Net weight: 15 kg

Miscellaneous: Disc SE 22 mat, copper litz cartridge leadout wire, Neglex connecting leads, supplied as standard

Typical UK price: £469

UK importer/distributor:

Harman (Audio) UK Ltd, St John's Road, Tylers Green, High Wycombe, Buckinghamshire HP10 8HR

MICRO-SEIKI MB-14

Type: Autoreturn

Drive system: Belt to platter

Motor: 4 pole synchronous

Speeds: 33 $\frac{1}{3}$, 45 rpm

Fine speed controls: Not user-adjustable

Rumble: 65 dB DIN B

Wow and flutter:

0.055% wrms

Platter: Die-cast aluminium, 300 mm dia

Anti-feedback mechanism:

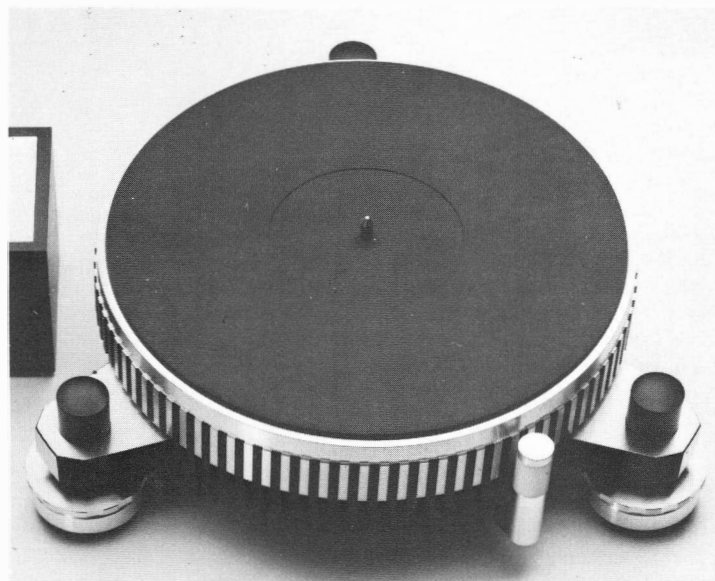
300 mm dia, 2.5 kg weight



Optonica RP7100



Micro-Seiki DQX-500



Micro-Seiki DQX-1000



Pioneer PL-512

High absorption rubber supports

Tonearm

Type: Statically balanced, 'S' shaped, low resonance alloy
Effective length: 214 mm
Effective mass: Unspecified
Overhang: 15 mm
Offset angle: Unspecified
Variable height: No
Headshell: Detachable
Tracking weight range: 0-3 gm
Cartridge weight range: Unspecified
Cartridge supplied: No
Size: 440×350×142 mm
Net weight: 6 kg
Typical UK price: £79
UK importer/distributor: Harman (Audio) UK Ltd, St John's Road, Tylers Green, High Wycombe, Buckinghamshire HP10 8HR

OPTONICA RP 7100

Type: Automatic
Drive system: Direct to platter
Motor: DC coreless, with FG servo control
Speeds: 33 $\frac{1}{3}$, 45 rpm
Fine speed controls: Variable independently for 33 $\frac{1}{3}$ and 45 rpm \pm 4%
Rumble: 68 dB DIN B
Wow and flutter: 0.03% wrms
Platter: Die-cast aluminium, 300 mm dia
Anti-feedback mechanism: Combined rubber/helical coil spring insulator feet
Tonearm
Type: Statically balanced, 'J'

shaped
Effective length: 210 mm
Effective mass: Unspecified
Overhang: 11 mm
Offset angle: 19°
Variable height: No
Headshell: Detachable, 8 gm weight
Tracking weight range: Unspecified
Cartridge weight range: 4-12 gm
Cartridge supplied: Unspecified
Size: 480×106×384 mm
Net weight: 8.5 kg
Miscellaneous: Dual arm system - inner arm carries Auto Program Locate Device infrared sensor to allow up to 7 tracks to be selected in any order
Typical UK price: £169
UK importer/distributor: Sharp Electronics (UK) Ltd, Sharp House, 107 Hulme Lane, Manchester M10 8HL

PIONEER PL-512

Type: Manual
Drive system: Belt
Motor: 4 pole synchronous
Speeds: 33 $\frac{1}{3}$, 45 rpm
Fine speed controls: None
Rumble: 65 dB DIN B weighted
Wow and flutter: \pm 0.06%
Platter: Die-cast alloy, 300 mm dia
Anti-feedback mechanism: Corrugated insulator feet and high-density particle-board plinth
Tonearm
Type: 'S' shaped



Pioneer PL-L1000

Effective length: 221 mm
Effective mass: Unspecified
Overhang: Unspecified
Offset angle: Unspecified
Variable height: No
Headshell: Detachable plastic
Tracking weight range: 0–3 gm
Cartridge weight range: 4–10 gm
Cartridge supplied: No
Size: 440×132×365 mm
Net weight: 6.5 kg
Typical UK price: £56
UK importer/distributor: Pioneer High Fidelity (GB) Ltd, The Ridgeway, Iver, Buckinghamshire SL0 9JL

PIONEER PL-L1000

Type: Fully automatic
Drive system: Direct to platter
Motor: Quartz PLL Hall motor
Speeds: 33 $\frac{1}{3}$, 45 rpm
Fine speed controls: Electronic
Rumble: 78 dB DIN B weighted
Wow and flutter: ±0.035%
Platter: Die-cast alloy, 310 mm dia
Anti-feedback mechanism: Coaxial suspension and plinth
Tonearm
Type: Straight, linear tracking
Effective length: 190 mm
Effective mass: Unspecified
Overhang: Unspecified
Offset angle: Unspecified
Variable height: ±3 mm
Headshell: Detachable

Tracking weight range: Unspecified
Cartridge weight range: 4–14.5 gm
Cartridge supplied: No
Size: 494×154×456 mm
Net weight: 12 kg
Miscellaneous: Zero tracking error, tangential-tracking tonearm controlled by linear motor. Front-operated controls
Typical UK price: £456
UK importer/distributor: Pioneer High Fidelity (GB) Ltd, The Ridgeway, Iver, Buckinghamshire SL0 9JL

REVOX B 790

Type: Fully automatic
Drive system: Direct to platter
Motor: Quartz locked 8 pole, with tachogenerator
Speeds: 33 $\frac{1}{3}$, 45 rpm
Fine speed controls: ±7% approx
Rumble: Better than 65 dB (measured with VMS 20E)
Wow and flutter: Better than 0.05% (weighted DIN 45 500)
Platter: 313 mm dia, 1.1 kg weight
Anti-feedback mechanism: Unspecified, but claimed to be extremely resistant to all forms of mechanical disturbance
Tonearm
Type: Tangential tracking by servo motor, pulley system
Effective length: 40 mm
Effective mass: Unspecified
Overhang: None
Offset angle: 0°



Sansui SR222 Mk II

Variable height: No
Headshell: None
Tracking weight range: 1–2 gm
Cartridge weight range: Unspecified. Three cartridge options are available – Ortofon VMS 20E, Ortofon M 20E Super or AKG P8ESR
Size: 452×142×382 mm
Net weight: 11 kg
Miscellaneous: Main idea of tangential tracking is to duplicate the passage of the record cutting head and thereby eliminate lateral tracking error
Typical UK price: £454
UK importer/distributor: FWO Bauch Ltd, 49 Theobald Street, Boreham Wood, Hertfordshire WD6 4RZ

SANSUI SR222 MkII

Type: Manual
Drive system: Belt to platter
Motor: 4 pole synchronous AC
Speeds: 33 $\frac{1}{3}$, 45 rpm
Fine speed controls: Not user-adjustable
Rumble: 68 dB DIN B
Wow and flutter: 0.045% wrms
Platter: Die-cast aluminium alloy, 300 mm dia
Anti-feedback mechanism: Four compliant feet, and chipboard plinth
Tonearm
Type: Statically balanced, 'S' shaped
Effective length: 220 mm
Effective mass: Unspecified
Overhang: 17.5 mm
Offset angle: Unspecified

Variable height: No
Headshell: Detachable
Tracking weight range: 0–2.75 gm
Cartridge weight range: 4–10 gm
Cartridge supplied: No
Size: 452×139×370 mm
Net weight: 6 kg
Typical UK price: £65
UK importer/distributor: Sansui Audio Europe NV, Unit 10A, Lyon Industrial Estate, Rockware Avenue, Greenford, Middlesex UB6 0AA

SANSUI XR-Q9

Type: Fully automatic
Drive system: Direct to platter
Motor: 20 pole, 30 slot, brushless DC for platter, separate computer-controlled motor for tonearm
Speeds: 33 $\frac{1}{3}$, 45 rpm
Fine speed controls: Unspecified
Rumble: 78 dB (DIN B)
Wow and flutter: 0.018% wrms
Platter: Unspecified
Anti-feedback mechanism: Dyna Optimum balanced tonearm and floating sub-base structure
Tonearm
Type: Straight with offset headshell, and with separate motor for auto function
Cartridge supplied: No
Miscellaneous: Magnetic pattern detection quartz servo system designed to stabilize speed. Light touch, front-operation controls



Revox B 790

Typical UK price:

Unspecified

UK importer/distributor:

Sansui Audio Europe NV,
Unit 10A, Lyon Industrial
Estate, Rockware Avenue,
Greenford, Middlesex

SONY PSB80

Type: Fully automatic

Drive system: Direct to platter

Motor: Linear BSL (brushless, slotless) DC servo

Speeds: 33 $\frac{1}{3}$, 45 rpm

Fine speed controls: Fixed

Rumble: 78 dB DIN

Wow and flutter:

0.02% wrms, \pm 0.04% DIN

Platter: Unspecified

Anti-feedback mechanism:

Unspecified

Tonearm

Type: 'J' shaped electronically controlled Biotracer

Effective length: 325 mm

Effective mass: Unspecified

Overhang: Unspecified

Offset angle: Unspecified

Variable height: Unspecified

Headshell: 11 gm weight

Tracking weight range: 0.5–3 gm

Cartridge: 12–31 gm with headshell (depending on counterweight chosen)

Cartridge supplied: No

Size: 500×175×430 mm

Net weight: 15 kg

Miscellaneous: Internal computer automatically maintains bias, and tracking force senses record size and its memory allows automatic selection of and/or repeat of

any passage of pre-selected length

Typical UK price: £853

UK importer/distributor:

Sony UK, Pyrene House,
Sunbury on Thames

STD 305 S

Type: Non-integrated (no arm supplied)

Drive system: Belt to platter

Motor: AC synchronous

Speeds: 33 $\frac{1}{3}$, 45 rpm

Fine speed controls: None

Rumble: –70 dB DIN B weighted

Wow and flutter: 0.06% DIN peak, 0.03% wrms

Platter: 300 mm dia accurately machined from solid aluminium plate with bonded, variable density mat to reduce platter ringing and air resonance between platter and record

Anti-feedback mechanism: Sprung sub-chassis

Typical UK price: £150

UK importer/distributor:

C W & J Walker Ltd,
Brentwood, Red Lane,
Frodsham, Warrington
WA6 6RA

TECHNICS SL-10

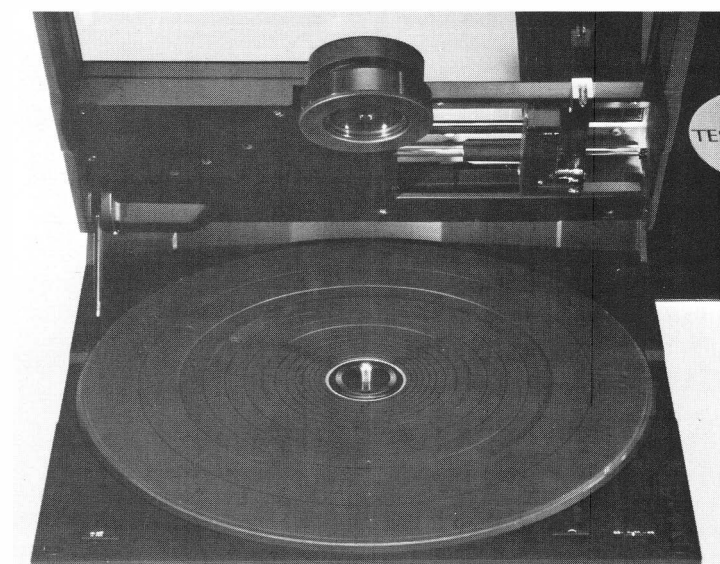
Type: Fully automatic

Drive system: Direct to platter

Motor: Ultra-low speed brushless DC with quartz phase-locked control

Speeds: 33 $\frac{1}{3}$, 45 rpm

Fine speed controls: Not



Technics SL-10

manually variable

Rumble: 78 dB DIN B (IEC 98A weighted), 56 dB DIN A (IEC 98A unweighted)

Wow and flutter:

0.025% wrms (JIS C 5521)

Platter: Die-cast aluminium, 300 mm dia

Anti-feedback mechanism: Unspecified

Tonearm

Type: Tangential tracking, attached to turntable lid

Effective length: 105 mm

Effective mass: 9 gm including cartridge supplied

Overhang: Unspecified

Offset angle: 0°

Variable height: No

Headshell: Unspecified

Tracking weight range: 1–1.5 gm

Cartridge weight range: Designed to suit supplied cartridge such that resonant frequency of arm/cartridge is 12 Hz

Cartridge supplied: Technics moving coil cartridge featuring pure boron pipe cantilever

Size: 315×315×88 mm

Net weight: 6.5 kg

Miscellaneous: Opto-electronic sensor automatically senses correct speed, where to drop stylus, and controls all subsequent arm operations once lid is manually closed. Electronic muting circuit instantly cuts off signal at the moment stylus leaves record surface. 'Forward' and 'backward' search system for selecting required record tracks. Integrated moving coil head amplifier to boost low (0.2 mV for 5 cm/sec at

1 kHz) output from supplied cartridge

Typical UK price: £333

UK importer/distributor:

Panasonic (UK) Ltd, 107–109
Whitby Road, Slough,
Berkshire SL1 3DR

TECHNICS SLQ3

Type: Fully automatic

Drive system: Direct to platter

Motor: Ultra-low speed DC brushless, quartz phase

Speeds: 33 $\frac{1}{3}$, 45 rpm

Fine speed controls: Not manually variable

Rumble: 78 dB DIN B (IEC 98A unweighted), 56 dB

DIN A (IEC 98A unweighted)

Wow and flutter:

0.025% wrms (JIS C5521)

Platter: Die-cast aluminium, 312 mm dia

Anti-feedback mechanism: Die-cast aluminium turntable base, Technics Non-Resonant Compound inner base

Tonearm

Type: Statically balanced, 'S' shaped with gimbal suspension

Effective length: 230 mm

Effective mass: Low

Overhang: 15 mm

Offset angle: 22°

Variable height: No

Headshell: Detachable, with gold-plated contact pins for cartridge

Tracking weight range: 0–2.5 gm

Cartridge weight range: Unspecified

Cartridge supplied:



Technics SLQ3 (see previous page)

Technics EPC-207 C moving magnet type
Size: 430×130×375 mm
Net weight: 7.1 kg
Miscellaneous: Front-mounted controls
Typical UK price: £166
UK importer/distributor: Panasonic (UK) Ltd, 107-109 Whitby Road, Slough, Berkshire SL1 3DR

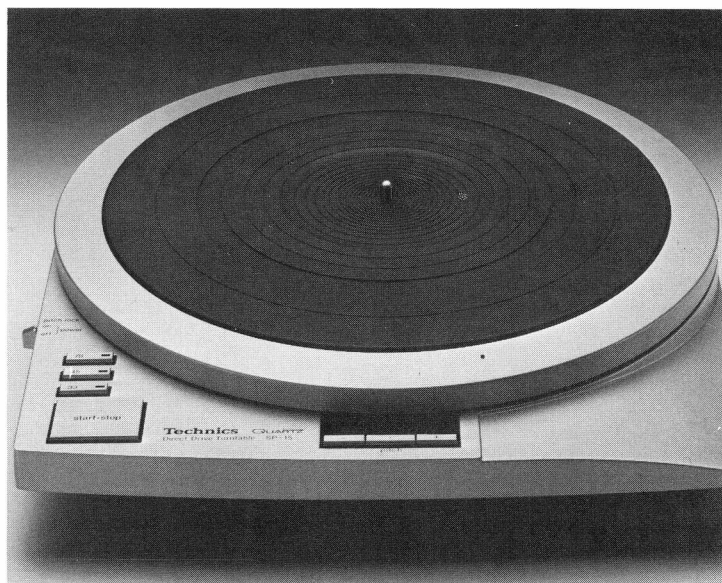
TECHNICS SP-15

Type: Non-integrated
Drive system: Direct to platter
Motor: High 3 kg/cm torque heteropole ultra-low noise brushless DC
Speeds: 33 $\frac{1}{3}$, 45, 78 rpm
Fine speed controls: Variable $\pm 9.9\%$ in 0.1% steps
Rumble: 78 dB DIN B (IEC 98A weighted), 56 dB DIN A (IEC 98A unweighted)
Wow and flutter: 0.025% wrms
Platter: Die-cast aluminium, triple-deadened by special rubber matting fitted to top, bottom and rim, 339 mm dia
Anti-feedback mechanism: Three complementary anti-resonance systems, Technics Non-Resonant Compound in main base, and precision die-cast aluminium inner base
Tonearm
 None supplied
Cartridge supplied: No
Size: 349×93×372 mm
Net weight: 6.2 kg
Miscellaneous: Pulsed power supply, pitch lock mechanism, LED readout of

rotational speed
Typical UK price: £315
UK importer/distributor: Panasonic (UK) Ltd, 107-109 Whitby Road, Slough, Berkshire SL1 3DR

THORENS TD 115

Type: Autostop, autolift
Drive system: Belt to platter
Motor: Servo controlled DC with 72 pole tachogenerator
Speeds: 33 $\frac{1}{3}$, 45 rpm
Fine speed controls: Automatic pitch control allows $\pm 6\%$
Rumble: -68 dB DIN 45539
Wow and flutter: 0.05% DIN 45507
Platter: Zinc alloy, dynamically balanced, 300 mm dia, 1.3 kg weight
Anti-feedback mechanism: Ortho-inertial floating suspension
Tonearm
Type: Straight with jewel bearings
Effective length: 222 mm
Effective mass: 7.5 gm
Overhang: 15.5 mm
Offset angle: 23°
Variable height: No
Headshell: Detachable arm tube
Tracking weight range: Unspecified
Cartridge weight range: Unspecified
Cartridge supplied: No
Size: 445×355×130 mm
Net weight: 7 kg
Miscellaneous: Opto-electronic circuitry triggers motor shut-off and arm-lift at



Technics SP-15



Trio L-07D

end of record
Typical UK price: £150
UK importer/distributor: Metrosound Audio Products Ltd, Freedex House, 4/10 North Road, London N7 9HN

THORENS TD 126 III

Type: Autostop, autolift
Drive system: Belt to platter
Motor: Servo-controlled electronic, DC with 72 pole tachogenerator
Speeds: 33 $\frac{1}{3}$, 45 rpm
Fine speed controls: Automatic pitch control allows $\pm 6\%$
Rumble: -72 dB DIN 45539
Wow and flutter: 0.04% DIN 45507

Platter: Zinc alloy, dynamically balanced, 300 mm dia, 2.15 kg weight
Anti-feedback mechanism: Platter and tonearm mounted on secondary chassis suspended by springs from main chassis carrying motor
Tonearm
Type: Straight
Effective length: 230 mm
Effective mass: 7.5 gm
Overhang: 14.4 mm
Offset angle: 22°
Variable height: No
Headshell: Detachable armtube
Tracking weight range: Unspecified
Cartridge weight range: Unspecified
Cartridge supplied: No
Size: 505×395×170 mm



Thorens TD 115



Thorens TD 126 III

Net weight: 14 kg
Miscellaneous: Electronic circuit triggers motor shut-off and arm lift at end of record
Typical UK price: £290
UK importer/distributor: MetroSound Audio Products Ltd, Freedex House, 4/10 North Road, London N7 9HN

THORENS TD 160 BC II

Type: Transcription, non-integrated
Drive system: Belt to platter
Motor: 16 pole two phase synchronous, with slip clutch for instantaneous start
Speeds: 33 $\frac{1}{3}$, 45 rpm
Fine speed controls: Not user-adjustable
Rumble: -65 dB DIN 45539

weighted
Wow and flutter: 0.06%
Platter: Zinc alloy, dynamically balanced, 300 mm dia, 3.2 kg weight
Anti-feedback mechanism: Motor, armboard and platter mounted on secondary chassis suspended from main chassis by springs. Sprung feet
Tonearm
Type: Cutout for SME-type arm mounting
Size: 430×360×150 mm
Net weight: Unspecified
Miscellaneous: Conversion kit available for fitting Hadcock GH 228 arm. Blank boards suitable for cutting to fit other arms are available
Typical UK price: £105
UK importer/distributor: MetroSound Audio Products



Thorens TD160 BC II

Ltd, Freedex House, 4/10 North Road, London N7 9HN

TRIO L-07D

Type: Manual
Drive system: Direct to platter
Motor: Coreless and slotless DC servo (2.5 kg/cm starting torque) with Quartz PLL
Speeds: 33 $\frac{1}{3}$, 45 rpm
Fine speed controls: Automatic
Rumble: Better than 94 dB DIN weighted, or 55 dB DIN unweighted
Wow and flutter: Less than ±0.032% DIN, less than 0.02% wrms
Platter: 330 mm dia die-cast aluminium alloy laminated with duraluminium, 5.5 kg weight includes non-magnetized stainless turntable sheet
Anti-feedback mechanism: High mass plinth, high mass/inertia platter
Tonearm
Type: Static-balance, triple laminated tube
Effective length: 245 mm
Effective mass: Unspecified
Overhang: 15 mm
Offset angle: Unspecified
Variable height: Within 7 mm (in 1 mm steps by Helicoid Fixture)
Headshell: Detachable
Tracking weight range: 0-2 gm
Cartridge weight range: 1 to 22 gm (two counter-balances available)

Cartridge supplied: No
Size: 555×160×470 mm
Net weight: 31 kg
Miscellaneous: Separate control unit (size 130×110×356 mm, weight 4.3 kg)
Typical UK price: £1000
UK importer/distributor: B H Morris & Co Ltd, Precision Centre, Heather Park Drive, Wembley, Middlesex

ARMS

AUDIO TECHNICA AT1100

Effective length: 240 mm
Effective mass: 9.5 gm
Overhang: Unspecified
Offset angle: Unspecified
Maximum tracking error: -1.5°

Arm height: Variable
Cartridge weight range: 4-11 gm
Tracking weight range: 0-1.6 gm

Bearing type: Unspecified (produces no more than 10 mg lateral friction)

Headshell: Arm tube/headshell detachable as integral unit

Arm tube: Straight with offset headshell

Turntable attachment: 23 mm dia hole

Arm damping: Yes (either on or off)

Bias type: Unspecified
Counterweight: Unspecified
Net weight: Unspecified
Miscellaneous: Dynamic Tracing System puts arm pivot at same level as stylus tip by raising the arm tube

Typical UK price: £174
UK importer/distributor: Audio Technica Ltd, Hunslet Trading Estate, Low Road, Leeds LS10 1BL

DYNAVECTOR DV505

Effective length: 241 mm
Effective mass: High mass main arm, low mass sub-arm
Overhang: 15 mm
Offset angle: 21.5°

Maximum tracking error: Unspecified
Arm height: Variable from 38-70 mm

Cartridge weight range: 9-35 gm including standard EIA headshell

Tracking weight range: Unspecified

Bearing type: Dual pivot; high mass main arm moves only in horizontal plane, low mass sub-arm moves only in vertical plane

Headshell: Detachable

Arm tube: Two arm tubes

Turntable attachment: Either free standing on solid horizontal surface of turntable or screwed to arm board by four screws

Arm damping: Electromagnetic, by means of curved rod which generates

eddy currents on detection of arm resonance. Eddy current interaction with permanent magnets' magnetic field returns system to rest state

Bias type: Unspecified
Counterweight: Dial mounted on sub-arm pivot

Net weight: Unspecified

Miscellaneous: Dynamic damping by subsidiary vibrating bob weight in 'U' shaped main arm cancels arm resonance by anti-phase resonance due to precisely calculated mass of spring bob weight

Typical UK price: £256
UK importer/distributor: Condor Electronics Ltd, 100 Coombe Lane, London SW20 0AY

HADCOCK GH 228 SUPER

Effective length: Variable due to adjustable headshell position

Effective mass: Very low

Overhang: Unspecified

Offset angle: Unspecified

Maximum tracking error: Unspecified

Arm height: Variable

Cartridge weight range: 3-12 gm

Tracking weight range: Sufficient for all cartridges in the above weight range

Bearing type: Stainless steel precision ball bearing unipivot

Bearing friction: Unspecified, but very low

Headshell: Precision aluminium casting designed for maximum rigidity and strength

Arm tube: Hollow aluminium tube

Turntable attachment: Alternative brass nut screwed on to arm pillar, or 'S' type base plate at extra cost designed for turntables fitted with SME cutouts

Arm damping: Silicone fluid manually inserted to arm collar, variable in height

Bias type: Adjustable pulley/weight

Counterweight: Double decoupled, eccentric

Net weight: Unspecified

Miscellaneous: A detachable top-arm version is also available at extra cost. This is the GH 228 Super 'D'. A Hadcock GH 228 'E' is also available. This arm has a

concentric counterbalance and two lateral outrigger weights for balancing

Typical UK price: £59

UK importer/distributor: G F C Hadcock, Audio Division, The Old Vicarage, Doveridge, Derby DE6 5NN

LUSTRE GST801

Effective length: 240 mm
Effective mass: Unspecified (medium mass)

Overhang: Unspecified

Offset angle: Unspecified

Maximum tracking error: 1.1 (internal grooves), 2 (outer grooves)

Arm height: Variable by helical screw on main-arm pillar

Cartridge weight range: 13.5-28 gm (including headshell)

Tracking weight range: 0-2.5 gm

Bearing type: Unspecified (produces 20 mg lateral friction)

Headshell: Magnesium alloy

Arm tube: 'S' shaped

Turntable attachment: 38 mm hole

Arm damping: Mechanical, by convoluted polymer inner arm tube

Bias type: Magnetic repulsion system (same mechanism for playing weight adjustment)

Counterweight: 2 weights for different cartridge weights

Net weight: Unspecified

Typical UK price: £151

UK importer/distributor: Phoenix Controls Ltd, PO Box 5, Southend on Sea, Essex

MAYWARE FORMULA 4 Mk III

Effective length: 229 mm

Effective mass: Variable to suit any cartridge (8.35 gm with Mayware MC02C VTF2)

Overhang: 4-5 mm adjustment

Offset angle: 23° 31'

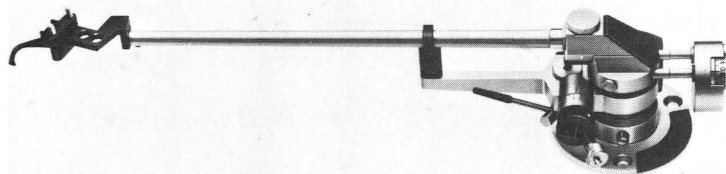
Maximum tracking error: Unspecified (optimized for LP record playing)

Arm height: Adjustable

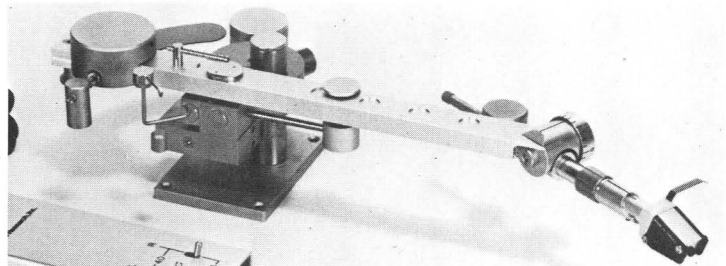
Cartridge weight range: 2-11 gm

Tracking weight range: Unspecified

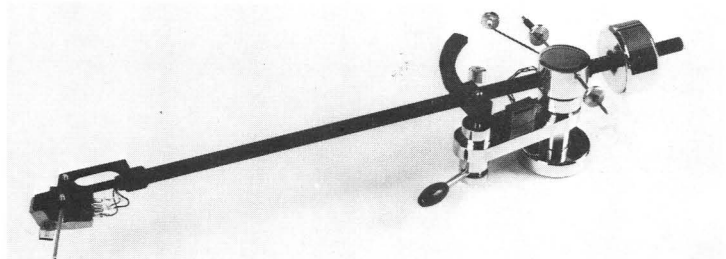
Bearing type: Unipivot.



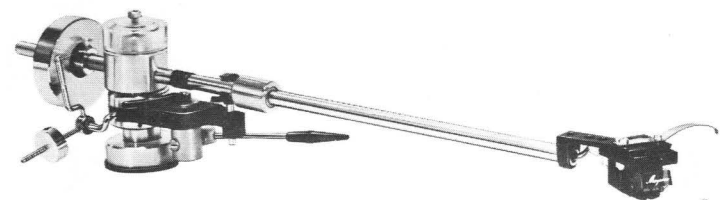
Audio Technica AT1100



Dynavector DV505



Hadcock GH228 Super



Mayware Formula 4 Mk III



SME Series IIIS

consisting of inverted steel pin pivoting on jewelled bearing, developing 5 mg friction

Headshell: Removable 'easi-sight'

Arm tube: Straight (material unspecified)

Turntable attachment:

Accessories such as an adaptor plate for SME cutout or Thorens TD 160 kit available; 25 mm mounting hole required

Arm damping: Viscous silicone fluid

Bias type: Adjustable by means of thread and outrigger weight; weight may be removed for ultra-light cartridges

Counterweight: Unspecified

Net weight: Unspecified

Miscellaneous: Extra strong leadout wires. Audio lead capacitance approx 112 pF

Typical UK price: £75

UK importer/distributor: Mayware Ltd, PO Box 58, Edgware, Middlesex HA8 9UH

PIONEER PA5000

Effective length: 250 mm

Effective mass: Unspecified

Overhang: 14 mm

Offset angle: 20° 13'

Maximum tracking error: Unspecified

Arm height: Helicoid arm height adjustment

Cartridge weight range: Unspecified

Tracking weight range: 0–3 gm

Bearing type: Gimballed suspension

Headshell: Lightweight magnesium alloy

Arm tube: Lightweight aluminium alloy

Turntable attachment: Unspecified

Arm damping: Dynamic absorber weight inside counterbalance applies a 'brake' to tonearm acceleration on warped or uncentred records; a spring and concentric rubber washers are connected to the weight providing its support; stainless steel stranded wires couple the weight to the arm

Bias type: Unspecified

Counterweight: Dynamic damping type

Net weight: Unspecified

Typical UK price:

Unspecified

UK importer/distributor: Pioneer High Fidelity (GB) Ltd, The Ridgeway, Iver, Buckinghamshire SL0 9JL

SME SERIES IIIS

Effective length: 229 mm

Effective mass: Unspecified

Overhang: Unspecified

Offset angle: Unspecified

Maximum tracking error: Unspecified

Arm height: Variable by 22.3 mm

Cartridge weight range: 0–13.5 gm

Tracking weight range: 0–2.5 gm

Bearing type: High precision fully protected ball races for vertical axis, knife edges for horizontal axis

Headshell: Attached to removable arm tube

Arm tube: 'S' shaped nitrogen-hardened titanium

Turntable attachment: Four wood screws through base plate into arm board; mounting template, alignment protractor, screws etc provided

Arm damping: SME Fluid Damper FD 200 is extra accessory suitable for some cartridges with high Q resonant frequency when inserted into SME arm. SME Series III arm is a more complex version of the IIIS supplied with Fluid Damper FD200 as standard

Bias type: Thread, weight, pulley system

Counterweight: Variable mass for different cartridges

Net weight: Unspecified (790 gm gross)

Miscellaneous: Gold-plated contacts. Total capacitance of arm/phono leads is 293 pF

Typical UK price: £78

UK importer/distributor: SME Ltd, Steyning, Sussex BN4 3GY

TECHNICS EPA 100

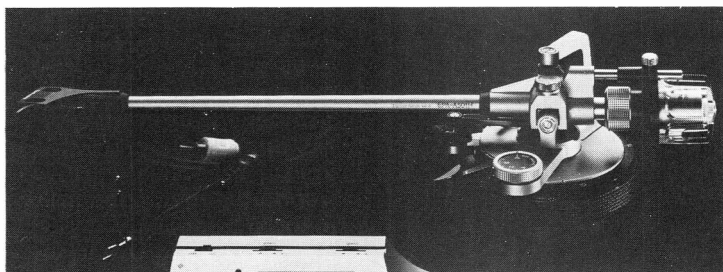
Effective length: 250 mm

Effective mass: 22 gm with cartridge weighing 6.5 gm at 1.25 gm tracking force

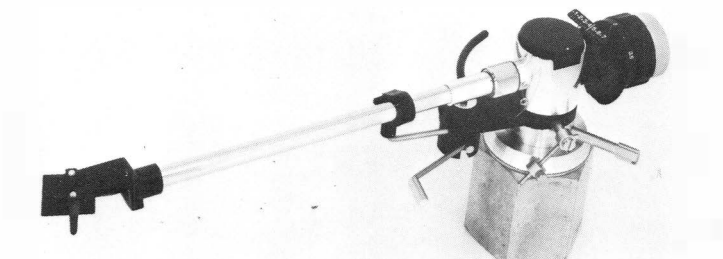
Overhang: 15 mm

Offset angle: Unspecified

Maximum tracking error: +1.1 at inner groove, +2.1 at outer groove of LP record



Technics EPA 100



Ultracraft

Arm height: Variable by helicoid mount by 6 mm, total range 42–90 mm
Cartridge weight range: 5–10 gm
Tracking weight range: 0–3 gm
Bearing type: Gimbal suspension with 20 precision ruby bearings, resulting in 5 mg friction in both lateral and vertical planes
Headshell: 9.5 gm, detachable
Arm tube: Nitrogen-hardened titanium tubular
Turntable attachment: Unspecified
Arm damping: 5 selectable positions for different cartridge compliances; main compliance range considered, 15 cu or more, 10–15 cu, less than 10 cu
Bias type: Variable
Counterweight: Contains direct readout of arm resonance Q, determined by damping device inside counterweight; ideally Q of resonance should be below 6
Net weight: Unspecified
Typical UK price: £180
UK importer/distributor: Panasonic (UK) Ltd, 107–109 Whitby Road, Slough, Berkshire SL1 3DR

ULTRACRAFT AC-300 Mk II

Effective length: 237 mm
Effective mass: Unspecified
Overhang: 15 mm
Offset angle: Unspecified
Maximum tracking error: Unspecified, minimum error is

0 at inner grooves
Arm height: Variable by arm centre shaft locking knob
Cartridge weight range: 5.5–15 gm
Tracking weight range: 0–3 gm in 0.25 increments
Bearing type: Hemispherical damping ball jewelled unipivot
Headshell: Non-detachable, hard aluminium designed for rigidity. Finger-lift is also aluminium
Arm tube: Brass pipe, tapered to reduce resonance and improve sound
Turntable attachment: Nut locks on to arm base
Arm damping: Damping ball and oil cup provides viscous damping for arm bearing
Bias type: String and counterweight system
Counterweight: Concentric main counterweight; lateral balance of unipivot arm is by two lateral adjustment knobs
Net weight: Unspecified
Miscellaneous: The viscous damping system is continuously adjustable, by means of a rotating knob at the top of the centre block above the pivot
Typical UK price: Unspecified
UK importer/distributor: J Osawa & Co (UK) Ltd, 10 Forge Court, Reading Road, Yateley, Camberley, Surrey HU17 7RX

CARTRIDGES

ADC QLM36 IMPROVED

Type: Induced magnet
Output voltage: 6.05 mV per 5 cm per sec
Frequency response: 15 Hz–20 kHz±2 dB
Crosstalk: 24 dB at 1 kHz, 15 dB at 10 kHz
Compliance: 32 cu
Tracking weight range: 0.9–1.5 gm
Cantilever: Unspecified
Stylus: Diamond
Stylus attachment: Diasa
Stylus tip shape: Elliptical
Stylus tip size: 0.7×0.3 mil
Inductance: 580 mH
Recommended resistive load: 47 kohms
Recommended capacitive load: 275 pF
Weight: 5.75 gm
Miscellaneous: A diasas stone is one in which the diamond stylus tip is mounted on to the cantilever by means of a sapphire bushing
Typical UK price: £18
UK importer/distributor: Audio Dynamics Corporation, Powke Lane, Cradley Heath, Warley, West Midlands B64 5QH

ADC VLM IMPROVED

Type: Induced magnet
Output voltage: 6.05 mV per 5.5 cm per sec
Frequency response: 15 Hz–24 kHz ±2 dB
Crosstalk: 26 dB at 1 kHz, 15 dB at 10 kHz
Compliance: 32 cu
Tracking weight range: 0.9–1.5 gm
Cantilever: Unspecified
Stylus: Diamond
Stylus attachment: Nude
Stylus tip shape: Elliptical
Stylus tip size: 0.7×0.3 mil
Inductance: 580 mV
Recommended resistive load: 47 kohms
Recommended capacitive load: 275 pF
Weight: 5.75 gm
Typical UK price: £26
UK importer/distributor: Audio Dynamics Corporation, Powke Lane, Cradley Heath, Warley, West Midlands B64 5QH

ADC ZLM IMPROVED

Type: Induced magnet

Output voltage: 1 mV per cm per sec

Frequency response:

10 Hz–20 kHz ± 1 dB

Crosstalk: 30 dB at 1 kHz, 26 dB at 10 kHz

Compliance: Unspecified

Tracking weight range: 0.75–1.25 gm

Cantilever: Unspecified

Stylus: Diamond

Stylus attachment: Nude

Stylus tip shape: Aليptic

Stylus tip size: Unspecified

Inductance: 560 mH

Recommended resistive load: 47 kohms

Recommended capacitive load: 275 pF

Weight: 5.75 gm

Miscellaneous: Aليptic stylus tip is a multi-radius, large-area-of-contact shape featured only on the ZLM and ZLM Improved cartridges

Typical UK price: £61

UK importer/distributor: Audio Dynamics Corporation, Powke Lane, Cradley Heath, Warley, West Midlands B64 5QH

AKG P 6E

Type: Moving iron

Output voltage: 6.25 mV

Frequency response:

20 Hz–20 kHz

Crosstalk: 25 dB at 1 kHz, 15 dB at 10 kHz

Compliance: 20 cu

Tracking weight range: 2.5 gm recommended

Cantilever: Ultra lightweight aluminium alloy tube

Stylus: Diamond

Stylus attachment:

Cemented to cantilever

Stylus tip shape: Elliptical

Stylus tip size: 0.4×0.8 mil

Impedance: 860 ohms

Inductance: 280 mH

Recommended resistive load: 47 kohms

Recommended capacitive load: 470 pF

Weight: 5.86 gm

Miscellaneous: AKG's patented TS (Transversal Suspension) System is used – a vulcanized rubber compound suspension forms a knife-edge type bearing for cantilever held symmetrically in centre of thin metal plate

Typical UK price: £22

UK importer/distributor: AKG Acoustics Ltd, 191 The Vale, London W3 7QS

AKG P 8ES

Type: Moving Iron

Output voltage: 3.75 mV

Frequency response:

10 Hz–28 kHz

Crosstalk: 30 dB at 1 kHz, 25 dB at 10 kHz

Compliance: 35 cu

Tracking weight range: 0.75–1.25 gm

Cantilever: Ultra lightweight aluminium alloy tube

Stylus: Diamond

Stylus attachment: Nude

Stylus tip shape: Elliptical

Stylus tip size: 0.2×0.7 mil

Impedance: 860 ohms

Inductance: 280 mH

Recommended resistive load: 47 kohms

Recommended capacitive load: 470 pF

Weight: 5.86 gm

Miscellaneous: AKG's patented TS (Transversal Suspension) system is used – vulcanized rubber compound suspension forms knife-edge type bearing for cantilever, which is held symmetrically in centre of thin metal plate

Typical UK price: £71

UK importer/distributor: AKG Acoustics Ltd, 191 The Vale, London W3 7QS

CORAL 777EX

Type: Moving coil

Output voltage: 0.3 mV per 5 cm per sec

Frequency response:

5 Hz–40 kHz

Crosstalk: 34 dB

Compliance: 15 cu

Tracking weight range: 1.3–2.3 gm

Cantilever: Unspecified

Stylus: Diamond

Stylus attachment:

Unspecified

Stylus tip shape: Elliptical

Stylus tip size: 0.2×0.8 mil

Inductance: Unspecified

Recommended resistive load: 47 kohms

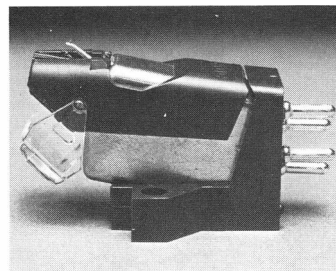
Recommended capacitive load: Unspecified

Weight: 5.5 gm

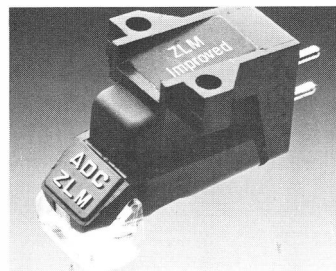
Miscellaneous: Designed to work with T100 transformer which produces 26 dB gain and has a frequency response of 5 Hz±50 kHz

Typical UK price: £35

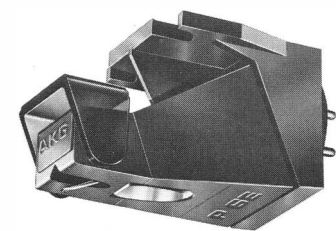
UK importer/distributor: Videotone Ltd, 98 Crofton Park Road, London SE4



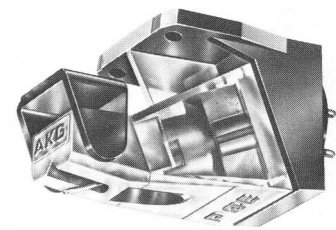
ADC VLM Improved



ADC ZLM Improved



AKG P 6E



AKG P 8E



Dynavecator 10X

DYNAVECTOR 10X

Type: Moving coil

Output voltage: 1.8 mV

Frequency response:

20 Hz–20 kHz

Crosstalk: Over 20 dB

Compliance: 15 cu

Tracking weight range: 1.5 gm recommended

Cantilever: Tapered aluminium

Stylus: Diamond

Stylus attachment:

Unspecified

Stylus tip shape: Elliptical

Stylus tip size: Unspecified

Impedance: 200 ohms

Inductance: 0.4 mH

Recommended resistive load: Unspecified

Recommended capacitive load: Unspecified

Weight: 9.5 gm

Miscellaneous:

Superpermalloy armature

Typical UK price: £56

UK importer/distributor:

Condor Electronics Ltd, 100

Coombe Lane, London

SW20 0AY

DYNAVECTOR 20B

Type: Moving coil

Output voltage: 3.6 mV

Frequency response:

20 Hz–20 kHz

Crosstalk: Over 20 dB

Compliance: 24 cu

Tracking weight range:

1.8 gm recommended

Cantilever: Straight solid

beryllium

Stylus: Diamond

Stylus attachment:

Unspecified

Stylus tip shape: Elliptical

Stylus tip size: 0.3×0.7 mil

Stylus tip mass:

Unspecified

Impedance: 510 ohms

Inductance: 1 mH

Recommended resistive load: Unspecified

Recommended capacitive load: Unspecified

Weight: 5.3 gm

Typical UK price: £107

UK importer/distributor:

Condor Electronics Ltd, 100

Coombe Lane, London

SW20 0AY

DYNAVECTOR KARAT

Type: Moving coil

Output voltage: 0.2 mV

Frequency response:

20 Hz–50 kHz

Crosstalk: Over 20 dB

Compliance: 15 cu

Tracking weight range:

1.2–2.5 gm

Cantilever: Oblique cut

solid ruby

Stylus: 0.24×2.8 mil low-

mass diamond

Stylus attachment:

Electric discharge, laser-drilled cantilever

Stylus tip shape: Line contact

Stylus tip size: 0.24×2.8 mil

Impedance: 30 ohms

Inductance: 80 uH

Recommended resistive load: Unspecified

Recommended capacitive load: Unspecified

Weight: 5.3 gm

Miscellaneous: Vertical tracking angle: 20° super-permalloy armature

Typical UK price: £100

UK importer/distributor: Condor Electronics Ltd, 100 Coombe Lane, London SW20 0AY

E EI 555

Type: Moving coil

Output voltage: 0.125 mV per 3.54 cm per second rms

Frequency response: 10 Hz–20 kHz –3 dB+1 dB

Crosstalk: 20 dB minimum at 1 kHz

Compliance: 8 cu

Tracking weight range: 1.8–2.2 gm optimum

(0–50° Celsius)

Cantilever: Double-structured low-mass titanium

Stylus: Diamond

Stylus attachment: Nude

Stylus tip shape: Elliptical

Stylus tip size: 0.5×0.8 mil

Impedance: 3 ohms at 1 kHz

Inductance: Unspecified

Recommended resistive load: Unspecified

Recommended capacitive load: Unspecified

Weight: 7.1 gm

Typical UK price: £101

UK importer/distributor: Elite Electronics, 33 Station Avenue, Walton-on-Thames, Surrey KT12 1NF

GOLDRING G900 1GC

Type: Magnetic

Output: 4.5 mV rms±1.5 dB per 5 cm per sec

Frequency response: 10 Hz–28 kHz

Crosstalk: 25 dB nominal at 1 kHz

Compliance: 40 cu

Tracking weight range: 0.75–1.5 gm

Cantilever: Hard aluminium alloy tube

Stylus: Diamond

Stylus attachment: Nude

Stylus tip shape: Van den Hul (large area of contact)

Stylus tip size: 3×0.17 mil

Inductance: 570 mH

Recommended resistance: 47 kohms

Recommended capacitive load: 150–200 pF

Weight: 4 gm

Miscellaneous: Vertical tracking angle is 24°. Minor radius is less than 0.2 mil which creates a Gothic Arch shape when stylus tip is viewed from front or rear, and this shape is claimed to give greater groove contact than conventionally shaped tips

Typical UK price: £60

UK importer/distributor: Goldring Products Ltd, Anglian Lane, Bury St Edmunds, IP32 6SS

GOLDRING G900 SE/2

Type: Magnetic

Output voltage: 4.5 mV ±1.5 dB per 5 cm per sec rms

Frequency response: 10 Hz–28 kHz

Crosstalk: 25 dB at 1 kHz

Compliance: 40 cu

Tracking weight range: 0.75–1.5 gm

Cantilever: Hard aluminium tube

Stylus: Diamond

Stylus attachment: Nude

Stylus tip shape: Elliptical

Stylus tip size: 0.7×0.2 mil

Inductance: Unspecified

Recommended resistive load: 47 kohms

Recommended capacitive load: 150–200 pF

Weight: 4 gm

Miscellaneous: Dynamic mass of stylus assembly is 32 mg; this includes the ultra-thin-walled hard aluminium tube cantilever

Typical UK price: £40

UK importer/distributor: Goldring Products Ltd, Anglian Lane, Bury St Edmunds IP32 6SS

GOLDRING G950

Type: Magnetic

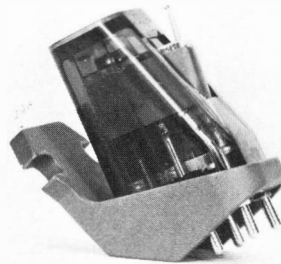
Output voltage: 6mV per 5 cm per sec

Frequency response: 20 Hz–20 kHz

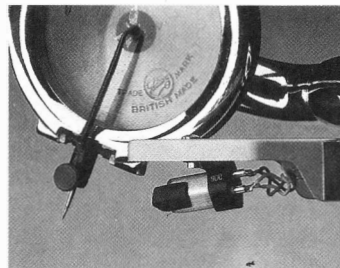
Crosstalk: 20 dB at 1 kHz

Compliance: Unspecified

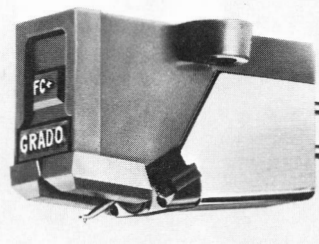
Tracking weight range:



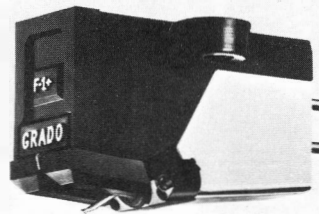
Dynavector Karat



Goldring G900 SE/2



Grado FCE+1



Grado F1+

1.5–5 gm

Cantilever: Unspecified

Stylus: Unspecified

Stylus attachment: Unspecified

Stylus tip shape: Spherical

Stylus tip size: 0.6 mil radius

Inductance: Unspecified

Recommended resistive load: 47 kohms

Recommended capacitive load: Unspecified

Weight: 4 gm

Miscellaneous: The cartridge is Goldring's most recent introduction, designed to suit a wide range of tonearms from lightweight to autochange-type

Typical UK price: £10

UK importer/distributor:

Goldring Products Ltd, Anglian Lane, Bury St Edmunds, IP32 6SS

GRADO FCE+1

Type: Moving iron, Flux Bridger

Output voltage: 3 mV per 3.54 cm per sec at 1 kHz

Frequency response: 10 Hz–30 kHz ±2 dB

Crosstalk: 20 dB average

Compliance: 15 cu

Tracking weight range: 1.75–2.25 gm

Cantilever: Aluminium

Stylus: Diamond

Stylus attachment: Unspecified

Stylus tip shape: Elliptical

Stylus tip size: 0.7×0.3 mil

Impedance: 700 ohms

Inductance: 55 mH

Recommended resistive load: 10–100 kohms

Recommended capacitive load: Insensitive

Weight: 4.5 gm

Miscellaneous: Flux Bridger principle is claimed to reduce magnetic distortion to a minimum because the moving iron armature needs to move only fractionally between the operating gaps of the 'C' magnets

Typical UK price: £14

UK importer/distributor: Transonic Imports (Acoustical) Ltd, Brooks Court, Stamford, Lincolnshire

GRADO F1+

Type: Moving iron, Flux Bridger

Output voltage: 3mV

Frequency response: 10 Hz–30 kHz±1.5 dB

Crosstalk: 25 dB average

Compliance: 15 cu

Tracking weight range: 1.5–2 gm

Cantilever: Aluminium

Stylus: Diamond

Stylus attachment: Nude

Stylus tip shape: Multi-radius

Stylus tip size: Unspecified

Impedance: 700 ohms

Inductance: 55 mH

Recommended resistive load: 10–100 kohms

Recommended capacitive load: Insensitive

Weight: 4.5 gm

Miscellaneous: Grado's patented Flux Bridger

principle is claimed to reduce magnetic distortion to a minimum because the moving iron armature needs to move only fractionally between operating gaps of the 'C' magnets

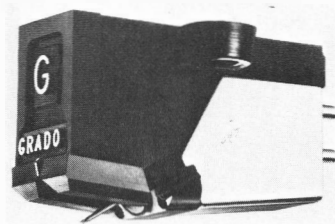
Typical UK price: £43
UK importer/distributor:
 Transonic Imports (Acoustical) Ltd, Brooks Court, Stamford, Lincolnshire

GRADO G2+

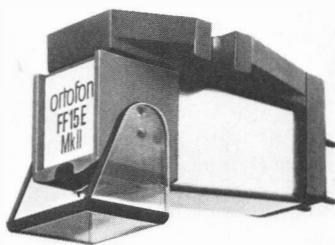
Type: Moving iron, Flux Bridger
Output voltage: 3mV
Frequency response: 10–30 kHz±1.5 dB
Crosstalk: 25 dB average
Compliance: 15 cu
Tracking weight range: 1.5–1.75 gm
Cantilever: Aluminium
Stylus: Diamond
Stylus attachment: Unspecified
Stylus tip shape: Twin-tip
Stylus tip size: Two quarter spheres of 0.25 mil radius
Impedance: 700 ohms
Inductance: 55 mH
Recommended resistive load: 10–100 kohms
Recommended capacitive load: Insensitive
Weight: 4.5 gm
Miscellaneous: Minute spherical contact points for the two record groove walls are claimed to give extra high frequency detail, reduce groove alignment inaccuracy and loss of azimuth. Flux Bridger is Grado's patented principle which is claimed to reduce armature movement and thence reduce magnetic distortion
Typical UK price: £132
UK importer/distributor:
 Transonic Imports (Acoustical) Ltd, Brooks Court, Stamford, Lincolnshire

ORTOFON FF15E Mk II

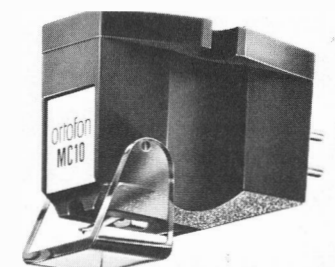
Type: Variable magnetic flux
Output voltage: 1 mV per cm per sec at 1 kHz
Frequency response: 20 Hz–20 kHz
Crosstalk: 20 dB at 1 kHz
Compliance: 20 cu
Tracking weight range: 2 gm recommended, 3 gm maximum



Grado G2+



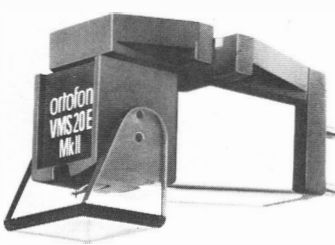
Ortofon FF15E Mk II



Ortofon MC10



Ortofon MC30



Ortofon VMS20E Mk II

Cantilever: Aluminium alloy
Stylus: Diamond
Stylus attachment: Unspecified
Stylus tip shape: Elliptical
Stylus tip size: 0.7×0.3 mil
Inductance: 600 mH
Recommended resistive load: 47 kohms
Recommended capacitive load: 400 pF

Weight: 5 gm
Miscellaneous: Designed for turntables with relatively high mass tonearms
Typical UK price: £15
UK importer/distributor:
 Harman (Audio) UK Ltd, St John's Road, Tylers Green, Buckinghamshire HP10 8HR

ORTOFON MC10

Type: Moving coil
Output voltage: 0.1 mV
Frequency response: 10 Hz–20 kHz+3 dB, –2 dB
Crosstalk: 22 dB
Compliance: 15 cu
Tracking weight range: 1.7–2.3 gm
Cantilever: Aluminium alloy
Stylus: Diamond
Stylus attachment: Unspecified
Stylus tip shape: Elliptical
Stylus tip size: 0.7×0.3 mil
Inductance: Unspecified
Recommended resistive load: Unspecified
Recommended capacitive load: Unspecified
Weight: 7 gm
Miscellaneous: Gold-plated terminal pins
Typical UK price: £46
UK importer/distributor:
 Harman (Audio) UK Ltd, St John's Road, Tylers Green, Buckinghamshire HP10 8HR

ORTOFON MC30

Type: Moving coil
Output voltage: 80 mV
Frequency response: 20 Hz–20 kHz±1 dB
Crosstalk: 25 dB minimum at 1 kHz, 20 dB minimum at 15 kHz
Compliance: 13 cu
Tracking weight range: 1.5 gm recommended
Cantilever: Aluminium alloy tube
Stylus: Diamond
Stylus attachment: Nude
Stylus tip shape: Quadratic, axially oriented, fine line
Stylus tip size: 0.45 mil dia
Impedance: 20–100 ohms
Inductance: Unspecified
Recommended resistive load: Unspecified
Recommended capacitive load: Unspecified
Weight: 7 gm
Miscellaneous: Ortofon's patented WRD (wide range

damping) system provides low and high frequency damping for the cantilever, by means of a two-layer rubber compound with platinum disc in between to act as a 'brake'.

Typical UK price: £65
UK importer/distributor:
 Harman (Audio) UK Ltd, St John's Road, Tylers Green, Buckinghamshire HP10 8HR

ORTOFON VMS20E Mk II

Type: Variable Magnetic Shunt (Moving magnet)
Output voltage: 1 mV per cm per sec at 1 kHz
Frequency response: 20 Hz–20 kHz
Crosstalk: 25 dB at 1 kHz
Compliance: 30 cu
Tracking weight range: 1 gm recommended, 2 gm maximum
Cantilever: Aluminium alloy
Stylus: Diamond
Stylus attachment: Nude
Stylus tip shape: Elliptical
Stylus tip size: 0.7×0.3 mil
Inductance: 600 mH
Recommended resistive load: 47 kohms
Recommended capacitive load: 400 pF
Weight: 5 gm
Miscellaneous: Variable Magnetic Shunt is Ortofon's patented moving iron system in which a lightweight iron armature, behind a rubber damping bearing, and centrally positioned within a ring magnet (when 'in neutral') cuts the ring magnet's flux between the magnet and coils wound round the magnet's pole pieces in order to generate a signal voltage
Typical UK price: £30
UK importer/distributor:
 Harman (Audio) UK Ltd, St John's Road, Tylers Green, Buckinghamshire HP10 8HR

SATIN M117ZE

Type: Moving coil
Output voltage: 3 mV±2 dB at 1 kHz per 5 cm per sec
Frequency response: 20 Hz–22 kHz
Crosstalk: 22 dB
Compliance: 12 cu
Tracking weight range: 1–2 gm
Cantilever: Aluminium alloy
Stylus: Diamond

Stylus attachment:

Unspecified

Stylus tip shape: Elliptical

Impedance: 40 ohms

Inductance: Unspecified

Recommended resistive

load: Unspecified

Recommended capacitive

load: Unspecified

Weight: 9.2 gm

Miscellaneous: Stylus is removable, a rare feature for a moving coil cartridge

Typical UK price: £60

UK importer/distributor:

J Osawa & Co (UK) Ltd,
10 Forge Court, Reading
Road, Yateley, Camberley,
Surrey GU17 7RX

SHURE M75EDII

Type: Moving magnet

Output voltage: 1mV per
cm per sec at 1 kHz

Frequency response:

20 Hz–20 kHz

Crosstalk: 25 dB at 1 kHz

Compliance: Unspecified

Tracking weight range:

0.75–1.5 gm

Cantilever: Unspecified

Stylus: Diamond

Stylus attachment:

Unspecified

Stylus tip size: Elliptical

Stylus tip size: 0.7×0.2 mil

Inductance: Unspecified

Recommended resistive

load: 47 kohms

Recommended capacitive

load: Unspecified

Miscellaneous:

Trackability at 1 gm in SME

3009 arm measured at

400 Hz is 22 cm per sec, at

1 kHz is 33 cm per sec, at

5 kHz is 28 cm per sec, and

at 10 kHz is 19 cm per sec.

These measurements indicate
how fast the stylus can

accurately trace grooves of

varying frequencies ranging

from 400 Hz to 10 kHz

Typical UK price: £16

UK importer/distributor:

Shure Electronics Ltd,
Ecclestone Road, Maidstone,
Kent ME15 6AU

SHURE V15 Type IV

Type: Moving magnet

Stereo Dynetic

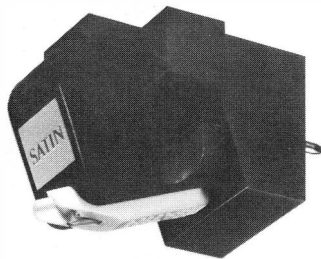
Output voltage: 0.8 mV at

1 cm per sec

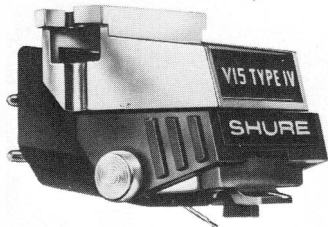
Frequency response:

10 Hz–25 kHz

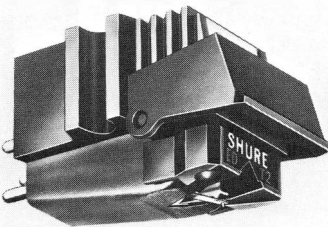
Crosstalk: Better than 25 dB



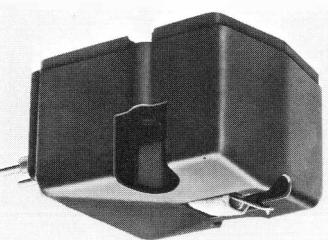
Satin M117ZE



Shure V15 Type IV



Shure M75EDII



Westrak 501E

Compliance: Unspecified,
but trackability at 1 gm in
SME arm is 29 cm/sec at
400 Hz, and 47 cm/sec at
5 kHz

Tracking weight range:
0.75–1.25 gm

Cantilever: Heat-treated
aluminium alloy

Stylus: Diamond

Stylus attachment: Nude

Stylus tip shape:

Hyperelliptical

Stylus tip size: Unspecified

Inductance: 500 mH
nominal

Recommended resistive

load: 47 kohms

Recommended capacitive

load: Unspecified

Weight: 6 gm

Miscellaneous: Integral

dynamic stabilizer

Typical UK price: £66

UK importer/distributor:

Shure Electronics Ltd,
Ecclestone Road, Maidstone,
Kent ME15 6AU

WESTRAK 501E

Type: Moving coil

Output voltage: 3.5 mV

Frequency response:

18 Hz–22 kHz±2 bB

Crosstalk: Over 20 dB

Compliance: 9 cu

Tracking weight range:

1.2–2.4 gm

Cantilever: Alloy

Stylus: Diamond

Stylus attachment: Bonded
to metal shank

Stylus tip shape: Elliptical

Stylus tip size: 0.3×0.8 mil

Impedance: 80 ohms

Inductance: Unspecified

Recommended resistive

load: 47 kohms

Recommended capacitive

load: Unspecified

Weight: 5 gm

Miscellaneous: Alternative

stylus tip is available –

Westrak 501PH has nude-

mounted particular rectangular

stylus tip but is otherwise

identical to Westrak 501E

Typical UK price: £92

UK importer/distributor:

Howland West, 3–5 Eden
Grove, London N7 8EQ

WESTRAK C101/E

Type: Moving magnet

Output voltage: 4 mV per
5 cm/sec

Frequency response:

15 Hz–25 kHz

Crosstalk: 28 dB

Compliance: 18 cu

Tracking weight range:

1–2 gm

Cantilever: Alloy

Stylus: Diamond

Stylus attachment:

Unspecified

Stylus tip shape: Elliptical

Stylus tip size: 0.2×0.8 mil

Stylus tip mass:

Unspecified

Impedance: 3.5 kohms

Inductance: Unspecified

Recommended resistive

load: 47–100 kohms

Weight: 6 gm

Miscellaneous: Suitable for
wide range of arms

Typical UK price: £14

UK importer/distributor:

Howland West Ltd, 3–5 Eden
Grove, London N7 8EQ

CASSETTE DECKS

AIWA AD-2000

Metal-tape facility: No
Heads: Ultra-hard permalloy record/playback and erase heads

Motor: DC servo motor
Noise reduction: Dolby
Frequency response:
 LH tape: 30 Hz–12.5 kHz (DIN); CrO₂ tape: 30 Hz–16 kHz (DIN); FeCrO₂ tape: 30 Hz–16 kHz (DIN)

Wow and flutter:
 0.08% wrms; 0.19% DIN
Signal-to-noise ratio:
 58 dB (Dolby on, FeCr tape)

Fast forward/rewind:
 85 sec for C60 tape

Meter type: 12 point fluorescent peak left and right channel (–20 to +7 dB)

Special features: Fine bias adjustment by ±20% for LH tape; top-loading machine

Height: 145 mm

Width: 388 mm

Depth: 275 mm

Net weight: 4.5 kg

Typical UK price: £150

UK importer/distributor:
 Aiwa Sales and Service (UK) Ltd, 30–32 Concorde Road, Western Avenue, London W3 0TH

AIWA AD-L40

Metal-tape facility: Yes
Heads: 2, Sendust Guard record/playback head, high-bias double gap ferrite erase head

Motor: DC servo motor
Noise reduction: Dolby and mpx filter, switchable

Frequency response:
 With recording level set at –20VU. LH tape: 30 Hz–13 kHz (+2 dB –3 dB); CrO₂ tape: 30 Hz–15 kHz (+2 dB –3 dB); Metal tape: 30 Hz–17 kHz (+2 dB –3 dB)

Wow and flutter:
 0.04% wrms; 0.1% DIN

Signal-to-noise ratio:
 65 dB (Dolby on, FeCr tape)

Fast forward/rewind:
 90 sec

Meter type: 20 point LED for left/right channels, switchable from peak to VU

Height: 150 mm

Width: 420 mm

Depth: 290 mm

Net weight: 6.9 kg

Typical UK price: £150

UK importer/distributor:

Aiwa Sales and Service (UK) Ltd, 30–32 Concorde Road, Western Avenue, London W3 0TH

AIWA AD-M700

Metal-tape facility: Yes

Heads: 3, Sendust Guard record/playback head, high-bias double gap erase head

Motor: DC servo motor and DC motor

Noise reduction: Dolby and mpx filter

Frequency response:

LH tape: 30 Hz–13 kHz (+2 dB, –3 dB); CrO₂ tape: 30 Hz–15 kHz (+2 dB, –3 dB); Metal tape: 30 Hz–17 kHz (+2 dB, –3 dB)

Wow and flutter:
 0.04% wrms; 0.1% DIN

Signal-to-noise ratio:
 65 dB (Dolby on, measured using FeCr tape); 62 dB (DIN Dolby on, measured using FeCr tape)

Fast forward/rewind:
 90 sec

Meter type: VU left/right, plus 5 point LED peak indicator

Special features: Soft touch logic control operation; fine bias adjustment; record mute switch

Height: 120 mm

Width: 450 mm

Depth: 270 mm

Net weight: 7 kg

Typical UK price: £250

UK importer/distributor:
 Aiwa Sales and Service (UK) Ltd, 30–32 Concorde Road, Western Avenue, London W3 0TH

DUAL C839 RC

Metal-tape facility: Yes

Heads: Sendust

Motor: 2, dual capstan drive by precision DC motors in closed lock loop

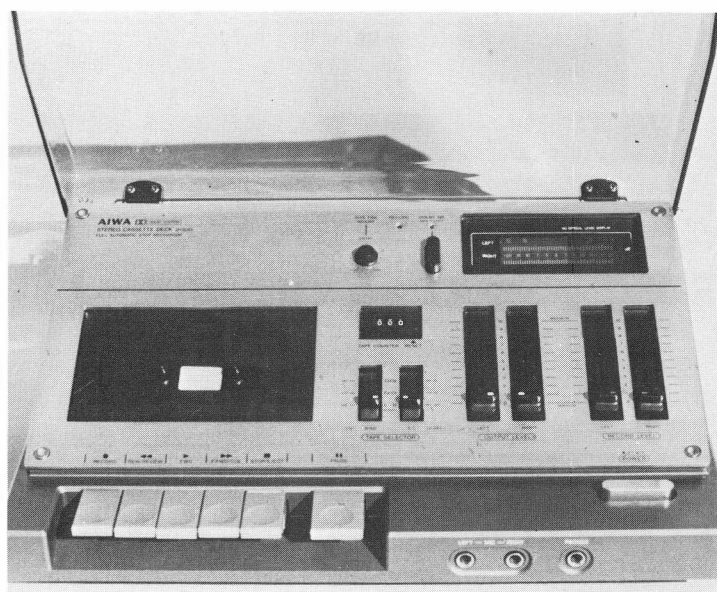
Noise reduction: Dolby and mpx

Frequency response:

LH tape: 30 Hz–18 kHz; CrO₂ tape: 30 Hz–19 kHz; Metal tape: 30 Hz–20 kHz

Wow and flutter:
 0.03% wrms; 0.06% DIN replay; 0.09% DIN record/replay

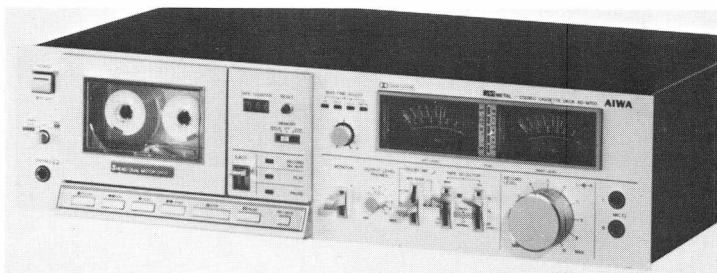
Signal-to-noise ratio:
 64 dB quiescent noise with Dolby, using LH tape; 64 dB quiescent noise with Dolby



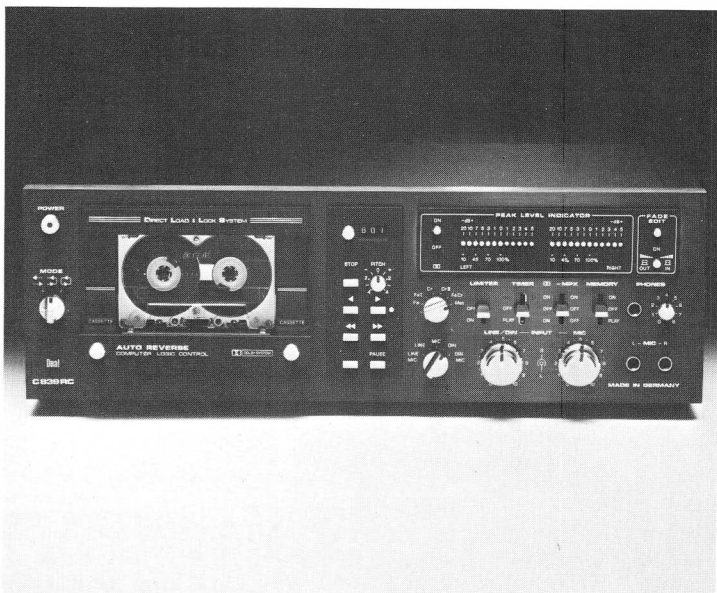
Aiwa AD-2000



Aiwa AD-L40



Aiwa AD-M700



Dual C839 RC

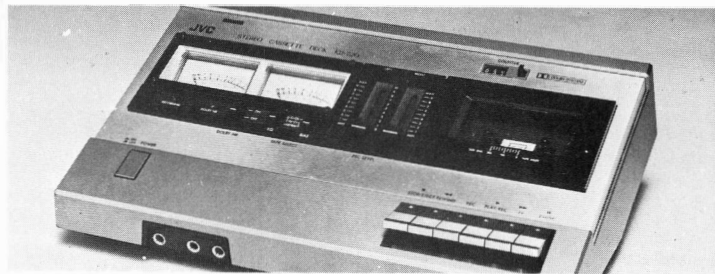
using CrO₂ tape; 67 dB quiescent noise with Dolby using Metal tape
Fast forward/rewind: 65 sec for C60 tape
Meter type: Peak LEDs for left/right channels
Special features: Autoreverse; infrared remote control; fade edit; headphone volume control
Height: 150 mm
Width: 440 mm
Depth: 360 mm
Net weight: Unspecified
Typical UK price: £491
UK importer/distributor: Hayden Laboratories Ltd, Hayden House, Churchfield Road, Chalfont St Peter, Buckinghamshire

JVC KD 720

Metal-tape facility: No
Heads: 2, Cronios record/playback, and two gap ferrite erase head
Motor: 1 electronically governed DC
Noise reduction: Dolby
Frequency response: LH tape: 40 Hz–14 kHz (typical); CrO₂ tape: 40 Hz–15 kHz (typical)
Wow and flutter: 0.07% wrms; 0.17% DIN
Signal-to-noise ratio: 56 dB
Fast forward/rewind: 85 sec for C60 tape
Meter type: VU meters
Special features: Top-loading machine
Height: 128 mm
Width: 390 mm
Depth: 250 mm
Net weight: 3.6 kg
Typical UK price: £90
UK importer/distributor: JVC (UK) Ltd, Eldonwall Trading Estate, Staples Corner, 6–8 Priestley Way, London NW2 7AF

JVC KD-A3

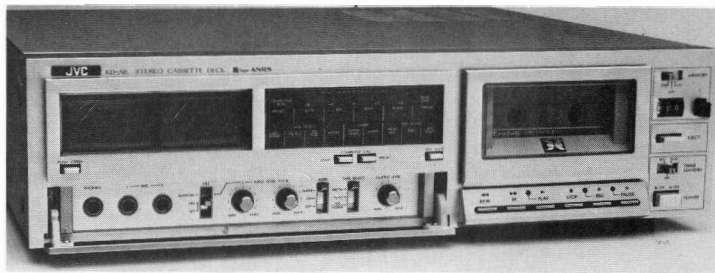
Metal-tape facility: Yes
Heads: 2, both record/playback and erase heads are Senalloy
Motor: 1 electronic governor DC
Noise reduction: ANRS/Super ANRS
Frequency response: LH tape: 30 Hz–15 kHz (typical); CrO₂ tape: 30 Hz–16 kHz (typical); Metal tape:



JVC KD 720



JVC KD-A3



JVC KD-A8



Lux 5K-50

30 Hz–16 kHz (typical)
Wow and flutter: 0.055% wrms; 0.15% DIN 4550
Signal-to-noise ratio: 60 dB with metal tape
Fast forward/rewind: 80 sec for C60 tape
Meter type: VU for left/right channels plus 5 LED peak meters
Special features: Record mute
Height: 149 mm
Width: 420 mm
Depth: 262 mm
Net weight: 5.6 kg
Typical UK price: £173
UK importer/distributor: JVC (UK) Ltd, Eldonwall Trading Estate, Staples Corner, 6–8 Priestley Way, London NW2 7AF

JVC KD-A8

Metal-tape facility: Yes
Heads: 2
Motor: 2, frequency-controlled DC Servo and a DC and Super ANRS
Noise reduction: ANRS
Frequency response: LH tape: 25 Hz–16 kHz ±1 dB using 'BEST' System; CrO₂ tape: 25 Hz–17 kHz ±1 dB using 'BEST' System; Metal tape: 25 Hz–17 kHz ±1 dB using 'BEST' System
Wow and flutter: 0.035% wrms; ±0.12% DIN
Signal-to-noise ratio: 60 dB without ANRS; 70 dB above 5 kHz, with ANRS
Fast forward/rewind: 85 sec for C60 tape

Meter type: VU left and right channel meters supplemented by multi-LED peak meter
Special features: BEST System – a mini-computer-controlled sampling system to optimize bias, equalization and sensitivity for any tape type; record mute switch; auto record level control; timer option
Height: 124 mm
Width: 450 mm
Depth: 390 mm
Net weight: 11 kg
Typical UK price: £506
UK importer/distributor: JVC (UK) Ltd, Eldonwall Trading Estate, Staples Corner, 6–8 Priestley Way, London NW2 7AF

LUX 5K-50

Metal-tape facility: Yes
Heads: 3, Sendust Playback head, ferrite erase head, ferrite record head
Motor: 3, quartz-locked direct drive to capstan, two coreless motors for drive to reels; dual capstan drive system
Noise reduction: Dolby and mpx filter
Frequency response: LH tape: 30 Hz–16 kHz ±3 dB; CrO₂ tape: 30 Hz–18 kHz ±3 dB; Metal tape: Unspecified
Wow and flutter: 0.03% wrms
Signal-to-noise ratio: 58 dB without Dolby, using CrO₂ tape; 67 dB with Dolby, using CrO₂ tape
Fast forward/rewind: Unspecified
Meter type: Plasma level with peak hold from –4 dB to +6 dB; separate scale for metal tape
Special features: Full IC logic circuit; single lever cue/review function; continuously variable bias to suit personal taste; user-adjustable azimuth of record head; optional remote control box
Height: 132 mm
Width: 442 mm
Depth: 362 mm
Net weight: 12.5 kg
Typical UK price: £1138
UK importer/distributor: Howland West Ltd, 3–5 Eden Grove, London N7 8EQ

LUX K-8

Metal-tape facility: Yes
Heads: 2 Sendust alloy record/playback, large high erasure erase head
Motor: 2, DC servo to capstan
Noise reduction: Dolby and mpx

Frequency response:
 LH tape: 30 Hz–15 kHz ± 3 dB; CrO₂ tape: 30 Hz–16 kHz ± 3 dB; Metal tape: 30 Hz–17 kHz ± 3 dB
Wow and flutter: 0.055% wrms

Signal-to-noise ratio: 57 dB without Dolby, using CrO₂ tape; 63 dB with Dolby, using CrO₂ tape

Fast forward/rewind: Unspecified

Meter type: 12-dot fluorescent peak

Special features: Record mute switch; timer facility; feather touch IC logic control; playback azimuth adjustment 'skew' control

Height: 108 mm

Width: 438 mm

Depth: 285 mm

Net weight: 6 kg

Typical UK price: £355

UK importer/distributor: Howland West Ltd, 3–5 Eden Grove, London N7 8EQ

MARANTZ SD4000

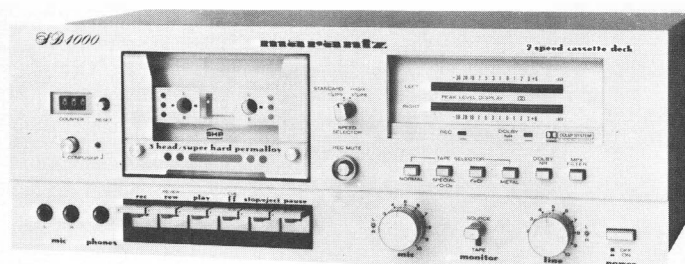
Metal-tape facility: Yes
Heads: 3, with 'combi-sendust' alloy head allowing record monitoring

Motor: 1 DC servo
Noise reduction: Dual Dolby

Frequency response:
 LH tape: 35 Hz–15.5 kHz (normal speed); 35 Hz–17.5 kHz (double speed)
 CrO₂ tape: 35 Hz–16.5 kHz (normal speed); 35 Hz–18 kHz (double speed)
 Metal tape: 35 Hz–18 kHz (normal speed); 35 Hz–19.5 kHz (double speed)

Wow and flutter: 0.06% wrms (normal speed); 0.04% wrms (double speed); 0.15% DIN (normal speed); 0.1% DIN (double speed)

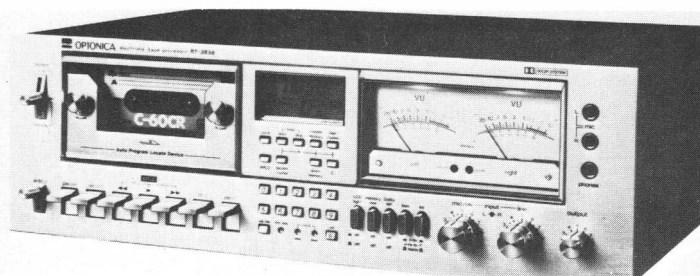
Signal-to-noise ratio: 57 dB without Dolby (IEC 'A' weighted) at normal speed; 67 dB above 5 kHz with Dolby (IEC 'A' weighted) at normal speed; 60 dB without



Marantz SD4000



Neal 302



Optonica RT-3838

Dolby (IEC 'A' weighted) at double speed; 70 dB with Dolby (IEC 'A' weighted) at double speed

Fast forward/rewind: Unspecified

Meter type: LED bar meters

Special features: Two mic inputs; 'Compuskip' facility; mic/line mixing facility; double speed facility for better performance

Height: 146 mm

Width: 416 mm

Depth: 243 mm

Net weight: 7 kg

Typical UK price: £219

UK importer/distributor: Marantz Audio Ltd (UK), 203 London Road, Staines, Middlesex

NAKAMICHI N 670 ZX

Metal-tape facility: Yes
Heads: 3, crystalloy record/playback, dual gap direct flux erase heads

Motor: 4

Noise reduction: Dolby

Frequency response: 10 Hz–22 kHz ± 3 dB (Metal); 10 Hz–20 kHz ± 3 dB (SX and EX)

Wow and flutter: Less than 0.08% weighted peak
 0.04% wrms

Signal-to-noise ratio: Better than 66 dB

Meter type: 47 dB peak (set by separate left/right record level controls and a master fader)

Special features: Auto

azimuth alignment by means of phase comparator feedback circuit between record, playback heads and servo motor; Double Dolby enables full off-tape monitoring; independent left/right channel record calibration; Random Access Memory controls 'skip' from 0 to 9 tracks before playback; remote control option

Height: 143 mm

Width: 482 mm

Depth: 340 mm

Net weight: Unspecified

Typical UK price: £550

UK importer/distributor: Natural Sound Systems, 10 Byron Road, Wealdstone, Harrow, Middlesex

NEAL 302

Metal-tape facility: No

Heads: Unspecified

Motor: 3 AC motors, logic controlled, solenoid operated

Noise reduction: Dolby

Frequency response:

LH tape: 35 Hz–12 kHz (+1 dB–3 dB); Special/CrO₂ tape: 35 Hz–15 kHz (+1 dB–3 dB)

Wow and flutter:

Less than 0.09% wrms DIN weighted

Signal-to-noise ratio: LH tape: 62 dB (Dolby on); Special/CrO₂ tape: 64 dB (Dolby on)

Fast forward/rewind: 50 sec for C60 tape

Meter type: Twin peak programme, indicating pre-emphasized recorded signal

Special features: Front or top loading (due to ergonomic layout/design); remote control option; bias calibration aided by meters

Height: 226 mm*

Width: 446 mm*

Depth: 155 mm*

*NB Dimensions are for front-loading operation

Typical UK price: £399

UK importer/distributor: North East Audio Ltd, Simonside Works, South Shields, Tyne and Wear

OPTONICA RT-3838

Metal-tape facility: No

Heads: 2, hard permalloy record/playback, ferrite erase head

Frequency response:

LH tape: 30 Hz–13 kHz DIN;
CrO₂ tape: 30 Hz–15 kHz
DIN

Wow and flutter:

0.06% wrms; ±0.15% DIN

Signal-to-noise ratio:

54 dB with CrO₂ tape, Dolby
off; 64 dB (above 5 kHz)
with CrO₂ tape

Fast forward/rewind:

Unspecified

Meter type: VU with single
peak LEDs

Special features: Auto
Programme Search System
enables up to 9 tracks to
be selected in any order for
playback

Height: 144 mm

Width: 442 mm

Depth: 357 mm

Net weight: Unspecified

Typical UK price: £219

UK importer/distributor:

Sharp Electronics (UK) Ltd,
107 Hulme Hall Lane,
Manchester M10 8HL

OPTONICA RT-9100

Metal-tape facility: Yes

Heads: 3, dual Sendust for
record and playback, DG
ferrite for erase

Motor: 2, quartz-locked PLL
servo motor for tape transport
employing closed-loop dual
capstan drive system,
separate reel motor is used
for fast winding

Noise reduction: Dolby and
mpx

Frequency response:

LH tape: 20 Hz–16 kHz DIN,
CrO₂ tape: 20 Hz–18 kHz
DIN; Metal tape: 20 Hz–
20 kHz DIN

Wow and flutter:

0.038% wrms; ±0.13%

Signal-to-noise ratio:

57 dB with FeCr tape, Dolby
off; 67 dB (above 5 kHz)
with FeCr tape, Dolby on

Fast forward/rewind:

Unspecified

Meter type: Peak LEDs

Special features: Auto
Programme Search System,
with up to 9 tracks selected
in any order; fine bias control;
limiter switch; remote control
option; feather touch controls

Height: 144 mm

Width: 430 mm

Depth: 371 mm

Net weight: Unspecified

Typical UK price: £459

UK importer/distributor:

Sharp Electronics (UK) Ltd,

107 Hulme Hall Lane,
Manchester M10 8HL

PIONEER CT-F650

Metal-tape facility: Yes

Heads: 2, hard permalloy
record/playback, and ferrite
erase

Motor: 1

Noise reduction: Dolby

Frequency response:

LH tape: 25 Hz–14 kHz
±3 dB; CrO₂ tape: 25 Hz–
16 kHz±3 dB; Metal tape:
25 Hz–17 kHz±3 dB

Wow and flutter:

0.05% wrms; ±0.17% DIN

Signal-to-noise ratio:

59 dB without Dolby; 69 dB
above 5 kHz with Dolby

Fast forward/rewind:

Unspecified

Meter type: Fluorescent
tube peak

Special features: Cue/
review; timer option

Height: 150 mm

Width: 420 mm

Depth: 335 mm

Net weight: 7.1 kg

Typical UK price: £194

UK importer/distributor:

Pioneer High Fidelity (GB)
Ltd, The Ridgeway, Iver,
Buckinghamshire SLO 9JL

PIONEER CT-F1250

Metal-tape facility: Yes

Heads: 3, multi-layer alloy
record, playback and ferrite
core erase

Motor: 2, with

microprocessor control

Noise reduction: Dolby and
mpx

Frequency response:

LH tape: 25 Hz–16 kHz
±3 dB; CrO₂ tape: 25 Hz–
17.5 kHz±3 dB; Metal tape:
25 Hz–18.5 kHz±3 dB

Wow and flutter:

0.03% wrms; ±0.12% DIN

Signal-to-noise ratio:

59 dB without Dolby; 69 dB
above 5 kHz with Dolby

Fast forward/rewind:

Unspecified

Meter type: Fluorescent
tube peak, with peak hold
facility

Special features: Record
mute switch; external timer
option; autoplay memory
rewind; calibration controls
for bias, eq and record level

Height: 187 mm

Width: 420 mm



Optonica RT-9100



Pioneer CT-F650



Pioneer CT-F1250

Depth: 369.5 mm

Net weight: 10.9 kg

Typical UK price: £500

UK importer/distributor:

Pioneer High Fidelity (GB)
Ltd, The Ridgeway, Iver,
Buckinghamshire SLO 9JL

SANSUI SC 1300

Metal-tape facility: Yes

Heads: 2, an FH record/
playback head, and a hi-bias
double gap ferrite erase head

Motor: 1 electronically
controlled DC

Noise reduction: Dolby

Frequency response:

LH tape: 20 Hz– 5 kHz
±3 dB; CrO₂ tape: 20 Hz–
16 kHz±3 dB; Metal tape:
20 Hz–16 kHz±3 dB

Wow and flutter:

0.05% wrms

Signal-to-noise ratio:

59 dB without Dolby; 69 dB
above 5 kHz with Dolby

Fast forward/rewind:

75 sec for C60 tape

Meter type: Peak LED (2

colours indicate OVU) for left/
right channels

Special features: Direct O
Matic tape loading; record
mute switch; output level
controls

Height: 160 mm

Width: 433 mm

Depth: 320 mm

Net weight: 5.9 kg

Typical UK price: £149

UK importer/distributor:

Sansui Audio Europe NV,
Unit 10A, Lyon Industrial
Estate, Rockware Avenue,

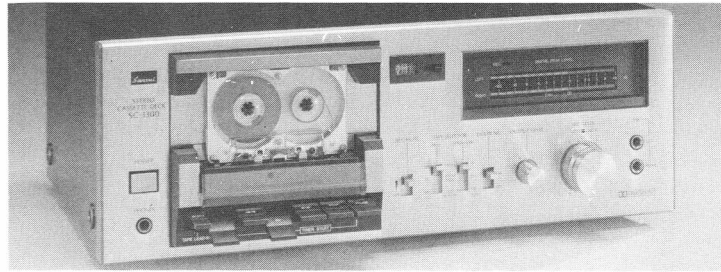
Greenford, Middlesex
UB6 0AA

SANSUI SC 3300

Metal-tape facility: Yes
Heads: 2, FH record/playback head, hi-bias double gap ferrite erase head
Motor: 2, both electronically controlled DC, one for drive to capstan, the other for drive to reel
Noise reduction: Dolby
Frequency response: LH tape: 20 Hz–15 kHz ± 3 dB; CrO₂ tape: 20 Hz–16 kHz ± 3 dB; Metal tape: 20 Hz–16 kHz ± 3 dB
Wow and flutter: 0.04% wrms
Signal-to-noise ratio: 59 dB without Dolby; 69 dB above 5 kHz with Dolby
Fast forward/rewind: 70 sec for C60 tape
Meter type: Peak LED (2 colours indicate OVU position) for left/right channels
Special features: Direct O Matic tape loading; output level control
Height: 160 mm
Width: 433 mm
Depth: 304 mm
Net weight: 5.9 kg
Typical UK price: £209
UK importer/distributor: Sansui Audio Europe NV, Unit 10A, Lyon Industrial Estate, Rockware Avenue, Greenford, Middlesex UB6 0AA

SONY TC K45

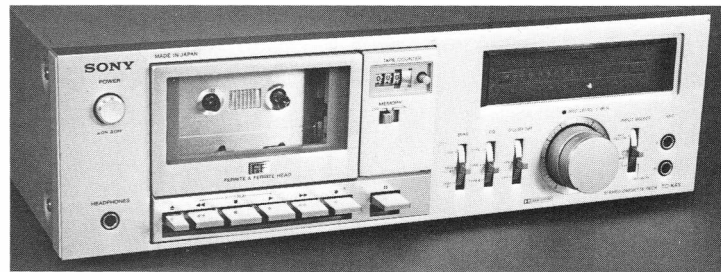
Metal-tape facility: Yes
Heads: 2, ferrite record and playback head, and 1 erase head
Motor: FG servo
Noise reduction: Dolby
Frequency response: FeCr tape: 30 Hz–15 kHz (± 3 dB); 30 Hz–15 kHz DIN
Wow and flutter: 0.05% wrms $\pm 0.14\%$
Signal-to-noise ratio: 58 dB with FeCr tape
Fast forward/rewind: Unspecified
Meter type: 16 segment LED
Height: 130 mm
Width: 430 mm
Depth: 290 mm
Net weight: 5.8 kg
Typical UK price: £176
UK importer/distributor:



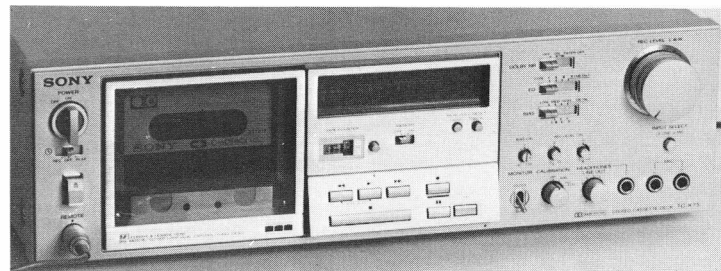
Sansui SC 1300



Sansui SC 3300



Sony TC K45



Sony TC K75



Sony TC K88

Sony UK, Pyrene House,
Sunbury; Sony Showrooms,
154 Regent Street, London
W1

SONY TC K75

Metal-tape facility: Yes
Heads: 3, F&F record head, F&F playback head, erase head
Motor: 2, one FG servo capstan
Noise reduction: Dolby and mpx
Frequency response: FeCr tape: 30 Hz–18 kHz ± 3 dB; FeCr tape: 30 Hz–18 kHz DIN
Wow and flutter: 0.045% wrms $\pm 0.12\%$
Signal-to-noise ratio: 60 dB with FeCr tape
Fast forward/rewind: Unspecified
Erasure: Unspecified
Meter type: 16 segment fast-react LEDs for left and right channels
Special features: Closed loop dual capstan tape drive; Dolby calibration tone and user-adjustable bias; microprocessor control of functions; remote control option
Height: 130 mm
Width: 430 mm
Depth: 290 mm
Net weight: 6.3 kg
Typical UK price: £295
UK importer/distributor: Sony UK, Pyrene House, Sunbury; Sony Showroom, 154 Regent Street, London W1

SONY TC K88

Metal-tape facility: Yes
Heads: 2, Sendust and ferrite record/playback head, ferrite erase head
Motor: 3 motors (crystal locked capstan drive system)
Noise reduction: Dolby
Frequency response: FeCr tape: 30 Hz–17 kHz ± 3 dB; FeCr tape: 30 Hz–17 kHz (DIN)
Wow and flutter: 0.03% wrms $\pm 0.085\%$ DIN
Signal-to-noise ratio: 60 dB with FeCr tape
Fast forward/rewind: Unspecified
Meter type: 33 segment LED peak left and right channel

Special features: Slimline, auto-slide cassette compartment; AMS facility

Height: 80 mm

Width: 480 mm

Depth: 385 mm

Net weight: 10 kg

Typical UK price: £479

UK importer/distributor:

Sony, Pyrene House, Sunbury; Sony Showroom, 154 Regent Street, London W1

TEAC C-2

Metal-tape facility: Yes

Heads: 3, all ferrite; the playback head has a deltaic structure with non-magnetic ferrite material to prevent interactive effects

Motor: 3, PLL DC servo capstan motor, 2 coreless DC reel motors

Noise reduction: Dolby provided; a dbx input allows this option too

Frequency response:

LH tape: 30 Hz–16 kHz

±3 dB; CrO₂ tape: 30 Hz–

18 kHz±3 dB; Metal tape:

30 Hz–20 kHz±3 dB

Wow and flutter:

0.04% NAB weighted

Signal-to-noise ratio:

58 dB without Dolby; 68 dB

above 5 kHz with Dolby

Fast forward/rewind:

90 sec for C60 tape

Meter type: Peak analogue meters for left and right channels

Special features: Optional plug-in bias/eq module for precisely calibrated settings; logic circuitry; memory auto-stop play; record mute; feather touch

Height: 147 mm

Width: 482 mm

Depth: 353 mm

Net weight: 12.5 kg

Typical UK price: £599

UK importer/distributor:

Harman (Audio) UK Ltd, St John's Wood, Tyders Green, Buckinghamshire HP10 8HR

TEAC A-108 SYNC

Metal-tape facility: No

Heads: 2

Motor: 1 FG servo-controlled DC

Noise reduction: Dolby

Frequency response:

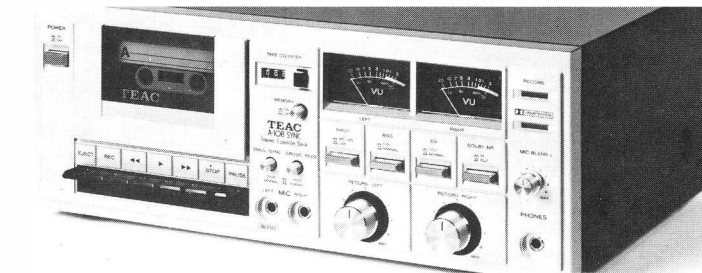
CrO₂ tape: 30 Hz–16 kHz

Wow and flutter:

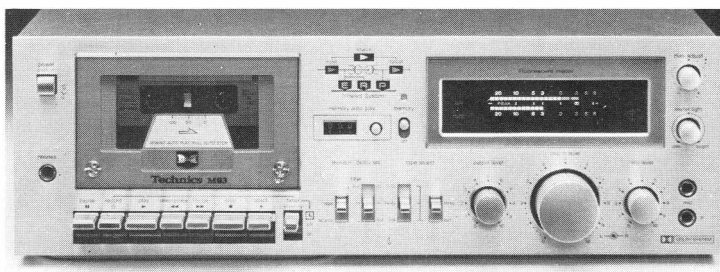
0.07% NAB weighted



Teac C-2



Teac A-108 Sync



Technics RS-M63



Technics RS-M95

Signal-to-noise ratio:

55 dB without Dolby; 65 dB

above 5 kHz with Dolby

Fast forward/rewind:

90 sec for C60 tape

Meter type: VU left and right channel

Special features: 'Symul Sync' overdubbing with variable crosstalk facility; mic/tape mixing for playback; mic/line mixing for record; memory rewind

Height: 160 mm

Width: 410 mm

Depth: 292 mm

Net weight: 7 kg

Typical UK price: £170

UK importer/distributor:

Harman (Audio) UK Ltd, St John's Wood, Tyders Green, Buckinghamshire HP10 8HR

TECHNICS RS-M63

Metal-tape facility: Yes

Heads: 3, HPF heads for both record and playback, Sendust/ferrite double gap erase head

Motor: Electronic speed-controlled DC motor

Noise reduction: Dolby and mpx filter

Frequency response:

LH tape: 30 Hz–15 kHz

(±3 dB); CrO₂ tape: 30 Hz–

16 kHz (±3 dB); Metal tape:

30 Hz–17 kHz (±3 dB)

Wow and flutter:

0.05% wrms ±0.14% DIN

Signal-to-noise ratio:

57 dB Dolby out; 67 dB

Dolby in (above 5 kHz)

Fast forward/rewind:

90 sec for C60 tape

Meter type: Peak FL (2 colours to indicate OUV), with variable brightness

Special features: Separate Dolby systems for record and playback enable full Dolbyized monitoring; fine bias control; rewind-auto play; mic level control; timer option

Height: 142 mm

Width: 430 mm

Depth: 270 mm

Net weight: 6.3 kg

Typical UK price: £229

UK importer/distributor:

Panasonic (UK) Ltd, 107–109 Whitby Road, Slough, Berkshire SL1 3DR

TECHNICS RS-M65

Metal-tape facility: No

Heads: 2, Sendust extra recording/playback head, double gap ferrite erase head

Motor: 2, FG servo direct drive capstan motor, and DC coreless motor for reel table drive

Noise reduction: Dolby and mpx filter

Frequency response:

LH tape: 30 Hz–14 kHz

(±3 dB); CrO₂ tape: 30 Hz–

16 kHz (±3 dB)

Wow and flutter:

0.035% wrms ±0.1% DIN

Signal-to-noise ratio:

59 dB Dolby out; 69 dB

Dolby in (above 5 kHz)

Fast forward/rewind:

80 sec for C60 tape

Meter type: Peak LEDs (2

colours indicating OVU)

Special features: Logic

controls to allow quick change from fast forward to play without damage; fine bias control; record mute; memory rewind; timer option

Height: 97 mm

Width: 430 mm

Depth: 347 mm

Net weight: 7.1 kg

Typical UK price:

Unspecified

UK importer/distributor:

Panasonic (UK) Ltd, 107–109 Whitby Road, Slough, Berkshire SL1 3DR

TECHNICS RS-M95

Metal-tape facility: Yes

Heads: 3, HPF combination head for recording, HPF playback head, 1 double gap

OPEN REEL DECKS

Sendust/ferrite erase head

Motor: 2. quartz-controlled phase-locked DC brushless direct-drive capstan motor, DC coreless motor for reel table drive

Noise reduction: Dolby

Frequency response:

LH tape: 20 Hz–17 kHz (± 3 dB); CrO₂ tape: 20 Hz–19 kHz (± 3 dB); Metal tape: 20 Hz–20 kHz (± 3 dB)

Wow and flutter:

0.03% wrms $\pm 0.09\%$

Signal-to-noise ratio:

60 dB Dolby out; 70 dB above 5 kHz Dolby in

Fast forward/rewind:

80 sec for C60 tape

Meter type: 30 segment

VU/FL meters, with peak hold facility (-42 dB ± 8 dB)

Special features: Fine bias adjustment independently for each tape type; remote control option

Height: 142 mm

Width: 450 mm

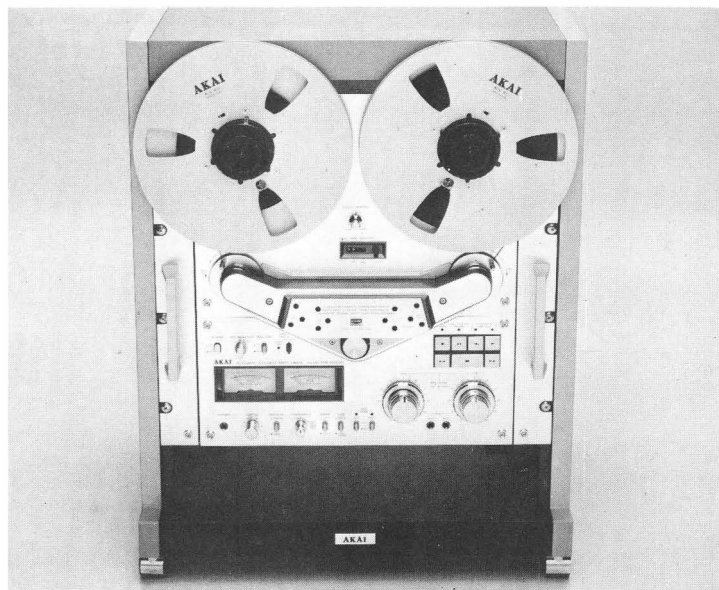
Depth: 348 mm

Net weight: 12 kg

Typical UK price: £666

UK importer/distributor:

Panasonic (UK) Ltd, 107–109 Whitby Road, Slough, Berkshire SL1 3DR



Akai GX635D



Akai 4000D

AKAI GX635D

Type: $\frac{1}{4}$ track

Tape speeds: 9.5, 19 cm/sec

Heads: 3

Tape transport: 3 motors consisting direct drive capstan CPG AC servo, and 2 eddy current motors

Frequency response:

19 cm/sec: 30 Hz–27 kHz ± 3 dB

Wow and flutter:

9.5 cm/sec: Less than 0.03%;

19 cm/sec: Less than 0.04%

Signal-to-noise ratio:

Better than 62 dB

Total harmonic distortion:

Better than 0.05%

Special features: Feather touch logic; auto reverse with 6 heads, and real time

counter

Height: 483 mm

Width: 440 mm

Depth: 256 mm

Net weight: 21 kg

Typical UK price: £608

UK importer/distributor:

Akai (UK) Ltd, Silver Jubilee Way, Parkway, Heathrow, Middlesex

AKAI 4000D

Type: $\frac{1}{4}$ track

Tape speeds: 9.5, 19 cm/sec

Heads: 3

Tape transport: Unspecified

Frequency response:

19 cm/sec: 30 Hz–24 kHz ± 3 dB

Wow and flutter:

9.5 cm/sec: 0.08%



Ferrograph 7602H

Signal-to-noise ratio:

Better than 60 dB

Total harmonic distortion:

Better than 1%

Special features: Sound on

sound; full monitoring; variable output; headphone level control

Height: 315 mm

Width: 440 mm

Depth: 230 mm

Net weight: 13.2 kg

Typical UK price: £219

UK importer/distributor:

Akai (UK) Ltd, Silver Jubilee Way, Parkway, Heathrow, Middlesex

FERROGRAPH 7602H

Type: ½ track

Tape speeds: 9.5, 19, 38 cm/sec

Tape transport: 3 motors – 1 synchronous and 2 constant torque

Frequency response:

9.5 cm/sec: 40 Hz–14 kHz ±3 dB; 19 cm/sec: 30 Hz–17 kHz±2 dB; 38 cm/sec: 30 Hz–20 kHz±2 dB

Signal-to-noise ratio:

Better than 60 dB

Total harmonic distortion:

Unspecified

Special features: Adjustable

tape tension; mixing facilities between different inputs; adjustable bias for optimum record/playback for different tapes; pre-amplifier provided, complete with tone controls etc; Ferrograph make several alternative versions of this model – for example the 7602DH has Dolby B noise

reduction, the 7622H has a 10 watts per channel power amplifier, and the 7622DH has both Dolby and power amplifier

Height: 437 mm

Width: 506 mm

Depth: 254 mm

Weight: Unspecified

Typical UK price: £746

UK importer/distributor:

North East Audio Ltd, Simonside Works, South Shields, Tyne and Wear NE34 9NX

GRUNDIG TS1000

Type: ¼ track or ½ track (electronically switchable)

Tape speeds: 4.75, 9.5, 19 cm/sec

Heads: 3 – allows monitoring

Tape transport: Unspecified

Frequency response:

4.75 cm/sec: 20 Hz–12.5 kHz; 9.5 cm/sec: 20 Hz–16 kHz; 19 cm/sec: 20 Hz–20 kHz

Wow and flutter:

4.75 cm/sec: ±0.15%; 9.5 cm/sec: ±0.09%; 19 cm/sec: ±0.05%

Signal-to-noise ratio:

4.75 cm/sec: 56/57 or 64/65 dB (FeCr tape, without and with Dolby); 9.5 cm/sec: 63/65 or 71/73 dB (FeCr tape, without and with Dolby); 19 cm/sec: 64/66 or 72/74 dB (FeCr tape, without and with Dolby)

Total harmonic distortion:

Unspecified

Special features: Dolby B;



Grundig TS1000



Sony TC880

facilities for trick, synchronous, multiplay and echo recording; auto/manual record level controls; remote control option

Height: 200 mm

Width: 540 mm

Depth: 500 mm

Net weight: 22.5 kg

Typical UK price: £552

UK importer/distributor:

Grundig International Ltd, London SE26 5NQ

REVOX B77

Type: ¼ or ½ track

Tape speeds: 9.5, 19 cm/sec

Tape transport: 3 AC motors – 2 for spools, 1 for capstan

Frequency response:

9.5 cm/sec: 30 Hz–16 kHz +2–3 dB; 19 cm/sec: 30 Hz–20 kHz +2–3 dB

Wow and flutter:

9.5 cm/sec: Better than 0.1% (DIN 45507); 19 cm/sec: 0.08% (DIN 45507)

Signal-to-noise ratio:

9.5 cm/sec: 64 dB (½ track), 60 dB (¼ track); 19 cm/sec: 67 dB (½ track), 63 dB (¼ track)

Total harmonic distortion:

9.5 cm/sec: Better than 1% (OVU); 19 cm/sec: Better than 0.06% (OVU)

Special features: Logic

control tape transport operation; electronic switching of all motors; remove control and timer options available

Height: 414 mm



Revox B77



Teac X10

Width: 452 mm
Depth: 207 mm
Typical UK price: £690
UK importer/distributor:
 F W O Bauch Ltd,
 49 Theobald Street, Boreham
 Wood, Herts WD6 4RZ

SONY TC399

Type: $\frac{1}{4}$ track
Tape speeds: 4.75, 9.5,
 19 cm/sec
Heads: 3 (F&F record and
 playback)
Tape transport: 9.5 cm/sec:
 30 Hz–18 kHz ± 3 dB (FeCr
 tape); 19 cm/sec: 30 Hz–
 25 kHz ± 3 dB (FeCr tape)
Wow and flutter:
 4.75 cm/sec: 0.12% wrms;
 9.5 cm/sec: 0.09% wrms

$\pm 0.12\%$ DIN; 19 cm/sec:
 0.06% wrms $\pm 0.09\%$ DIN
Signal-to-noise ratio:
 Normal tape: 55 dB, Special
 tape: 58 dB, FeCr tape: 61 dB
Total harmonic distortion:
 0.8% (FeCr tape)
Special features: Separate
 3 position bias and
 equalization switches
Height: 435 mm
Width: 415 mm
Depth: 190 mm
Net weight: 12.9 kg
Typical UK price: £302
UK importer/distributor:
 Sony UK, Pyrene House,
 Sunbury, Middlesex; Sony
 Showrooms, 134 Regent
 Street, London W1R 6DJ



Sony TC399

SONY TC880

Type: $\frac{1}{2}$ track record/
 playback and $\frac{1}{4}$ track playback
Tape speeds: 19, 38 cm/sec
Heads: 3 (F&F type)
Tape transport: Direct
 drive
Frequency response:
 19 cm/sec: 25 Hz–30 kHz
 ± 2 dB; 38 cm/sec: 20 Hz–
 40 kHz ± 2 dB
Wow and flutter:
 19 cm/sec: 0.03% wrms,
 $\pm 0.04\%$ DIN; 38 cm/sec:
 0.02% wrms, $\pm 0.03\%$ DIN
Signal-to-noise ratio:
 Normal tape: 59 dB, SLH
 tape: 62 dB, FeCr tape: 65 dB
Total harmonic distortion:
 0.5% (FeCr tape)
Special features: Peak hold
 meters; Sel-synch precision
 overdubbing; real time
 calibrated tape counter
Height: 515 mm
Width: 465 mm
Depth: 265 mm
Net weight: 36.5 kg
Typical UK price: £1482
UK importer/distributor:
 Sony UK, Pyrene House,
 Sunbury, Middlesex; Sony
 Showroom, 134 Regent
 Street, London W1R 6DJ

TEAC A-6600

Type: $\frac{1}{4}$ track
Tape speeds: 9.5, 19 cm/sec
Heads: 4 (erase, record,
 forward play, reverse play)
Tape transport: 2 eddy
 current induction motors,
 1 FG servo controlled DC

capstan motor
Frequency response:
 9.5 cm/sec: 40 Hz–18 kHz
 (± 3 dB); 19 cm/sec: 40 Hz–
 22 kHz (± 3 dB)
Wow and flutter:
 9.5 cm/sec: 0.08% wrms;
 19 cm/sec: 0.05% wrms
Signal-to-noise ratio:
 58 dB for 3% THD weighted
Total harmonic distortion:
 Less than 0.8% (normal
 operating level)
Special features: Twin
 capstan autoreverse;
 continuously variable 3 to
 8 second gap record mute
 'auto spacer'; feather touch
 controls; remote control
 option; microphone
 attenuation switch
Height: 549 mm
Width: 476 mm
Depth: 258 mm
Net weight: 30 kg
Typical UK price: £1099
UK importer/distributor:
 Harman (Audio) UK Ltd,
 St John's Road, Tylers
 Green, High Wycombe, Bucks

TEAC X10

Type: $\frac{1}{4}$ track
Tape speeds: 9.5, 19 cm/sec
Heads: 3, hard permalloy
Tape transport: 2 DC
 slotless reel motors and 1 DC
 FG servo capstan motor
Frequency response:
 9.5 cm/sec: 40 Hz–16 kHz
 ± 3 dB at -20 VU;
 19 cm/sec: 40 Hz–20 kHz
 ± 3 dB at -10 VU
Wow and flutter:
 9.5 cm/sec: 0.04% (NAB)



Technics SL1500US

weighted); 19 cm/sec: 0.03% (NAB weighted)

Signal-to-noise ratio:

63 dB for 3% (THD weighted)

Total harmonic distortion:

0.8% (normal listening levels)

Special features: Logic control transport; record mute, pitch control; an alternative version – the Teac X10R – features bi-directional record and playback by means of 6 tape heads

Height: 452 mm

Width: 432 mm

Depth: 262 mm

Net weight: 20 kg

Typical UK price: £499

UK importer/distributor:

Harman (Audio) UK Ltd, St John's Road, Tylers Green, High Wycombe, Bucks

TECHNICS SL1500US

Type: $\frac{1}{2}$ track record/playback, $\frac{1}{4}$ track playback

Tape speeds: 9.5, 19, 38 cm/sec

Heads: $\frac{1}{4}$ track playback, $\frac{1}{2}$ track erase, recording and switchable playback

Tape transport: Quartz controlled phase locked DC brushless servo direct drive to capstan; 2 tape tension controlled DC brushless direct drive motors for reel drive

Frequency response:

9.5 cm/sec: 20 Hz–15 kHz ± 3 dB; 19 cm/sec: 20 Hz–25 kHz ± 3 dB; 38 cm/sec: 30 Hz–30 kHz ± 3 dB

Wow and flutter:

9.5 cm/sec: 0.06% wrms or $\pm 0.12\%$ DIN; 19 cm/sec:

0.03% wrms or $\pm 0.06\%$ DIN;

38 cm/sec: 0.018% wrms or $\pm 0.035\%$ DIN

Signal-to-noise ratio:

9.5 cm/sec: 66 dB;

19 cm/sec: 68 dB;

38 cm/sec: 68 dB

Total harmonic distortion:

0.8% at OVU

Special features: Direct coupled three stage record equalization amplifier design gives linearity up to 25 dB above OVU

Height: 446 mm

Width: 456 mm

Depth: 258 mm

Net weight: 25 kg

Typical UK price: £1124

UK importer/distributor:

Panasonic (UK) Ltd, 107–109 Whitby Road, Slough, Berkshire

TUNERS

AIWA AT9700

Wavebands: FM

FM Section**50 dB Quieting Sensitivity**

Mono: 3.2 μ V (normal and narrow), 300 ohms

Stereo: 32 μ V (normal and narrow), 300 ohms

Frequency response:

Unspecified

Total harmonic distortion measured in stereo at 1 kHz:

0.05% (normal),

0.5% (narrow)

Capture ratio: 1 dB

(normal), 2 dB (narrow)

Alternate channel

selectivity: 20 dB (normal),

70 dB (narrow)

Spurious response ratio:

110 dB

Image response ratio:

110 dB

IF response ratio:

Unspecified

AM suppression: 65 dB

Stereo separation

measured at 1 kHz: 45 dB

(normal) ± 400 kHz

10 kHz: 85 dB (narrow)

± 400 kHz

Output: Unspecified

Antenna input impedance:

75 ohms and 300 ohms

Special features: Quartz-

locked digital tuning; auto-

manual selectivity switch;

2-position high blend

selection

Size: 448 \times 149 \times 376 mm

Weight: 8.7 kg

Typical UK price: £325

UK importer/distributor:

Aiwa Sales and Service (UK) Ltd, 30–32 Concord Road, Western Avenue, London W3 0TH

HITACHI FT 4000L

Wavebands: FM, MW, LW

FM Section**50 dB Quieting Sensitivity:**

Unspecified

Usable sensitivity: 1.8 μ V

IHF

Frequency response:

Unspecified

Total harmonic distortion in

Mono: 0.1%

Stereo: 0.25%

Capture ratio: 1.2 dB

Alternate channel

selectivity: 75 dB

Spurious response ratio:

Unspecified

Image response ratio:

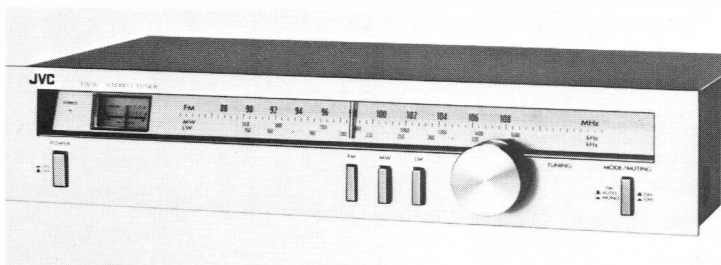
50 dB



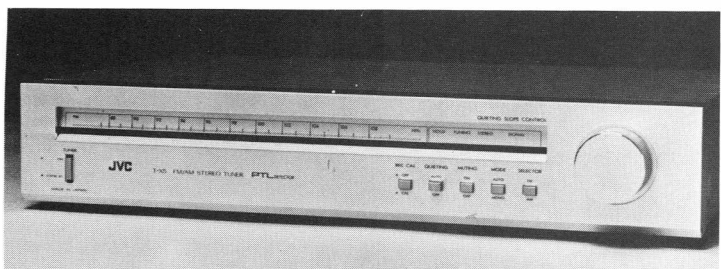
Aiwa AT9700



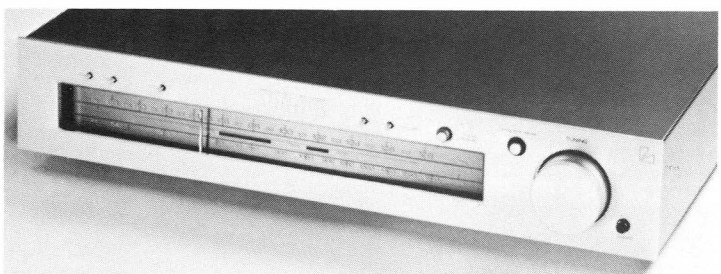
Hitachi FT4000L



JVC JT-V3L



JVC TX5



Lux T4

IF response ratio: 80 dB
AM suppression: Unspecified
Stereo separation: 50 dB
Signal-to-noise ratio: 75 dB mono, 68 dB stereo
Output: Unspecified
Antenna input impedance: 300 ohms
AM Section
Usable sensitivity: 300 μ V (LW); 600 μ V (MW)
Signal-to-noise ratio: 53 dB
Special features: Combined auto mute/mono switch
Size: 435×110×272 mm
Weight: 3.8 kg
Typical UK price: £95
UK importer/distributor: Hitachi Sales (UK) Ltd, Hitachi House, Station Road, Hayes, Middlesex UB3 4DR

JVC JT-V3L

Wavebands: FM, LW, MW
FM Section
50 dB Quietening Sensitivity in
Mono: 17.2 dBf (4 μ V)
Stereo: 38.3 dBf (22.5 μ V)
Frequency response: 20 Hz–15 kHz (+0.5 dB –0.8 dB)
Total harmonic distortion measured in stereo at
100 Hz: 0.45%
1 kHz: 0.45%
6 kHz: 0.55%

Capture ratio: 1.5 dB
Alternate channel selectivity: 55 dB
Spurious response ratio: 60 dB
Image response ratio: 55 dB (98 MHz)
IF response ratio: 75 dB
AM suppression: 45 dB
Stereo separation measured at 1 kHz: 40 dB
10 kHz: 30 dB
Signal-to-noise ratio: 70 dB mono, 65 dB stereo
Output: 600 mV (fixed)
Antenna input impedance: 75 ohms unbalanced

AM Section
Usable sensitivity: MW: 300 μ V/m (bar antenna); LW: 500 μ V/m (bar antenna)
Signal-to-noise ratio: 50 dB

Special features: Auto stereo/mono switch
Size: 89×420×306 mm
Weight: 3.4 kg
Typical UK price: £90
UK importer/distributor: JVC (UK) Ltd, Eldonwall Trading Estate, Staples

Corner, 6–8 Priestley Way, London NW2 7AF

JVC TX5

Wavebands: FM, MW
FM Section
50 dB Quietening Sensitivity in
Mono: 16.3 dBf (1.8 μ V)
Stereo: 30 dBf (8.7 μ V)
 quieting auto; 36.8 dBf (19 μ V) quieting on
Frequency response: 30 Hz–15 kHz +0.3 dB –0.8 dB
Total harmonic distortion measured in stereo at
100 Hz: 0.10%
1 kHz: 0.08%
6 kHz: 0.15%

Capture ratio: 1 dB (IHF)
Alternate channel selectivity: 65 dB (IHF)
Spurious response ratio: 100 dB (IHF)

Image response ratio: 90 dB (IHF)
IF response ratio: 100 dB (IHF)
AM suppression: 65 dB (IHF)
Stereo separation measured at 1 kHz: 50 dB
10 kHz: 40 dB

Signal-to-noise ratio: 81 dB mono, 78 dB stereo
Output: Variable from 0–1 V (2.5 kohms), or fixed at 560 mV (switchable)
Antenna input impedance: 75 ohms unbalanced
AM Section
Usable sensitivity: 300 μ V (bar antenna), or 50 μ V (external antenna)
Signal-to-noise ratio: 50 dB

Special features: Quieting slope control switch; record calibration switch; auto stereo/mono switch
Size: 89×450×364 mm
Weight: 5 kg
Typical UK price: Unspecified
UK importer/distributor: JVC (UK) Ltd, Eldonwall Trading Estate, Staples Corner, 6–8 Priestley Way, London NW2 7AF

LUX T4

Wavebands: FM, MW
FM Section
50 dB Quietening Sensitivity
75 μ sec: 14.2 dBf (1.8 μ V);
50 μ sec: 14.8 dBf (3.0 μ V)
Frequency response:

30 Hz–15 kHz±1 dB

Total harmonic distortion measured in stereo at

100 Hz: 0.08% (wide, mono), 0.2% (wide, stereo)

1 kHz: 0.08% (wide, mono), 0.15% (wide, stereo)

6 kHz: 0.2% (narrow, mono), 0.5% (narrow, stereo)

Capture ratio: 1 dB (wide), 2 dB (narrow)

Alternate channel

selectivity: 80 dB (narrow), 40 dB (wide), both ±400 kHz

Spurious response ratio: 80 dB

Image response ratio: 55 dB

IF response ratio: 80 dB

AM suppression: 60 dB

Stereo separation

measured at 1 kHz: 48 dB (wide), 30 dB (narrow)

10 kHz: 40 dB (wide)

Signal-to-noise ratio: 75 dB

Output: 1 V

Antenna input impedance: Unspecified

AM Section

Usable sensitivity:

250 uV/m

Signal-to-noise ratio: 50 dB

Special features: FM muting level variable

Size: 438×331×84 mm

Weight: 6.5 kg

Typical UK price: £282

UK importer/distributor:

Howland West Ltd, 3–5 Eden Grove, London N7 8EQ

NAD 4020

Wavebands: FM

FM Section

50 dB Quieting Sensitivity in

Mono: 3.5 uV (16 dBf)

Stereo: 45 uV (38 dBf)

Frequency response:

30 Hz–15 kHz±0.5 dB

Total harmonic distortion measured in stereo at

100 Hz: 0.3%

1 kHz: 0.3%

6 kHz: 0.4%

Capture ratio: 1.5 dB

Alternate channel

selectivity: 62 dB

Spurious response ratio: Unspecified

Image response ratio:

50 dB

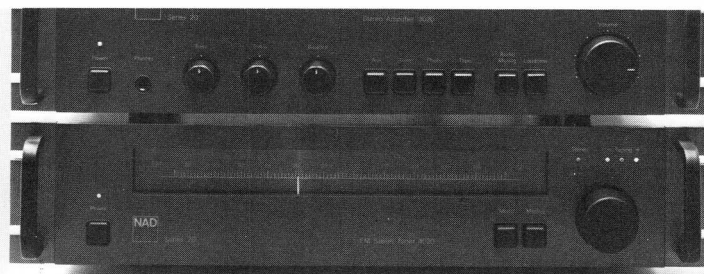
IF response ratio: 75 dB

AM suppression: 60 dB

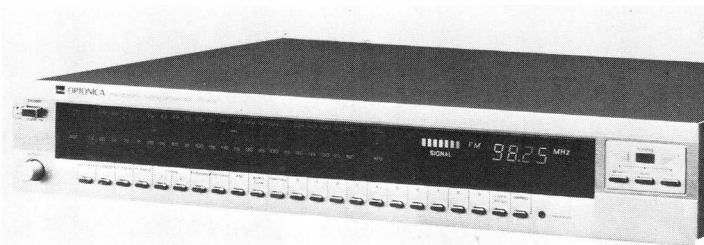
Stereo separation

measured at 1 kHz: 42 dB

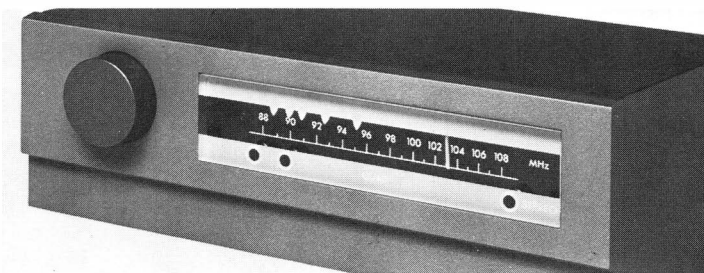
10 kHz: 30 Hz–15 kHz: 32 dB



NAD 4020 with matching 3020 amplifier (above)



Optonica ST9100



Quad FM3

Output: Unspecified

Antenna input impedance: Unspecified

Size: 960×420×240 mm

Weight: 4.2 kg

Typical UK price: £86

UK importer/distributor:

NAD Sales, Unit 3, Colonial Way, Watford, Hertfordshire

OPTONICA ST9100

Wavebands: FM, MW

FM Section

50 dB Quieting Sensitivity:

Unspecified

Sensitivity: 1.4 uV (40 kHz deviation, for 26 dB signal-to-noise ratio)

Frequency response:

30 Hz–15 kHz +1.5 dB –3 dB

Total harmonic distortion:

0.3% (mono, wide); 0.4% (stereo, wide)

Capture ratio: 2.5 dB

(normal); 2 dB (wide)

Alternate channel

selectivity: 75 dB (normal); 54 dB (wide)

Spurious response ratio:

100 dB

Image response ratio:

100 dB (98 MHz)

IF response ratio: 100 dB (98 MHz)

AM suppression: Unspecified

Stereo separation measured at 1 kHz: 42 dB (wide)

Output: 600 mV

Antenna input impedance: Unspecified

AM Section

Usable sensitivity:

400 uV/m

Signal-to-noise ratio:

Unspecified

Special features:

Microprocessor-controlled manual and 10-preset station tuning; quartz synthesizer tuning error control

Size: 430×75×385 mm

Weight: Unspecified

Typical UK price: £379

UK importer/distributor:

Sharp Electronics (UK) Ltd, 107 Hulme Hall Lane, Manchester M10 8HL

QUAD FM3

Wavebands: FM

FM Section

50 dB Quieting Sensitivity in

Mono: Approx 5 uV

Stereo: Approx 40 uV

Frequency response:

20 Hz–15 kHz±1 dB

Total harmonic distortion measured in stereo at

1 kHz: 0.3% (±40 kHz deviation)

Capture ratio: 3 dB

Alternate channel

selectivity: 46 dB (400 kHz)

Spurious response ratio: 56 dB

IF response ratio: 80 dB

AM suppression:

Unspecified

Stereo separation

measured at 1 kHz: 40 dB

Signal-to-noise ratio:

Unspecified

Output: 100 mV per channel for 30% modulation

Antenna input impedance:

75 ohms coaxial, 300 ohms balanced

Special features: Manually movable pointers for station memory

Size: 260×92×165 mm

Weight: 2.7 kg

Typical UK price: £129

UK importer/distributor:

The Acoustical Manufacturing Company Ltd, Huntingdon, Cambridge PE18 7DB

REVOX B760

Wavebands: FM

FM Section

50 dB Quieting Sensitivity:

Unspecified

Usable sensitivity: 2 uV

mono, 20 uV stereo (for 46 dB signal-to-noise ratio ref 40 kHz deviation)

Frequency response:

30 Hz–15 kHz±1 dB

Total harmonic distortion

measured in stereo at

1 kHz: 0.1% (with an input

of 1 mV/75 ohms modulated to 40 kHz deviation)

Capture ratio: 0.8 dB

(40 kHz deviation, 30 dB

S/N ratio and 1 mV/75 ohm input)

Static selectivity: 80 dB

Spurious response ratio:

106 dB

Image response ratio:

106 dB

IF response ratio: 110 dB

AM suppression: 70 dB

Stereo separation

measured at 1 kHz: 42 dB

(with hi-blend, separation is reduced to 10 dB)

Output: 1.16 V

Antenna input impedance:

75 ohms coaxial, 300 ohms

balanced

Special features: Variable mute, switchable mute, high blend, mono, 15 station presets; digital tuning scale, manually tuned in 50 kHz steps; noise reduction switch for FM Dolby plug-in module

Size: 452×151×348 mm

Weight: 12 kg

Typical UK price: £776

UK importer/distributor:

F W O Bauch Ltd,
49 Theobald Street, Boreham
Wood, Hertfordshire

ROTEL RT-2000

Wavebands: FM, MW

FM Section

50 dB Quieting Sensitivity in

Mono: 14.7 dBf (3 uV/
300 ohms)

Stereo: 36 dBf (35 uV/
300 ohms)

Frequency response:

Unspecified

Total harmonic distortion

at 65 dBf: 0.07% wide,
0.2% narrow

Capture ratio: 1 dB at
12 dBf

Alternate channel

selectivity: 40 dB

Spurious response ratio:

Unspecified

Image response ratio:

50 dB

IF response ratio: 100 dB

AM suppression:

Unspecified

Stereo separation

measured at 1 kHz: 40 dB
(wide and narrow)

10 kHz: 40 dB (wide and
narrow)

Signal-to-noise ratio:

55 dB

Output: Unspecified

Antenna input impedance:
300 ohms

AM Section

Usable sensitivity:

200 uV/m (IHF ferrite
antenna)

Signal-to-noise ratio:

55 dB

Special features:

De-emphasis and multipath
switches; narrow/wide IF
switch; output level control

Size: 482×143×328 mm

Weight: 9.2 kg

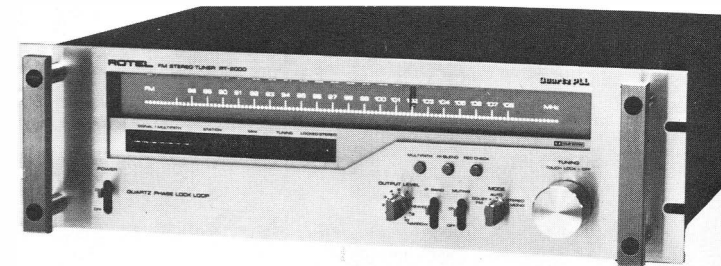
Typical UK price: £250

UK importer/distributor:

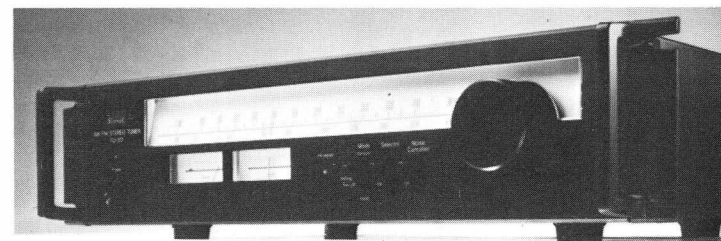
Rotel, 2-4 Erica Road, Stacy
Bushes, Milton Keynes,
Buckinghamshire



Revox B760



Rotel RT-2000



Sansui TU-317



Sansui TU-X1

SANSUI TU-317

Wavebands: FM, MW

FM Section

50 dB Quieting Sensitivity in

Mono: 13.5 dBf

Stereo: 36.5 dBf

Frequency response:

20 Hz-15 kHz+0.5 dB-1 dB
(mono and stereo)

Total harmonic distortion
measured in stereo at

100 Hz: 0.15% max

1 kHz: 0.09% max

6 kHz: 0.25% max

Capture ratio: 1 dB

Alternate channel

selectivity: 50 dB (narrow,
400 kHz)

Spurious response ratio:

83 dB

Image response ratio:

55 dB

IF response ratio: 95 dB

AM suppression: 50 dB

Stereo separation

measured at 1 kHz: 40 dB

10 kHz: 30 dB

Signal-to-noise ratio:

79 dB mono, 73 dB stereo

(at 65 dBf)

Output: 0.775 V (1 kohm)

Antenna input impedance:

75 ohms unbalanced, 300

ohms balanced

AM Section

Usable sensitivity:

47 dB/m (220 uV/m) with

bar antenna

Signal-to-noise ratio:

48 dB

Special features: FM noise

canceller switch; auto-

stereo/mono/mute switch

Size: 430×110×316 mm

Weight: 5.3 kg

Typical UK price: £122

UK importer/distributor:

Sansui Audio Europe NV,

Unit 10A, Lyon Industrial

Estate, Rockware Avenue,

Greenford, Middlesex

UB6 0AA

SANSUI TU-X1

Wavebands: FM, MW

FM Section

50 dB Quieting Sensitivity in

Mono: 12.5 dBf

Stereo: 34 dBf

Sensitivity (IHF T-100):

1.85 uV

Frequency response:

30 Hz-15 kHz+0.2 dB

-0.8 dB

Total harmonic distortion

measured in stereo at

100 Hz: 0.04%

1 kHz: 0.03%

6 kHz: 0.05%

Capture ratio: 0.8 dB

Alternate channel

selectivity: 55 dB at

400 kHz (wide); 80 dB at

400 Hz (narrow)

Spurious response ratio:

130 dB at 98 MHz

Image response ratio:

130 dB at 98 MHz

IF response ratio: 130 dB

at 98 MHz

AM suppression: 65 dB at

98 MHz

Stereo separation

measured at 1 kHz: 50 dB

10 kHz: 35 dB

Signal-to-noise ratio:

80 dB stereo

Output: Variable 1.2 V,

2.5 kohms

Antenna input impedance:

75 ohms unbalanced,

300 ohms balanced

AM Section

Usable sensitivity:

50 dB/m

Signal-to-noise ratio:

65 dB

Special features: Double

output connections; auto-

stereo/mono switch; FM

multipath meter enables

perfect aerial orientation;

completely separate AM and

FM controls with red/green

illumination and consequent

duplication of controls such

as tuning knob and variable

IF bandwidth

Size: 480×197×450 mm

(without handles)

Weight: 16.2 kg

Typical UK price: £460

UK importer/distributor:

Sansui Audio Europe NV,
Unit 10A, Lyon Industrial
Estate, Rockware Avenue,
Greenford, Middlesex
UB6 0AA

SONY ST J88

Wavebands: FM

FM Section

50 dB Quieting Sensitivity in

Mono: 3.2 μ V

Stereo: Unspecified

Frequency response:

30 Hz–15 kHz+0.2 dB

–0.5 dB

Total harmonic distortion
measured in stereo at

100 Hz: 0.07% (normal),
0.3% (narrow)

1 kHz: 0.07% (normal),
0.3% (narrow)

6 kHz: 0.15% (normal),
0.6% (narrow)

Capture ratio: 1 dB
(normal), 1.7 dB (narrow)

Alternate channel

selectivity: Unspecified

Spurious response ratio:
110 dB

Image response ratio:
Unspecified

IF response ratio: 110 dB

AM suppression: 60 dB

Stereo separation
measured at 1 kHz: 50 dB
(normal), 45 dB (narrow)

10 kHz: 45 dB (normal),
40 dB (narrow)

Signal-to-noise ratio:
75 dB mono, 70 dB stereo

Output: Unspecified

Antenna input impedance:
75 ohms unbalanced,
300 ohms balanced

Special features: Fully
synthesized; seven preset
stations; autotuning;
adjustable selectivity; power-
off station memory; digital
frequency readout

Size: 480×80×370 mm

Weight: 6.7 kg

Typical UK price:

Unspecified

UK importer/distributor:

Sony UK, Pyrene House,
Sunbury, Middlesex; Sony
Showrooms, 134 Regent
Street, London W1

TECHNICS ST9038

Wavebands: FM

FM Section

50 dB Quieting Sensitivity:

Unspecified

30 dB/75 ohm sensitivity:

1.2 μ V



Sony ST J88



Technics ST9038



Trio KT917



Yamaha CT-7000

Frequency response:

20 Hz–18 kHz+0.1 dB

–0.5 dB

Total harmonic distortion
measured in stereo at

1 kHz: 50 dB (wide), 40 dB
(narrow)

Capture ratio: 0.8 dB

(wide), 2 dB (narrow)

Alternate channel

selectivity: 25 dB (wide),
90 dB (narrow)

Spurious response ratio:
135 dB

Image response ratio:
135 dB

IF response ratio: 135 dB

AM suppression:

Unspecified

Stereo separation

measured at 1 kHz: 50 dB
(wide), 40 dB (narrow)

Output: 0–1.5 V variable,
0.7 V fixed

Antenna input impedance:
Unspecified

Special features: All-
electronic quartz synthesizer
tuning system; variable mute;
auto hi-blend switch;
optional microprocessor unit
in matching slim case
containing timer and preset
station functions

Size: 450×92×370 mm

Weight: 7.4 kg

Typical UK price: £340

UK importer/distributor:

Panasonic (UK) Ltd,
107–109 Whitby Road,
Slough, Berkshire SL1 3DR

TRIO KT917

Wavebands: FM

FM Section

50 dB Quieting Sensitivity in

Mono: 1.7 μ V

Stereo: Unspecified

Frequency response:

10 Hz–16 kHz+0.2 dB

–0.5 dB

Total harmonic distortion
measured in stereo at

1 kHz: 0.02% (wide), 0.04%
(normal), 0.2% (narrow)

Capture ratio: 0.8 dB

Alternate channel

selectivity:

30 dB (wide) \pm 300 kHz

50 dB (normal) \pm 300 kHz

80 dB (narrow) \pm 300 kHz

Spurious response ratio:
125 dB

Image response ratio:
125 dB

IF response ratio: 125 dB

AM suppression: 70 dB

Stereo separation

measured at 1 kHz: 46 kHz

deviation, 1 mV input:

58 dB (wide)

50 dB (normal)

45 dB (narrow)

Signal-to-noise ratio:

84 dB (stereo, IHF A)

Output: Unspecified

Antenna input impedance:

Unspecified

Special features: Three

position variable IF

bandwidth; distortion

detection loop

Size: 460×161×463 mm

Weight: 15 kg

Typical UK price: £785

UK importer/distributor:

B H Morris & Co (Radio) Ltd.

Precision Centre, Heather

Park Drive, Wembley,

Middlesex HA0 1SU

YAMAHA CT-7000

Wavebands: FM

FM Section

50 dB Quieting Sensitivity:

Unspecified

Sensitivity: 1.6 μ V (mono

DIN)

Frequency response:

30 Hz–15 kHz+0.5 dB

–1 dB

Total harmonic distortion:

0.04% (IHF 400 Hz/75 kHz

deviation)

Capture ratio: 0.7 dB

Alternate channel

selectivity: 85 dB

Spurious response ratio:

120 dB

Image response ratio:

120 dB

IF response ratio: 120 dB

AM suppression: 60 dB

Stereo separation: 50 dB

(IHF 400 Hz, 75 kHz

deviation)

Output: Unspecified

Antenna input impedance:

Unspecified

Special features: Variable

output and muting levels;

wide/narrow IF mode;

switchable autoblend

Size: 436×144×318 mm

Weight: 13 kg

Typical UK price: £745

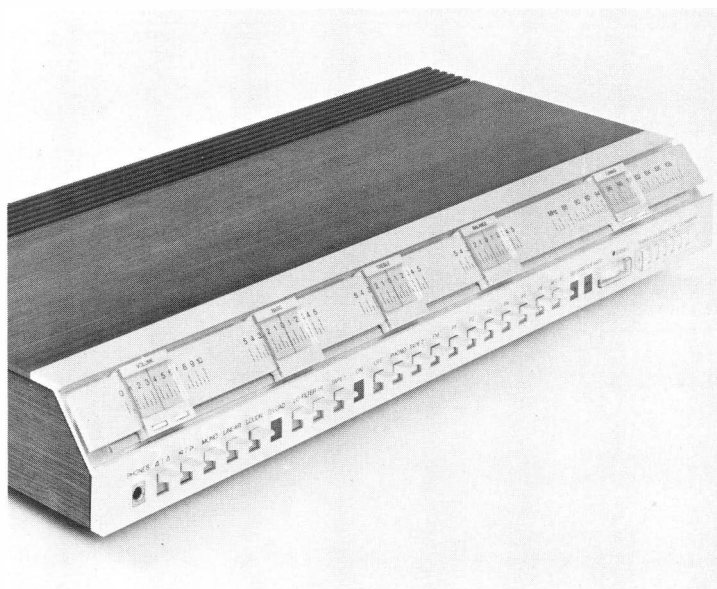
UK importer/distributor:

Natural Sound Systems Ltd,

10 Byron Road, Wealdstone,

Harrow, Middlesex HA7 3TL

TUNER-AMPLIFIERS



B&O 4400

AIWA AX-7700

Preamplifier

Inputs: Phono, aux, tape

Input sensitivity:

Phono: 2.5 mV (47 kohms

resistance)

Aux tape: 150 mV (470 kohms

resistance)

Phono overload level:

150 mV

Frequency response:

Phono: 30 Hz–15 kHz

+0.5 dB–0.5 dB

Stereo separation: 40 dB

(aux, tape)

Signal-to-noise ratio:

Phono: 72 dB

Aux tape: 90 dB

Tone controls: Bass \pm 9 dB

at 100 Hz; Treble \pm 9 dB at

10 kHz; Loudness control

+9 dB at 100 Hz+2 dB at

10 kHz

Power amplifier

Maximum power output:

40 watts per channel rms

into 8 ohms 20 Hz–20 kHz

Total harmonic distortion:

0.09% at rated power output

Intermodulation

distortion: 0.09% at rated

power output

Tuner

Wavebands: FM, MW, LW

FM sensitivity: 38.1 dBf

for 50 dB Quieting; 1.4 μ V

(Mono for 26 dB S/N ratio/

300 ohms input)

FM frequency response:

30 Hz–15 kHz+0.5 dB–2 dB

FM capture ratio: 1.5 dB

FM selectivity: 65 dB

(IHF)

Special features: Two

speaker pairs; low and high

filters; FM mute switches

Size: 450×120×385 mm

Weight: 9.5 kg

Typical UK price: £200

UK importer/distributor:

Aiwa Sales and Service (UK)

Ltd, 30–32 Concord Road,

Western Avenue, London

W3 0TH

B&O 4400

Preamplifier

Inputs: Phono, aux, tape

Input sensitivity:

Phono: 2.2 mV (47 kohms

resistance); Tape: 200 mV

(470 kohms resistance)

Frequency response:

20 Hz–35 kHz (all inputs)

Stereo separation: 35 dB

(FM only)

Signal-to-noise ratio:

Phono: 85 dB; Tape: 85 dB

Tone controls: Bass and

treble controls (slider

cursor); also switchable low

and high filters and loudness

contour designed to

compensate for low level

listening

Power amplifier

Maximum power output:

50 watts rms per channel into

8 ohms 20 Hz–20 kHz

Total harmonic distortion:

0.05%

Intermodulation

distortion: 0.1%

Tuner

Wavebands: FM

FM sensitivity: 20 μ V for

46 dB S/N ratio with 75 ohm

input

FM frequency response:

20 Hz–15 kHz \pm 1.5 dB

Pilot tone suppression: 65 dB for 19 kHz and 100 dB for 38 kHz
FM capture ratio: Unspecified
FM selectivity: Unspecified
Size: 575×95×280 mm
Weight: 10 kg
Typical UK price: £429
UK importer/distributor: Bang and Olufsen UK Ltd, Eastbrook Road, Gloucester GL4 7DE

B&O BEOMASTER 1700

Preamplifier

Inputs: Phono, aux, tape
Phono overload level: 80 mV (Input sensitivity: 2 mV/47 kohms resistance)
Frequency response: 20 Hz–30 kHz±1.5 dB (all inputs)

Signal-to-noise ratio: Phono: 81 dB; Tape: 81 dB
Tone controls: Bass: ±12 dB at 40 Hz; Treble: ±12 dB at 12.5 kHz

Power amplifier

Maximum power output: 18 watts rms per channel into 8 ohms 20 Hz–20 kHz
Total harmonic distortion at rated output: 0.4%
Intermodulation distortion: 0.65%

Tuner

Wavebands: FM, LW, MW
FM sensitivity: 25 µV for 46 dB S/N ratio with 75 ohms input
FM frequency response: 20 Hz–15 kHz±1.5 dB
Pilot suppression: 55 dB for 38 kHz and 45 dB for 19 kHz

FM capture ratio:

Unspecified
FM selectivity: Unspecified
Special features: Slimline appearance; ultralight touch switches; preset tuning for five FM stations and one AM station

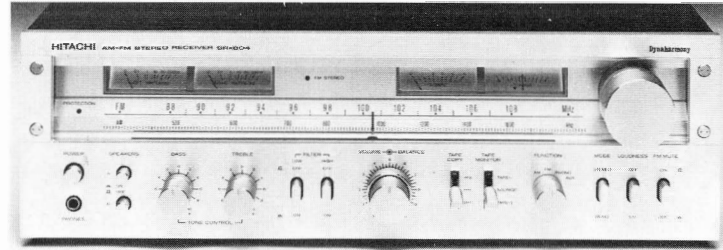
Size: 600×100×240 mm
Weight: 7.2 kg
Typical UK price: Unspecified

UK importer/distributor: Bang and Olufsen UK Ltd, Eastbrook Road, Gloucester GL4 7DE

EAGLE A7400

Preamplifier

Inputs: Moving magnet phono cartridge, aux, tape



Hitachi SR804



JVC JRS 201 L

Phono sensitivity: 3 mV (47 kohms resistance)
Frequency response: 20 Hz–35 kHz
Stereo separation: –56 dB (all inputs)
Signal-to-noise ratio: Phono: 60 dB; Aux and tape: 80 dB

Tone controls: Bass: ±10 dB at 100 Hz; Treble: ±10 dB at 10 kHz (also high filter –6 dB at 10 kHz); Loudness contour: +4 dB at 100 Hz and +3 dB at 10 kHz

Power amplifier

Maximum power output: 30 watts rms per channel into 8 ohms 40 Hz–16 kHz
Total harmonic distortion measured at rated output at 1 kHz: 0.02%
Power bandwidth: 8 Hz–40 kHz

Tuner

Wavebands: FM, MW
FM sensitivity: 2.2 µV for 30 dB quieting
FM frequency response: 20 Hz–15 kHz±2 dB
FM stereo separation: 30 dB at 1 kHz
FM capture ratio: Better than 3 dB
Signal-to-noise ratio: 60 dB

Size: 430×276×117 mm
Weight: Unspecified
Typical UK price: £123
UK importer/distributor: Eagle International, Precision Centre, Heather Park Drive, Wembley, Middlesex HA0 1SU

HITACHI SR804

Preamplifier

Inputs: Phono, aux, 2 tape
Input sensitivity: Phono: 2.5 mV (47 kohms resistance); Aux and tape: 150 mV (50 kohms resistance)

Phono overload level: 250 mV

Frequency response: Phono: RIAA curve±0.5 dB; Aux and tape: 10 Hz–40 kHz ±1 dB

Stereo separation: Unspecified

Signal-to-noise ratio: Phono: 75 dB; Aux and tape: 90 dB

Tone controls: Bass: ±10 dB at 100 Hz; Treble: ±10 dB at 10 kHz; High and low filters (6 dB per octave roll-off rates) and loudness control with +9 dB at 100 Hz and +4 dB at 10 kHz

Power amplifier

Maximum power output: 50 watts per channel rms into 8 ohms (20 Hz–20 kHz)
Total harmonic distortion: 0.1% at rated output

Intermodulation distortion: Unspecified

Tuner

Wavebands: FM, MW
FM sensitivity: 1.64 µV (usable)

FM frequency response: Unspecified

FM stereo separation: 45 dB at 1 kHz

FM capture ratio: 1 dB
FM selectivity: Unspecified

Special features:

Dynaharmony power amplifier enables peak transients of 100 watts; two-way tape dubbing; two pairs of speakers; FM mute
Size: 460×145×360 mm
Weight: 10.1 kg
Typical UK price: £239
UK importer/distributor: Hitachi Sales (UK) Ltd, Hitachi House, Station Road, Hayes, Middlesex UB3 4DR

JVC JRS 201 L

Preamplifier

Inputs: Phono, 2 tape
Input sensitivity: Phono: 2.5 mV (47 kohms resistance); Tape: 150 mV (50 kohms resistance)

Phono overload: 180 mV at 1 kHz for 0.03% THD

Frequency response: Phono: 20 Hz–20 kHz ±0.02 dB; Tape: 5 Hz–40 kHz+0 dB–1 dB

Signal-to-noise ratio: Phono: 75 dB; Tape: 95 dB

Tone controls: SEA graphic equalizer with centre frequencies at 40 Hz, 250 Hz, 1 kHz, 5 kHz, 15 kHz (±12 dB range)

Power amplifier

Maximum power output: 35 watts per channel rms into 8 ohms 20 Hz–20 kHz
Total harmonic distortion: 0.1% at 1 kHz (half power)

Intermodulation distortion: 0.01% at rated power output

Tuner

Wavebands: FM, MW, LW
FM sensitivity: 39.7 µV for 50 dB Quieting Sensitivity; 1 µV Usable Sensitivity (75 ohms)

FM frequency response: 20 Hz–15 kHz+0.3 dB –0.8 dB

FM capture ratio: 1 dB

FM selectivity: 80 dB
Special features: Subsonic filter; loudness, mono switches; two-way tape dubbing; two pairs of speaker sockets

Size: 166×500×382 mm
Weight: 11 kg

Typical UK price: £295
UK importer/distributor: JVC (UK) Ltd, Eldonwall Trading Estate, Staples Corner, 6–8 Priestley Way, London NW2 7AF

MARANTZ SR4000**Preamplifier**

Inputs: Phono, tape/aux
Phono sensitivity: 2.1 mV (47 kohms resistance)
Frequency response: Phono: RIAA±1 dB; Aux: 18 Hz–30 kHz±1 dB
Stereo separation at 1 kHz: Phono: 38 dB; Aux: 50 dB

Tone controls: Bass, midrange and treble (also low filter and loudness control)

Signal-to-noise ratio: 65 dB unweighted mono

Power amplifier

Maximum power output: 50 watts per channel rms into 8 ohms 20 Hz–20 kHz
Total harmonic distortion: 0.03% at rated output
Damping factor: 60

Tuner

Wavebands: FM, MW, LW
FM sensitivity: 0.8 µV for 26 dB S/N ratio mono; 21.5 µV for 46 dB S/N ratio stereo

FM frequency response: Unspecified

FM capture ratio: Unspecified

FM selectivity: 68 dB

Special features: Gyrotouch tuning and tape dubbing selector

Size: 466×140×353 mm

Weight: 10 kg

Typical UK price: £219

UK importer/distributor: Marantz Audio Ltd (UK), 203 London Road, Staines, Middlesex

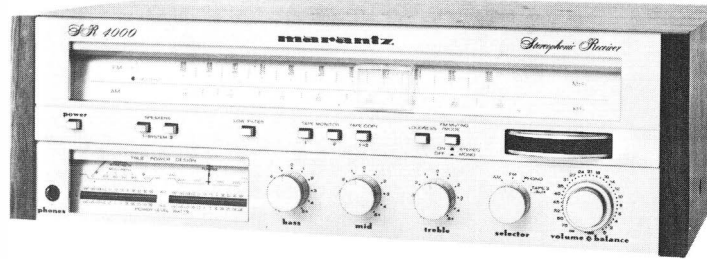
NAD 7020**Preamplifier**

Inputs: Phono, aux, tape
Input sensitivity: Phono: 2.5 mV (at maximum output); High level input: Unspecified
Frequency response: 20 Hz–20 kHz±0.5 dB (for all high level inputs)
Signal-to-noise ratio: 90 dB (high level inputs); 75 dB (phono)

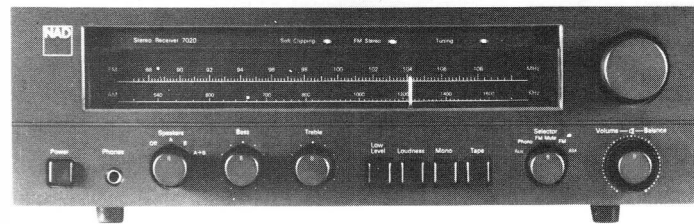
Tone controls: Bass and treble plus subsonic filter with 24 dB per octave roll-off producing –3 dB at 15 Hz, and an ultrasonic filter with 12 dB per octave roll-off slope producing –3 dB at 35 kHz

Power amplifier

Maximum power output:



Marantz SR4000



NAD 7020



Rotel RX-1000

20 watts continuous average power (IHF–A202) with no more than rated distortion
Total harmonic distortion: 0.02% (20 Hz–20 kHz, at rated output)

Intermodulation distortion: 0.02% (SMPTe, IHF and transient, measured at rated output)

Tuner

Wavebands: FM, MW
FM sensitivity: 3.5 µV (16 dBf) for 50 dB Quieting
FM frequency response: 30 Hz–15 kHz±0.5 dB

FM capture ratio: Unspecified
FM selectivity: 65 dB alternate channel

Size: Unspecified
Weight: Unspecified
Typical UK price: £150
UK importer/distributor: NAD Sales, Unit 3, Colonial Way, Watford, Hertfordshire

NYTECH CTA252 XD II**Preamplifier**

Inputs: Phono, tape
Input sensitivity: Phono: Three alternative pcbs available with 2 mV moving magnet sensitivity, or 150 µV

or 70 µV moving coil cartridge sensitivity
 Tape: 100 mV

Frequency response: Unspecified

Signal-to-noise ratio: Phono: 54–65 dB (depending on sensitivity chosen); Tape: 75 dB; Amplifier: 90 dB

Tone controls: Bass, midrange and treble, plus loudness contour

Power amplifier
Maximum power output: 25 watts into 8 ohms, 40 watts into 4 ohms with 25 V/usec slew rate

Total harmonic distortion: Less than 0.1%
Intermodulation distortion: Less than 0.1%

Tuner

Wavebands: FM
FM sensitivity: 2µV IHF
FM frequency response: 30 Hz–15 kHz
FM capture ratio: 1.5 dB
FM selectivity: 60 dB

Size: 210×345×117 mm
Weight: 4.5 kg
Typical UK price: £299
UK importer/distributor: Nytech Audio, High Street, Chew Magna, Bristol

ROTEL RX-1000**Preamplifier**

Inputs: Phono, aux, 2 tape
Input sensitivity: Unspecified
Frequency response: 4 Hz–40 kHz+0 dB–1 dB
Tone controls: Bass, treble, loudness, subsonic filter

Power amplifier

Maximum power output: 35 watts per channel rms into 8 ohms 20 Hz–20 kHz
Total harmonic distortion: 0.06% (20 Hz–20 kHz)

Intermodulation distortion: Unspecified

Tuner

Wavebands: FM, MW, (LW included as standard in UK)

FM sensitivity: 3.5 µV (50 dB quieting sensitivity); 1.9 µV (usable sensitivity, mono, 300 ohms input)

FM frequency response: Unspecified

FM capture ratio: 1.5 dB

FM selectivity: 60 dB

Special features: Two pairs of speaker sockets; FM mute; tape dubbing

Size: 430×98×290 mm

Weight: 7.7 kg

Typical UK price: £150

UK importer/distributor: Rotel, 2–4 Erica Road, Stacy Bushes, Milton Keynes, Buckinghamshire

SANSUI R70**Preamplifier**

Inputs: Phono, aux, tape
Input sensitivity: Phono: 2–5 mV (47 kohms resistance)
 Aux/tape: 150 mV (47 kohms resistance)
Phono overload level: 100 mV

Frequency response: 10 Hz–50 kHz overall +1 dB–3 dB

Signal-to-noise ratio: 73 dB (phono); 90 dB (tape, aux)

Tone controls: Bass, treble, high filter and loudness

Power amplifier

Maximum power output: 65 watts rms per channel (20 Hz–20 kHz)
Total harmonic distortion: 0.8%

Intermodulation distortion: Unspecified

Tuner

Wavebands: FM, MW

FM selectivity: 55 dB
Size: 430×147×252 mm
Weight: 7.5 kg
Typical UK price: £155
UK importer/distributor:
 Sansui Audio Europe NV,
 Unit 10A, Lyon Industrial
 Estate, Rockware Avenue,
 Greenford, Middlesex
 UB6 0AA

SONY STR 434L

Preamplifier

Inputs: Phono, 2 tape
Input sensitivity:
 Phono: 2.5 mV (50 kohms
 resistance)
 Tape: 150 mV (50 kohms
 resistance)
Frequency response:
 Phono: RIAA equalization
 curve ± 1 dB; Tape: 10 Hz–
 40 kHz+0.5 dB–3 dB

Stereo separation:
 Unspecified

Signal-to-noise ratio:

Phono: 80 dB; Tape 95 dB

Tone controls: Bass and
 treble (high and low filters
 and loudness controls)

Power amplifier

Maximum power output:
 40 watts per channel into
 8 ohms (20 Hz–20 kHz)

Total harmonic distortion:
 0.07% at rated output

Tuner

Wavebands: FM, MW, LW,
 SW

FM sensitivity: 1.8 μ V
 (IHF)

FM frequency response:
 30 Hz–15 kHz+0.5 dB–2 dB

FM capture ratio: 1 dB

FM selectivity: 55 dB

Special features: One touch
 programme sensor as an
 alternative to manual tuning;
 visual display of station
 location; digital display of
 frequency; facility for two
 speaker pairs

Size: 430×145×310 mm

Weight: 9.3 kg

Typical UK price: £285

UK importer/distributor:

Sony UK, Pyrene House,
 Sunbury, Middlesex; Sony
 Showrooms, 134 Regent
 Street, London W1

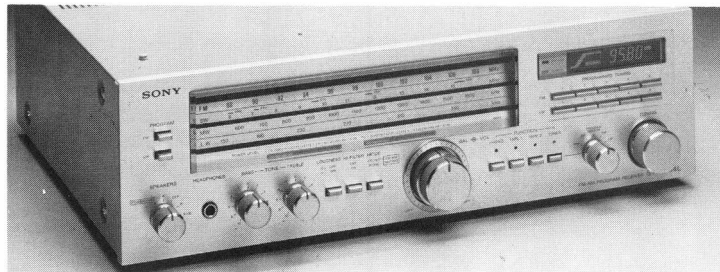
TECHNICS SA-700

Preamplifier

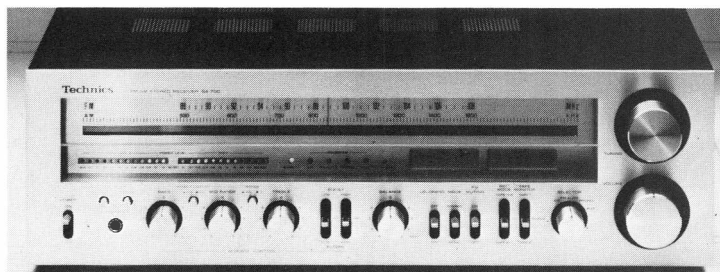
Inputs: Phono, aux, 2 tape
Input sensitivity: Phono:
 2.5 mV (47 kohms resistance);
 Tape 2: 150 mV (47 kohms



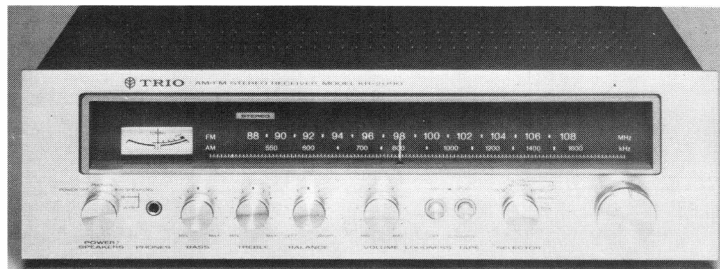
Sansui R70



Sony STR434L



Technics SA-700



Trio KR-2090

resistance); Tape 1: 180 mV
 (47 kohms resistance)

Frequency response:

Phono: RIAA standard
 ± 0.2 dB; Aux: 20 Hz–
 20 kHz+0 dB–0.3 dB

Signal-to-noise ratio:

Phono: 75 dB (83 dB IHF
 A); Aux: 88 dB (95 dB
 IHF A)

Tone controls: Bass ± 12 dB
 at 50 Hz; Treble: ± 12 dB at
 20 kHz; Midrange: ± 7 dB at
 11 kHz

Power amplifier

Maximum power output:
 100 watts per channel rms
 into 8 ohms 20 Hz–20 kHz

Total harmonic distortion:
 0.04% (at rated power 20 Hz–
 20 kHz)

**Intermodulation
 distortion:** 0.04% at rated

power

Tuner

Wavebands: FM, MW

FM sensitivity: 1.6 μ V for
 26 dB S/N 300 ohms input

FM frequency response:
 20 Hz–15 kHz+0.2 dB
 –0.8 dB

FM capture ratio: 1 dB

FM selectivity: 80 dB

Special features: Two-way
 tape dubbing; two pairs
 speaker sockets

Size: 510×160×390 mm

Weight: 16.1 kg

Typical UK price: £483

UK importer/distributor:

Panasonic (UK) Ltd, 107–109
 Whitby Road, Slough, Berks

TRIO KR-2090

Preamplifier

Inputs: Phono, aux, tape

Input sensitivity: Phono:
 2.5 mV (50 kohms
 resistance); Tape, aux:
 150 mV (47 kohms
 resistance)

Frequency response:

Unspecified

Stereo separation:

Unspecified

Signal-to-noise ratio:

Phono: 76 dB; Aux, tape:
 100 dB

Tone controls: Bass ± 8 dB
 at 100 Hz; Treble: ± 8 dB at
 10 kHz; Loudness contour:
 Bass +10 dB (at 100 Hz
 with overall –30 dB muting)

Power amplifier

Maximum power output:
 16 watts rms per channel into
 8 ohms 20 Hz–20 kHz

Total harmonic distortion:

0.05% at rated power output

Intermodulation

distortion: 0.1% at rated
 power output

Tuner

Wavebands: FM, MW

FM sensitivity: 3.3 μ V (for
 50 dB quieting slope);
 1.3 μ V (mono, 40 kHz
 deviation for 26 dB S/N
 ratio, 300 ohm input)

FM frequency response:
 20 Hz–15 kHz

FM capture ratio: 1.5 dB

FM selectivity: 54 dB

Special features: Long
 Wave version available at an
 extra cost of about £30

Size: 468×140×348 mm

Weight: 7.2 kg

Typical UK price: £129

UK importer/distributor:

B H Morris and Co (Radio)
 Ltd, Precision Centre,
 Heather Park Drive,
 Wembley, Middlesex
 HA0 1SU

AMPLIFIERS



EEl Townshend 600C



Exposure III/IV

EEl TOWNSHEND 600C

Inputs: Moving magnet, moving coil phono cartridge, tuner, tape

Input sensitivity: Moving magnet: 3 mV (47 kohm resistive variable capacitive load between 50, 150 and 270 pF); Moving coil: 100 uV

Phono overload level: At 20 Hz: 20 dB (moving magnet), 21 dB (moving coil); At 1 kHz: 40 dB (moving magnet), 37 dB (moving coil); At 20 kHz: 68 dB (moving magnet), 52 dB (moving coil)

Total harmonic distortion: 0.08% at 1 kHz

Intermodulation

distortion: Unspecified

Frequency response: Moving coil: 7 Hz–70 kHz –3 dB (low level stage); Moving magnet: 0.1 Hz–40 kHz –3 dB (RIAA stage); Moving coil overall: 10 Hz–60 kHz (–3 dB)

Tone controls: None except subsonic filter switchable between 2 Hz and 20 Hz cut-off frequency

Signal-to-noise ratio: 70 dB for 100 uV moving coil input

Gain: 80 dB at 1 kHz through moving coil input; 48 dB at 1 kHz using moving magnet input

Size: 100×45×300 mm

Weight: 1.5 kg

Typical UK price: £178

UK importer/distributor:

Elite Electronics, 32 Cottimore Lane, Walton-on-Thames, Surrey KT12 1NF

EXPOSURE III/IV

Inputs: Magnetic/moving coil phono cartridge optional, tape

Input sensitivity: Unspecified

Phono overload level: 50 dB (all other inputs 40 dB)

Total harmonic distortion: 0.002%

Intermodulation distortion: Unspecified
Frequency response: Unspecified

Tone controls: None provided as they are claimed to affect transient performance and distortion

Other features: Hum and noise greater than 80 dB; construction in steel with matt stove finish; coloured black; RIAA boards modified for correct loading of cartridges, on request; gold-plated edge connectors throughout; 12-stage voltage regulation in power supply

Power amplifier

Maximum power output: 70 watts rms; 250 VA transient capability; 40 amps output peak to allow for low impedance

Total harmonic distortion measured at rated output at 20 Hz: 0.0002% (both channels or one channel driven, typically)

1 kHz: 0.002% (both channels or one channel driven, typically)

20 kHz: 0.002% (both channels or one channel driven, typically)

Intermodulation distortion: Unspecified

Frequency response: 10 Hz–20 kHz±0.5 dB

Signal-to-noise ratio: Unspecified

Size: Unspecified

Typical UK price: £575 for Exposure III and Exposure IV combination

UK importer/distributor: Exposure Electronics, Richardson Road, Hove, Sussex

HAFLER DH-101/ DH-200

Inputs: 2 phono, tuner, aux.

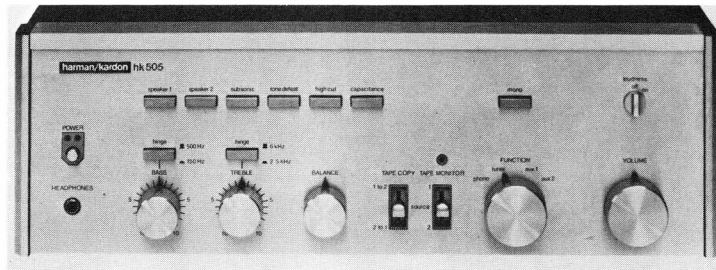
2 tape
Input sensitivity:
 Unspecified
Phono overload level:
 180 mV at 1 kHz, 1.8 V at 20 kHz
Total harmonic distortion:
 Less than 0.0006% at 1 kHz and 3 V output
Input impedance: 47 kohm with 270 pF in parallel
Intermodulation distortion: Unspecified (claimed to be below residual of currently available measuring instruments)
Frequency response: 40 Hz–15 kHz (± 0.5 dB, phono preamp); 20 Hz–20 kHz (+0–0.25 dB, tone control/high level amplifier)
Hum and noise: 86 dB below 10 mV for 1 kHz input 'A' weighted
Tone controls: Bass +12 dB at 50 Hz; Treble +10 dB at 20 kHz
Other features: 12 V per usec slew rate
Power amplifier
Maximum power output: 100 watts per channel (into 8 ohms from 20 Hz–20 kHz)
Power bandwidth: Unspecified
Total harmonic distortion at 1 kHz: 0.0015% (at rated output)
10 kHz: 0.005% (at rated output)
20 kHz: 0.009% (at rated output)
Frequency response: 10 Hz–40 kHz at 100 watts
Damping factor: 150 at 1 kHz, 8 ohms; 50 at 10 kHz into 8 ohms
Signal-to-noise ratio: Unspecified
Slew rate: 30 V per usec at 10 kHz
Size: 350×82.5×213 mm
Weight: 4 kg for DH-101 (DH-200 unspecified)
Typical UK price: £667
UK importer/distributor: Howland West, 3/5 Eden Grove, London N7 8EQ

HARMAN KARDON HK505

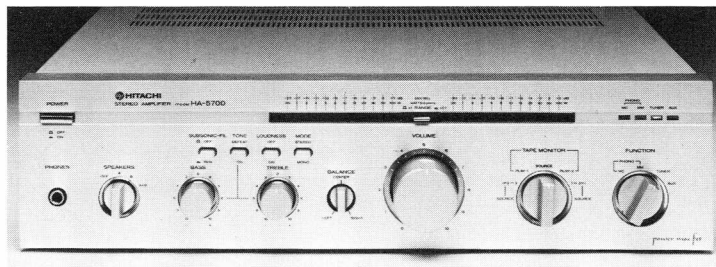
Inputs: Phono, aux, tuner, 2 tape
Input sensitivity: Phono: 2.2 mV; Aux: 180 mV
Phono overload level: Greater than 150 mV
Total harmonic distortion:



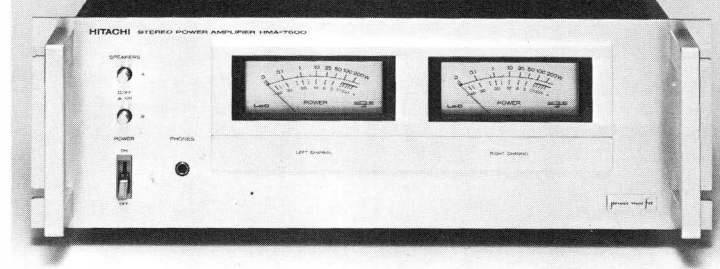
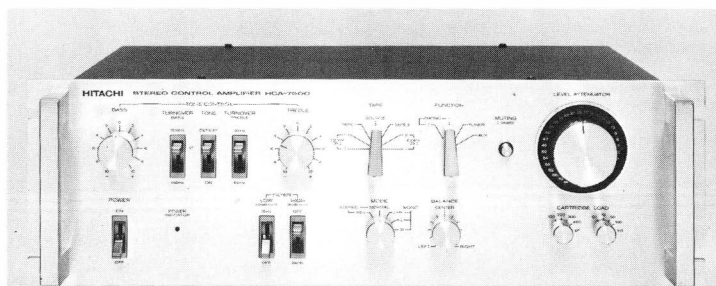
Hafler DH-101/DH-200



Harman Kardon HK505



Hitachi HA-5700



Hitachi HCA7500/HMA7500



JVC A-X9

0.03% (overall) at rated output
Intermodulation distortion: 0.02% (Interface); 0.02% (Transient)
Frequency response: Below 3 Hz–100 kHz –3 dB at rated output
Tone controls: Bass and treble
Other features: Three position tape monitor, tape copy facility; subsonic 12 dB per octave filter; DC-coupled, four stage phono preamplifier
Power amplifier
Maximum power output: 57 watts per channel into 8 ohms DIN 45500 with no more than 0.08% THD
Power bandwidth: 10 Hz–100 kHz at 8 ohms
Slew rate: 65 V/usec
Damping factor: Greater than 30 at 8 ohms
Signal-to-noise ratio: Phono: –88 dB; Aux: 100 dB
Size: 133×425×349 mm
Weight: 10 kg
Typical UK price: £305
UK importer/distributor: Harman Audio (UK) Ltd, St John's Road, Tylers Green, High Wycombe, Bucks

HITACHI HA-5700

Inputs: Phono, tuner, aux, 2 tape
Input sensitivity: Moving magnet: 2.5 mV; Moving coil: 250 μ V; All other inputs: 150 mV
Phono overload level: Moving magnet: 300 mV; Moving coil: 30 mV
Total harmonic distortion: 0.02% rated
Intermodulation distortion: Unspecified
Frequency response: DC – 100 kHz (+0 dB –1 dB)
Tone controls: Bass ± 10 dB (at 100 Hz); Treble: 10 kHz (± 10 dB at 10 kHz)
Other features: Two-way tape to tape dubbing; subsonic filter; tone defeat; loudness; mono switches
Power amplifier
Maximum power output: 50 watts per channel (into 8 ohms from 20 Hz–20 kHz)
Power bandwidth: 5 Hz–60 kHz
Signal-to-noise ratio: Moving magnet: 82 dB; Moving coil: 62 dB

Size: 435×110×383 mm
Weight: 12 kg
Typical UK price: £175
UK importer/distributor:
 Hitachi UK, Hitachi House,
 Station Road, Hayes,
 Middlesex

HITACHI HCA7500/ HMA7500

Inputs: 2 Phono, tuner, aux,
2 tape

Input sensitivity: Phono:
2 mV; All other inputs:
100 mV

Phono overload level:
350 mV for 0.01% THD at
1 kHz

Total harmonic distortion:
Phono 1, 2: 0.01% (Rec out
level at 5 V); Tuner aux, tape
1, 2 play: 0.01% (Rec out
level 5 V)

**Intermodulation
distortion:** Unspecified

Frequency response:
Phono 1, 2: 20 Hz–20 kHz
±0.2 dB; All other inputs:
5 Hz–100 kHz +0 dB–1 dB

Tone controls: Bass:
±10 dB at 50 Hz or 100 Hz
switchable turnover
frequency between 150 and
30 Hz); Treble ±10 dB at
10 kHz or 20 kHz
(switchable turnover
frequency between 3 and
6 kHz); also low and high
filters and tone defeat; two
way tape dubbing

Power amplifier

Maximum power output:
75 watts rms per channel into
8 ohms from 20 Hz–20 kHz
with no more than 0.01%
THD

Power bandwidth: 5 Hz–
100 kHz for 0.05% THD

Signal-to-noise ratio:
Phono 1, 2: 87 dB; all other
inputs: 100 dB (IHF 'A')

**Total harmonic distortion
measured at rated output
at 20 Hz:** 0.01%
1 kHz: 0.01%
20 kHz: 0.01%

**Intermodulation
distortion measured at
40 watts output:** 0.003%

Rated output: 0.01%
Frequency response: DC –
200 kHz (+0–1 dB)

switchable subsonic filter
reduces power bandwidth to
6 Hz–200 kHz (+0–1 dB)

Damping factor: 60 from
20 Hz–20 kHz

Signal-to-noise ratio:
120 dB IHF 'A' network

Size: 480×166×355 mm
Weight: 23 kg for HCA7500
 plus HMA7500

Typical UK price: £670
UK importer/distributor:
 Hitachi UK, Hitachi House,
 Station Road, Hayes,
 Middlesex

JVC A-X9

Inputs: Moving magnet,
moving coil phono cartridges,
tuner, aux, 2 tape

Input sensitivity: Moving
magnet: 2.5 mV; Moving coil:
200 µV; Tuner, aux, tape:
200 mV

Phono overload level:
Moving magnet: 350 mV
Moving coil: 26 mV

Total harmonic distortion:
0.005% at rated output into
8 ohms 20 Hz–20 kHz;
0.007% overall through phono
input

**Intermodulation
distortion:** 0.002% at rated
output into 8 ohms

Frequency response: DC –
200 kHz (+0 dB–3 dB)

Tone controls: Bass and
treble: Tone defeat switch
provided; Bass ±8 dB at
100 Hz, Treble ±8 dB at
10 kHz

Power amplifier

Maximum power output:
100 watts rms per channel
into 8 ohms 20 Hz–20 kHz
with no more than 0.0005%
THD

Power bandwidth: 5 Hz–
100 kHz (IHF, both channels
driven into 8 ohms, 0.02%
THD)

Damping factor: 200
(1 kHz, 8 ohms)

Signal-to-noise ratio:
Moving magnet: 85 dB
(IHF A); Moving coil: 71 dB
(IHF A); Tuner, aux, tape:
110 dB (IHF A)

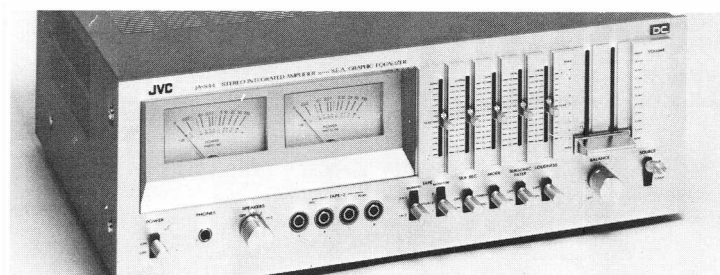
Size: 159×450×424 mm
Weight: 16.6 kg

Typical UK price: £571
UK importer/distributor:
 JVC (UK) Ltd, Eldonwall
 Trading Estate, Staples
 Corner, 6–8 Priestley Way,
 London NW2

JVC JAS44

Inputs: Phono, aux, tuner,
2 tape

Input sensitivity: Phono:
2.5 mV; All other inputs:
200 mV



JVC JAS44



Lux L-11

Phono overload level:
200 mV

Total harmonic distortion:
0.005% at 45 watts output;
0.02% at 1 watt output

**Intermodulation
distortion:** 0.01% at 45
watts output

Frequency response: 5 Hz–
100 kHz +0 dB–2 dB

Tone controls: Graphic
equalizer SEA system with
centre frequencies at 40 Hz,
250 Hz, 1 kHz, 5 kHz and
15 kHz

Other features: Tape to
tape dubbing; class A phono
equalizer circuit

Power amplifier

Maximum power output:
45 watts rms per channel into
8 ohms from 20 Hz–20 kHz
with no more than 0.02% THD

Power bandwidth:
Unspecified

Damping factor: 30 from
20 Hz–20 kHz at 8 ohms

Signal-to-noise ratio:
Phono: 80 dB; All other
inputs: 92 dB at 10 mV input
Size: 149×420×317 mm

Weight: 10 kg
Typical UK price: £216

UK importer/distributor:
 JVC (UK) Ltd, Eldonwall
 Trading Estate, 6–8 Priestley
 Way, Staples Corner, London
 NW2

LUX L-11

Inputs: 2 phono, tuner,
aux, 2 tape

Input sensitivity: Phono
1, 2: 2.5 mV; All other inputs:
150 mV; Pre-out, main-in:

1.6 V

Phono overload level:
160 mV at 1 kHz

Total harmonic distortion:
Unspecified

**Intermodulation
distortion:** Less than 0.02%
at rated power output into
8 ohms

Frequency response:
Phono: 20 Hz–20 kHz
(±0.2 dB); Tuner, aux, tape:
10 Hz–90 kHz (+0 dB–1 dB)

Tone controls: Linear
equalizer tilt control and
subsonic filter which has a
roll-off rate of 12 dB per
octave at either 10 Hz or
20 Hz cut-off frequencies
(switchable)

Power amplifier

Maximum power output:
100 watts per channel (into
8 ohms from 20 Hz–20 kHz)

Power bandwidth:
Unspecified

Signal-to-noise ratio:
Phono: 92 dB (IHF A
weighted 10 mV); All other
inputs: 100 dB (IHF A
weighted)

Size: 438×395×125 mm
Weight: 18.5 kg

Typical UK price: £598
UK importer/distributor:
 Howland West, 3/5 Eden
 Grove, London N7 8EQ

MARANTZ PM 250

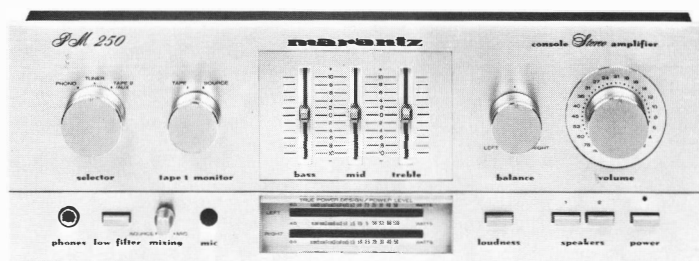
Inputs: 2 moving magnet
phono cartridges, microphone,
2 tape, aux, tuner

Input sensitivity: Phono:
2.8 mV; Microphone: 1.8 µV;
Aux: 150 mV

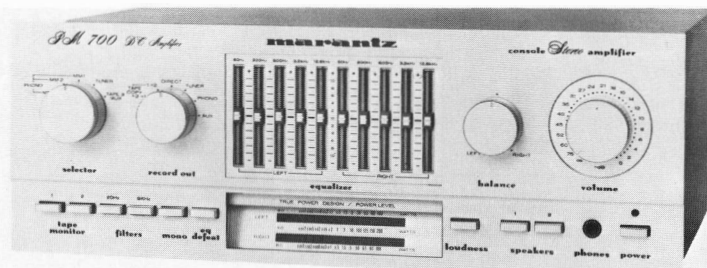
Phono overload level: 109 dB
Total harmonic distortion: 0.05% at rated output
Intermodulation distortion: 0.05%
Frequency response: 20 Hz–50 kHz
Tone controls: Bass, midrange, treble
Power amplifier
Maximum power output: 25 watts per channel (20 Hz–20 kHz)
Total harmonic distortion: 0.05% at rated output
Intermodulation distortion: 0.05%
Frequency response: 20 Hz–50 kHz
Damping factor: 100 at 8 ohms
Signal-to-noise ratio: 100 dB
Size: 416×146×243 mm
Weight: 6.5 kg
Typical UK price: £160
UK importer/distributor: Marantz Audio Ltd (UK), 203 London Road, Staines, Middlesex

MARANTZ PM 700DC

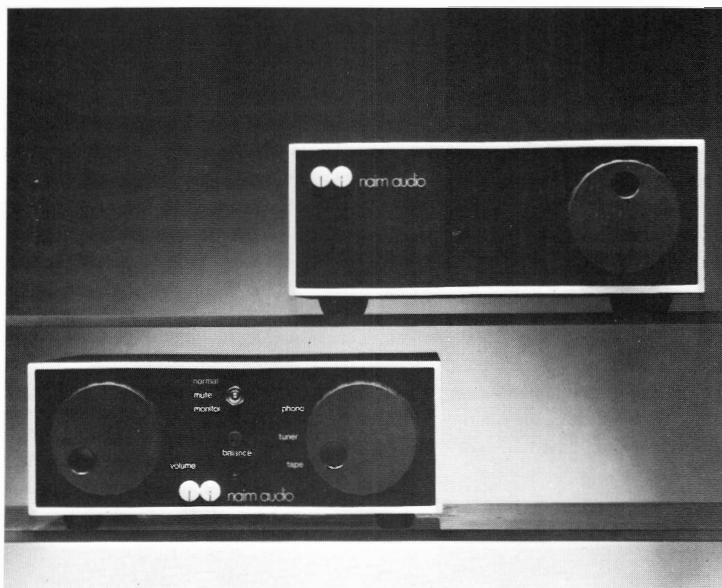
Inputs: Moving magnet, moving coil phono cartridges, 2 tape decks, aux, tuner
Input sensitivity: Moving magnet: 1.8 mV; Moving coil: 100 uV; Aux: 150 mV
Phono overload level: 112 dB
Total harmonic distortion: 0.03% at rated output
Intermodulation distortion: 0.03%
Frequency response: DC – 70 kHz
Tone controls: Five-band graphic equalizer with centre frequencies at 50 Hz, 200 Hz, 800 Hz, 3.2 kHz and 12.8 kHz
Other features: Two-way tape dubbing, low filter, mono, loudness, balance, volume
Power amplifier
Maximum power output: 70 watts per channel (20 Hz–20 kHz)
Total harmonic distortion: 0.03%
Intermodulation distortion: 0.03%
Frequency response: DC – 70 kHz
Damping factor: 110 at 8 ohms
Signal-to-noise ratio:



Marantz PM 250



Marantz PM 700DC



Naim NAC42 NAP 110

100 dB
Size: 416×146×330 mm
Weight: Unspecified
Typical UK price: £199
UK importer/distributor: Marantz Audio Ltd (UK), 203 London Road, Staines, Middlesex

NAIM NAC42 NAP 110

Inputs: Phono, tuner, tape
Input sensitivity: 100 uV (470 kohms load impedance) using NA323 moving coil board; 2 mV (47 kohms load impedance) using NA322 moving magnet board; all other inputs: 75 mV (100 kohms)
Phono overload level: 40 dB at all frequencies

Total harmonic distortion: Unspecified
Intermodulation distortion: Unspecified
Frequency response: Unspecified
Tone controls: None; volume, balance and mute controls only
Other features: NAC42 is also available with 2-way electronic crossover
Size: 205×285×75 mm
Power amplifier
Maximum power output: 40 watts into 8 ohms; 150 VA transient power
Power bandwidth: Unspecified
Total harmonic distortion: Unspecified
Intermodulation distortion: Unspecified

Impedance: 22 kohms
Signal-to-noise ratio: Unspecified
Operating temperature: 0–50°C
Size: 205×285×75 mm
Weight: Unspecified
Typical UK price: £360
UK importer/distributor: Naim Audio Ltd, Southampton Road, Salisbury, Wiltshire

PIONEER SA-408

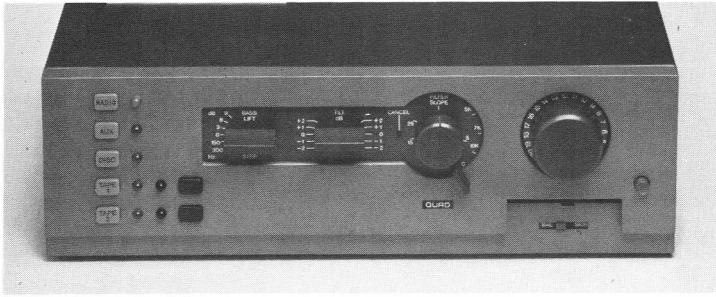
Inputs: Phono, aux, tape
Input sensitivity: Phono: 2.5 mV (50 kohms resistance); Aux, tape: 150 mV (50 kohms resistance)
Phono overload level: 150 mV
Total harmonic distortion: 0.1% at rated power output into 8 ohms
Intermodulation distortion: Unspecified
Frequency response: 20 Hz–40 kHz (through aux input)
Tone controls: Bass: ±9.5 dB (at 100 Hz); Treble: ±9.5 dB (at 10 kHz)
Other features: Loudness, balance, volume controls
Power amplifier
Maximum power output: 20 watts per channel rms into 8 ohms, 30 Hz–20 kHz
Power bandwidth: Unspecified
Signal-to-noise ratio: Phono: 72 dB (IHF); Other inputs: 97 dB (IHF)
Size: 420×98×265 mm
Weight: 5 kg
Typical UK price: £69
UK importer/distributor: Pioneer High Fidelity (GB) Ltd, The Rideway, Iver, Buckinghamshire

QUAD 44/405

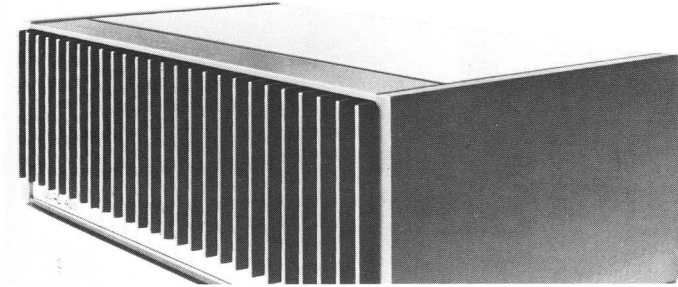
Inputs: Phono, tuner, aux, 2 tape
Input sensitivity: Phono: Variable between 1 mV, 3 mV and 10 mV, thus allowing a wide range of cartridges including low output moving coils; Radio/aux: 100 mV; Tape: 100 mV, 300 mV, 775 mV, 3 V, 10 V switchable
Phono overload level: Maximum input for different sensitivity settings – 35 mV for 1 mV sensitivity, 100 mV for 3 mV sensitivity; 300 mV



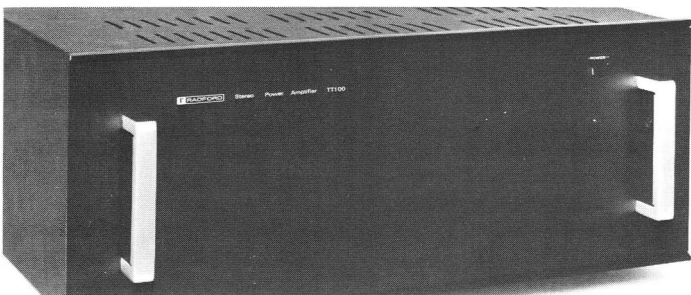
Pioneer SA-408



Quad 44/405



Radford ZD22/TT100



Rogers A100

for 10 mV sensitivity

Total harmonic distortion: 0.02% typically for all inputs (from 30 Hz–10 kHz). Worst case for any input is 0.05%

Intermodulation distortion: Same as above
Residual noise: 104 dB with volume set to minimum 'A' weighted

Frequency response: 30 Hz–20 kHz (± 0.5 dB through disc input); other inputs and all outputs: 30 Hz–20 kHz ($+0$ dB–1 dB)

Tone controls: Bass control gives variable lift or a stepped cut; tilt control about a centre frequency of 1 kHz varies balance between bass and treble; high filter has variable roll-off rate

Other features: Variable capacitance load for disc input between 47 pF and 227 pF

Size: 320×103×207 mm
Weight: 4 kg (pre-amp only)

Power amplifier
Maximum power output: 100 watts rms into 8 ohms (from 100 Hz–10 kHz with no more than 0.05% distortion)

Power bandwidth: Unspecified

Total harmonic distortion: 0.05% (see above)

Intermodulation distortion: 0.05% (see above)

Frequency response: 20 Hz–50 kHz ($+0$ dB–3 dB)

Damping factor: Unspecified

Signal-to-noise ratio: –90 dB unweighted, (ref full power output)

Size: 340.5×115×195 mm

Typical UK price: £450

UK importer/distributor: The Acoustical Manufacturing Company Ltd, Huntingdon, Cambridgeshire

RADFORD ZD22/TT100

Inputs: Disc, tuner, 2 tape

Input sensitivity: Disc: 2 mV at 1 kHz RIAA equalized; Line inputs: 100 mV

Phono overload level: 40 dB minimum

Total harmonic distortion: Line amplifier 0.01% at 1 kHz

Intermodulation distortion: Unspecified

Frequency response: 20 Hz–32 kHz–1 dB (line

input); 50 Hz–20 kHz with less than 0.5 dB RIAA deviation

Tone controls: Bass: ± 11 dB; Treble: ± 12 dB at 20 kHz

Rise time: 6 μ s

Size: 430×115×280 mm (Case being revised at time of going to press)

Weight: 5.5 kg

Power amplifier

Maximum power output: Greater than 100 watts from 4–16 ohms

Alternative TT50 model using same design principles generates 50 watts per channel

Power bandwidth: Unspecified

Total harmonic distortion: Better than 0.25% at 100 watts into 8 ohms

Frequency response: 20 Hz–20 kHz ± 0.5 dB

Signal-to-noise ratio: 106.5 dB (right channel), 105.8 dB (left channel)

Size: Unspecified

Main design features: DC coupled, high slew rate, low noise Class A operation valve power amplifier

Typical UK price: £861
UK importer/distributor: Radford Hi-Fi Ltd, 52/54 Gloucester Road, Bristol

ROGERS A100

Inputs: Moving magnet phono cartridge, aux, tuner, 2 tape

Input sensitivity: Phono: 1.8 mV; All other inputs: 100 mV

Phono overload level: Better than 150 mV at 1 kHz

Total harmonic distortion: 0.05% (overall) from 20 Hz–20 kHz

Intermodulation distortion: Better than 90 dB at 1 kHz, 10 kHz and 100 kHz

Frequency response: 30 Hz–20 kHz ± 0.05 dB from RIAA for disc input

Tone controls: Bass, treble

Other features: Two high filters with 6 and 9 kHz turnover frequencies; low filter with 20 Hz turnover frequencies; roll-off rates of filters fixed at 18 dB per octave

Power amplifier

Maximum power output: 55 watts rms per channel into

8 ohms; burst power out of 120 watts into 4 ohms
Power bandwidth: 15 Hz–80 kHz for 0.1% total harmonic distortion at half rated power
Total harmonic distortion: 0.05% (overall) from 20 Hz–20 kHz

Damping factor: Greater than 60 (ref 8 ohms from 20 Hz–30 kHz)

Signal-to-noise ratio: Unspecified

Slew rate: 15 V/usec
Size: 362×268×117 mm

Weight: Unspecified
Typical UK price: £300
UK importer/distributor: Swisstone Electronics, 4/14 Barmeston Road, London SE6

SAE 2900/2600

Inputs: 2 phono, aux, 2 tape, tuner

Input sensitivity: Phono: 0.5 mV; Aux/tape: 28 mV

Phono overload level: 150 mV maximum signal input

Total harmonic distortion: 0.01% at any level up to rated output

Intermodulation distortion: 0.01% (SMPTE STD)

Frequency response: Phono input: follows RIAA ±0.25 dB; Aux/tape: 1 Hz–100 kHz+0.25 dB–3 dB

Tone controls: Bass: ±16 dB at 20 Hz; Midrange: +7 dB at 1 kHz; Treble: ±16 dB at 20 kHz
Other features: 84 dB phono signal-to-noise ratio; 105 dB aux/tape signal-to-noise ratio; built-in parametric equalizer

Power amplifier

Maximum power output: 400 watts rms per channel into 8 ohms from 20 Hz–20 kHz

Power bandwidth: Unspecified

Total harmonic distortion measured at rated output: 0.05%

1 watt output: 0.02%

Intermodulation distortion measured at 10 watts output: 0.05%

Rated output: 0.05%
Frequency response: 3 Hz–80 kHz (+0.25 dB–3 dB)

Damping factor: 150

(at 1 kHz, 8 ohms)

Signal-to-noise ratio: 100 dB at rated power (unweighted); 94 dB at 1 watt (IHF–A)

Size: 178×483×356 mm

Weight: 29.5 kg

Typical UK price: £1325

UK importer/distributor: C E Hammond, 105/109 Oyster Lane, West Byfleet, Surrey

SANSUI AU417

Inputs: Moving magnet, phono cartridge, aux, tuner, 2 tape

Input sensitivity: Phono: 2.5 mV;

Aux, tuner, tape: 150 mV

Phono overload level: 300 mV is maximum input capability at 1 kHz for 0.01% THD

Total harmonic distortion: 0.02%

Intermodulation distortion: 0.02%

Frequency response: 5 Hz–100 kHz+0 dB–3 dB overall

Tone controls: Bass, treble (tone defeat switch bypasses tone control circuit)

Other features: Tape to tape dubbing in either direction; subsonic filter

Power amplifier

Maximum power output: 65 watts per channel into 8 ohms (20 Hz–20 kHz)

Power bandwidth: Unspecified

Total harmonic distortion: 0.02%

Intermodulation distortion: 0.02%

Damping factor: 60 at 1 kHz, 8 ohms

Signal-to-noise ratio: Phono: 80 dB; Aux, tuner, tape: 100 dB

Size: 430×168×395 mm

Weight: 12.2 kg

Typical UK price: £213

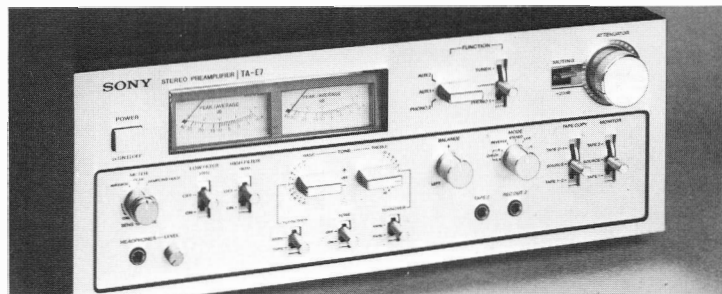
UK importer/distributor: Sansui Europe NV, Unit 10A, Lyon Industrial Estate, Rockware Avenue, Greenford, Middlesex

SANSUI AU919

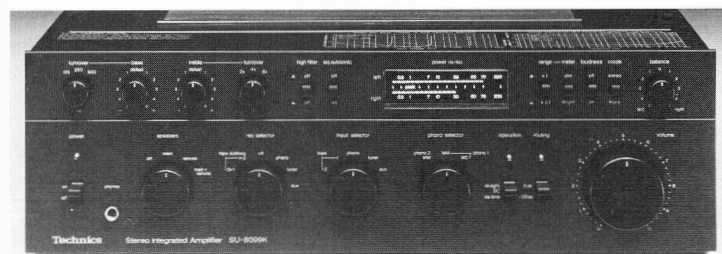
Inputs: 2 moving magnet, moving coil phono cartridges, aux, tuner, 2 tape
Input sensitivity: Phono: 2.5 mV moving magnet,



Sansui AU919



Sony TAE7B/TAN7B



Technics SU-8099K



Trio KA-701



Trio KA-907

100 μ V moving coil; Aux, tuner, tape: 150 mV; Power amp in: 1 V

Phono overload level:

350 mV maximum input moving magnet; 30 mV maximum moving coil input

Total harmonic distortion: 0.008%

Intermodulation

distortion: 0.008%

Frequency response: DC – 500 kHz (+0 dB–3 dB); Aux: 5 Hz–100 kHz (+0 dB–3 dB)

Tone controls: Bass and treble with variable turnover frequencies

Other features: 5 separate power supplies

Power amplifier

Maximum power output:

110 watts rms per channel into 8 ohms (with THD of 0.008%, from 20 Hz–20 kHz)

Total harmonic distortion: 0.008%

Intermodulation

distortion: 0.008%

Damping factor: 100 at 1 kHz and 8 ohms

Signal-to-noise ratio:

Moving magnet phono: 90 dB; Moving coil phono: 74 dB; All other inputs: 80 dB

Size: 430×168×428 mm

Weight: 21.4 kg

Typical UK price: £504

UK importer/distributor:

Sansui Audio (UK) Ltd, Unit 10A, Lyon Industrial Estate, Rockware Avenue, Greenford, Middlesex

SONY TAE7B/TAN7B

Inputs: 2 magnetic, moving coil, tuner, aux, tape

Input sensitivity: Moving magnet: 2.5 mV (50 ohms resistance); Moving coil: 125 μ V (3/40 ohms); Others: 150 mV (50 kohms)

Phono overload level:

Moving magnet: 250 mV; Moving coil: 12.5 mV

Total harmonic distortion: 0.003% at rated output

Intermodulation

distortion: 0.003% at rated output

Frequency response:

Phono: RIAA equalization curve \pm 0.2 dB; All other inputs: 1 Hz–150 kHz +0–1 dB

Tone controls: Bass \pm 10 dB at either 25 or 50 Hz (switchable turnover frequency); Treble: \pm 10 dB

at either 20 kHz or 40 kHz (switchable turnover frequency); High and low filters

Power amplifier

Maximum power output:

100 watts per channel into 8 ohms 20 Hz–20 kHz

Power bandwidth: 5 Hz–35 kHz

Total harmonic distortion

measured at rated output at 20 Hz: 0.01%

1 kHz: 0.01%

20 kHz: 0.01%

Intermodulation

distortion measured at

10 watts output: 0.008%

Rated output: 0.01%

Frequency response:

DC – 100 kHz (+0 dB–1 dB) direct coupled; 6 Hz–100 kHz (+0 dB–1 dB) with subsonic filter

Damping factor: 100

(1 kHz, 8 ohms)

Signal-to-noise ratio:

120 dB (short circuit inputs A network)

Size: 430×170×335 mm

Weight: Unspecified

Typical UK price: £1135

UK importer/distributor:

Sony UK, Pyrene House, Sunbury, Middlesex

SONY TAF40

Inputs: Phono, aux, tuner, tape

Input sensitivity: Phono: 2.5 mV (50 kohms resistance); High level inputs: 150 mV (50 kohms resistance)

Phono overload level:

Unspecified

Total harmonic distortion:

0.01% at rated output

Intermodulation

distortion: 0.01% at rated output

Frequency response:

Phono: RIAA equalization curve (\pm 0.2 dB); Tuner, aux, tape: 5 Hz–70 kHz (+0 dB–1 dB)

Tone controls: Bass, treble

Other features: Muting switch; soft touch illuminated controls

Power amplifier

Maximum power output:

50 watts per channel into 8 ohms, 20 Hz–20 kHz

Power bandwidth: 5 Hz–30 kHz

Damping factor: 50 (at 1 kHz, 8 ohms)

Signal-to-noise ratio:

Phono: 88 dB; Others: 100 dB

Size: 430×80×335 mm

Weight: Unspecified

Typical UK price: £171

UK importer/distributor:

Sony UK, Pyrene House, Sunbury, Middlesex

TECHNICS SU-8099K

Inputs: 2 moving magnet,

1 moving coil phono

cartridge, aux, 2 tape

Input sensitivity: Moving

magnet: 2.5 mV (47 kohms resistance); Moving coil: 100 μ V (47 ohms resistance);

High level inputs: 200 mV

(47 kohms resistance);

Pre-out main in: 1 V

(18 kohms)

Phono overload level:

Moving magnet: 250 mV,

Moving coil: 10 mV

Total harmonic distortion:

0.007% at rated power from

20 Hz–20 kHz

Intermodulation

distortion: 0.01% at rated

power

Frequency response:

Phono: RIAA equalization

curve \pm 0.15 dB; Tuner, aux:

20 Hz–20 kHz +0 dB–0.1 dB

Tone controls: Bass

\pm 7.5 dB at 50 Hz (alternative

turnover frequencies

switchable); Treble: \pm 7.5 dB

at 20 kHz (alternative

turnover frequencies

switchable)

Other features: Tape

dubbing in both directions;

subsonic filter; muting;

loudness and mono switches

Power amplifier

Maximum power output:

115 watts rms per channel

into 8 ohms from 20 Hz–

20 kHz

Power bandwidth: 5 Hz–

40 kHz–3 dB (0.007% THD,

8 ohms)

Damping factor: 100

(8 ohms)

Signal-to-noise ratio:

Moving magnet: 90 dB IHF A;

Moving coil: 80 dB IHF A;

Tuner, aux: 110 dB IHF A

Size: 450×142×420 mm

Weight: 20 kg

Typical UK price: £598

UK importer/distributor:

Panasonic (UK) Ltd,

107–109 Whitby Road,

Slough, Berkshire

TRIO KA-701

Inputs: 2 Phono, tuner, aux,

tape

Input sensitivity: 2.5 mV

(50 kohms resistance)

Phono overload level:

220 mV for 0.02% THD

Total harmonic distortion:

0.02% at rated power output

Intermodulation

distortion: 0.003% at rated

power output

Frequency response:

DC – 400 kHz +0 dB–3 dB

Tone controls: Bass and

treble controls \pm 7.5 dB;

Bass turnover frequency

switchable – 200 or 400 Hz;

Treble turnover frequency

switchable – 3 or 6 kHz

Other features: DC

coupled, dual power supply;

variable loudness control

Power amplifier

Maximum power output:

80 watts rms per channel into

8 ohms 20 Hz–20 kHz

Power bandwidth: 5 Hz–

65 kHz (for 0.03% THD)

Damping factor: 100 (DC –

20 kHz, 8 ohms)

Slew rate: \pm 120 V per usec

Signal-to-noise ratio:

Moving magnet: 89 dB

IHF A; All other inputs:

110 dB IHF A

Size: 440×153×407 mm

Weight: 13.5 kg

Typical UK price: £315

UK importer/distributor:

B H Morris and Co (Audio) Ltd, Precision Centre, Heather Park Drive, Wembley, Middlesex HA0 1SU

TRIO KA-907

Inputs: 2 moving magnet,

1 moving coil phono cartridge,

tuner, aux, tape

Input sensitivity: Moving

magnet: 2.5 mV (switchable

33, 47, 100 kohms resistance);

Moving coil: 100 μ V

(100 ohms resistance); All

other inputs: 150 mV

(50 kohms)

Phono overload level:

230 mV maximum moving

magnet input

Total harmonic distortion:

0.01% (at rated power)

Intermodulation

distortion: 0.0045% (at

rated power)

Frequency response: DC –

400 kHz (+0 dB–3 dB)

Tone controls: Bass and

treble controls \pm 7.5 dB;

Bass turnover frequency

either 150 or 400 Hz

(switchable); Treble turnover

frequency either 3 or 6 kHz (switchable)

Other features: High and low filters, variable loudness control; dual power supply

Power amplifier

Maximum power output: 150 watts per channel (into 8 ohms 20 Hz–20 kHz)

Power bandwidth: 5 Hz–100 kHz (for 0.03% THD)

Damping factor: 100 (DC – 20 kHz, 8 ohms)

Slew rate: ±230 V per usec

Signal-to-noise ratio:

Moving coil: 70 dB IHF A; Moving magnet: 90 dB IHF A; Tuner, aux, tape: 105 dB IHF A

Size: 400×161×463 mm

Weight: 25.8 kg

Typical UK price: £735

UK importer/distributor:

B H Morris and Co (Radio) Ltd, Precision Centre, Heather Park Drive, Wembley, Middlesex HA0 1SU

LOUDSPEAKERS

ACOUSTIC RESEARCH AR25

Type: Infinite baffle

Frequency response:

48 Hz–25 kHz

Power handling: 100 watts

Minimum amplifier power:

Unspecified

Nominal impedance:

8 ohms

Maximum output:

Unspecified

Drive units: 2, 200 mm paper cone bass/mid-range; 32 mm pressure unit with liquid cooled voice coil

Crossover frequencies:

2 kHz

Crossover roll-off rates:

Unspecified

Crossover elements:

Bi-polar electrolytic capacitor and resistive network

Sensitivity: 9 watts

Distortion: Meets DIN

45 500

Low frequency response:

25 Hz (woofer resonance)

Connection sockets:

Screw terminals

Height: 544 mm

Width: 298 mm

Depth: 195 mm

Weight: 11 kg

Finish: Teak, walnut

Typical UK price: £151

UK importer/distributor:

Teledyne Acoustic Research, High Street, Houghton Regis, Dunstable, Bedfordshire



Acoustic Research AR25

Air-cored chokes, computer grade electrolytic capacitors and non-inductive, high power ceramic resistors

Sensitivity: 8 watts

Distortion: Meets DIN

45 500

Height: 1102 mm

Width: 368 mm

Depth: 386 mm

Weight: 37 kg

Finish: Walnut veneer

Miscellaneous: Floor-

standing design

Typical UK price: £650

UK importer/distributor:

Teledyne Acoustic Research,

AUDIOMASTER MLS5

Type: Infinite baffle

Frequency response:

50 Hz–20 kHz±3 dB

Power handling: 75 watts rms

Minimum amplifier power: 10 watts

Nominal impedance:

6 ohms

Maximum output:

Unspecified

Drive units: 3, 2 165 mm

dia Bextrene woofer/ mid-range drivers, driven in tandem; 25 mm dome tweeter

Crossover frequencies:

1.8 kHz

Crossover roll-off rates:

Unspecified

Crossover elements: 21

consisting 4th order cascaded network

Sensitivity: Unspecified

Height: 625 mm

Width: 275 mm

Depth: 250 mm

ACOUSTIC RESEARCH AR90

Type: Infinite baffle

Frequency response:

23 Hz–30 kHz (range)

Power handling: 300 watts (typical, music)

Minimum power:

Unspecified

Nominal impedance:

4 ohms

Maximum output:

Unspecified

Drive units: 5, 250 mm dia paper cone woofers – 2 mounted on either side of cabinet; 200 mm dia paper cone lower mid-range; 38 mm liquid cooled dome upper mid-range; 19 mm dia liquid-cooled dome tweeter

Crossover frequencies:

200 Hz, 1.2 kHz, 7 kHz

Crossover roll-off rates:

Unspecified

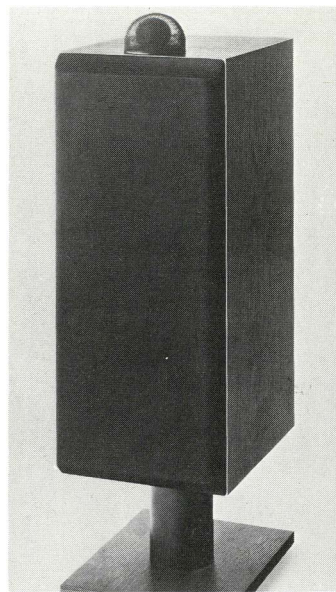
Crossover elements:



B&W DM801



Audiomaster MLS5



B&W DM7 II

Weight: 17 kg
Finish: Teak and walnut veneers with dark brown foam grille
Typical UK price: £225
UK importer/distributor: Audiomaster Ltd, Bridle Path, Watford WD2 4BZ

B&W DM7 II

Type: Auxiliary bass radiator
Frequency response: 30 Hz–25 kHz±2 dB on axis
Power handling: Electronic overload protection circuit allows more than the nominal 40 watts rms specified
Minimum amplifier power: Unspecified
Nominal impedance: 8 ohms
Maximum output: 110 dB at 1 meter
Drive units: 2, plus ultra-bass unit, 160 mm dia aromatic polyamide fibre matrix diaphragm cone with 38 mm dia voice coil, cross-linked polyethylene foam diaphragm, acoustically coupled, high compliance ultra-low frequency radiator; 26 mm dia multi-filament polyester weave dome with 26 mm dia voice coil
Crossover frequencies: Unspecified
Crossover roll-off rates: 24 dB per octave
Crossover elements: 14 consisting high grade polyester condensers and low-resistance ferrite-cored inductors

Sensitivity: 1 watt gives 86 dB at 1 meter (1 kHz sinewave)
Distortion: Less than 0.3% 2nd order and less than 0.2% 3rd order
Vertical dispersion: 10° arc (±1 dB), 20 Hz–15 kHz
Horizontal dispersion: 60° arc (+0–3 dB), 20 Hz–15 kHz
Low frequency resonance: 31 Hz
Height: 900 mm
Width: 270 mm
Depth: 382 mm
Weight: Unspecified
Finish: Teak, walnut veneers (rosewood and black ash to order)
Miscellaneous: Cabinets made from 25 mm thick laminated braced walls
Typical UK price: £433
UK importer/distributor: B&W Loudspeakers Ltd, Meadow Road, Worthing, West Sussex BN11 2RX

B&W DM801

Type: Infinite baffle
Frequency response: 45 Hz–20 kHz±2 dB
Power handling: Electronic protection circuit prevents overload
Minimum amplifier power: 50 watts
Nominal impedance: 8 ohms
Maximum output: Unspecified
Drive units: 3, 270 mm thermo plastic cone with PVC compound coating and ultra-long throw suspension; 100 mm dia aromatic polyamide fibre matrix cone mid-range driver; 26 mm multi-filament polyester weave dome
Crossover elements: 4th order network with computer-optimization
Sensitivity: Unspecified
Distortion: Less than 2%, 2nd order distortion (20 Hz–20 kHz); less than 1%, 3rd order distortion (20 Hz–20 kHz)
Vertical dispersion: 60° +0–3 dB (20 Hz–15 kHz)
Horizontal dispersion: 60°+0–3 dB (20 Hz–15 kHz)
Low frequency resonance: 37 Hz
Connection sockets: Unspecified
Height: 948 mm



Acoustic Research AR90

Depth: 500 mm
Weight: 44 kg
Finish: Teak, walnut (rosewood, black and ash to special order)
Typical UK price: £915
UK importer/distributor: B&W Loudspeakers Ltd, Meadow Road, Worthing, West Sussex BN11 2RX

CELESTION DITTON 121

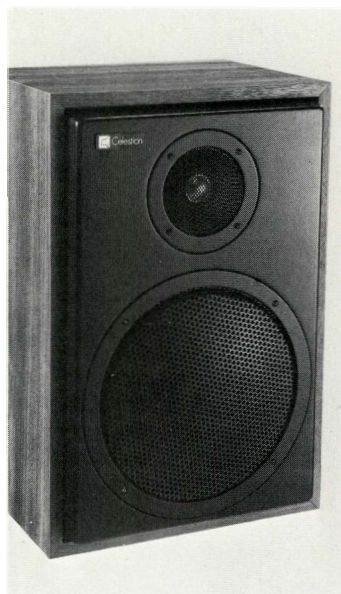
Type: Infinite baffle
Frequency response: 60 Hz–18 kHz±6 dB
Power handling: 40 watts programme
Minimum amplifier power: 10 watts
Nominal impedance: 8 ohms

Maximum output: Unspecified
Drive units: 2, bass/mid-range cone diaphragm with four layer voice coil and barium ferrite magnet of 0.7 Tesla; pressure-formed aluminium dome diaphragm tweeter with barium ferrite magnet, the tweeter is housed in its own enclosure
Crossover frequencies: 4 kHz
Crossover elements: Number unspecified. Pcb is integral with terminal posts
Sensitivity: 2.5 watts give 90 dB at 1 meter (anechoic, pink noise)
Distortion: Unspecified
Low frequency resonance: 75 Hz

Connection sockets: Screw type
Height: 395 mm
Width: 265 mm
Depth: 226.5 mm
Weight: 6 kg
Finish: Teak, walnut, black
Miscellaneous: Injection-moulded front baffle formed from foamed styrene; bonded acrylic fibre damping inside cabinet, which is constructed from high density particle board with integral baffle
Typical UK price: £75
UK importer/distributor: Rola Celestion Ltd, Ditton Works, Foxhall Road, Ipswich, Suffolk IP3 8JP

CELESTION DITTON 442

Type: Infinite baffle
Frequency response: 45 Hz–20 kHz±3 dB

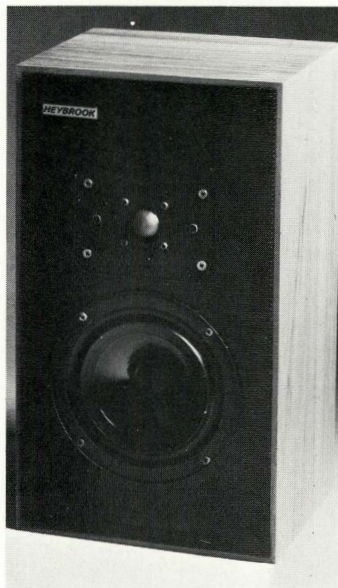


Celestion Ditton 121

Power handling: 120 watts programme
Minimum amplifier power: 20 watts
Nominal impedance: 8 ohms
Maximum output: Unspecified
Drive units: 3, Celestion FC 121 330 mm dia plasticized fibre cone woofer with die-cast aluminium chassis; 130 mm dia plasticized paper cone mid-range driver with die-cast aluminium chassis; hot pressed polyethylene terephthalate polymer diaphragm dome tweeter
Crossover frequencies: 600 Hz, 4.5 kHz
Crossover elements: 14 Butterworth 3rd order low pass filter to woofer; Butterworth 2nd order bandpass impedance equalizing network to mid-range driver; 3rd order high pass filter to tweeter
Sensitivity: 2.9 watts gives 90 dB at 1 meter on axis (anechoic)
Distortion: Less than 3% 2nd order (20 Hz–20 kHz); less than 1% 3rd order (20 Hz–20 kHz)
Vertical dispersion: 30° (±4.5 dB according to Celestion's graphs, 300 Hz–20 kHz)
Horizontal dispersion: 30° (±4.5 dB according to Celestion's graphs, 300 Hz–20 kHz)
Low frequency resonance: Unspecified
Height: 762 mm



Celestion Ditton 442

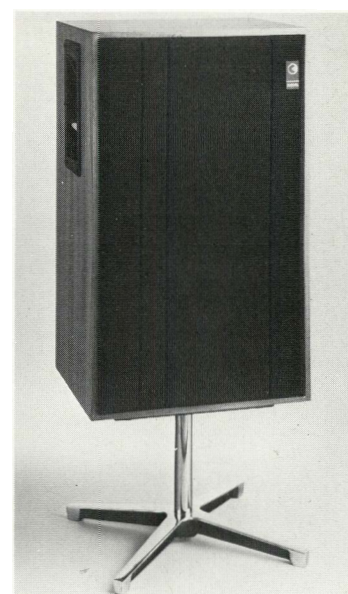


Heybrook HB2

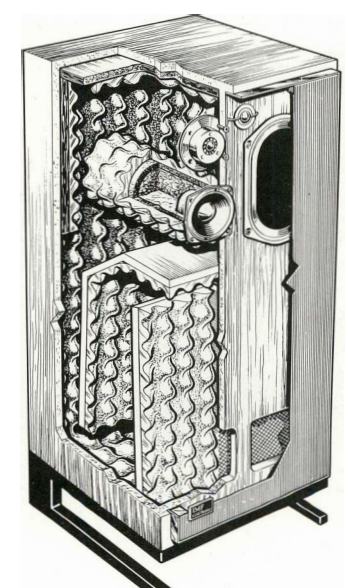
Width: 390 mm
Depth: 290 mm
Weight: 24 kg
Finish: Oiled American walnut, elm, black ash
Miscellaneous: 18 mm high density board cabinets incorporating two bracing shelves; 50 mm thick foam inside to damp standing waves; veneer both sides of cabinet walls
Typical UK price: £300
UK importer/distributor: Rola Celestion Ltd

CHARTWELL PM450P

Type: Bass reflex
Power handling: 150 watts rms
Minimum amplifier power:



Chartwell PM450



IMF TLS80

10 watts rms
Nominal impedance: 8 ohms
Maximum output: Unspecified
Drive units: 3, 305 mm polypropylene copolymer diaphragm woofer with double suspension and long throw voice coil; 145 mm dia Chartwell mid-range polypropylene copolymer cone with PVC surround; Son Audax HD 13D 34H dome tweeter
Crossover frequencies: 300 Hz, 2.4 kHz
Crossover roll-off rates: Unspecified
Crossover elements: 22
Sensitivity: 1 watt gives 92 dB at 1 meter (pink noise)
Height: 870 mm



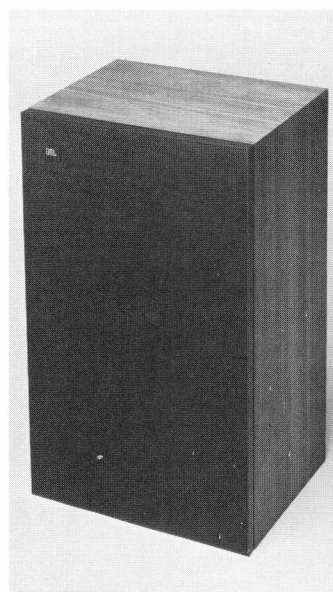
Goodmans HE1

Width: 385 mm
Depth: 330 mm
Weight: 30 kg
Finish: Teak, walnut and black veneer (rosewood to order)
Typical UK price: £865
UK importer/distributor: Swisstone Electronics Ltd, 4-14 Barmeston Road, London SE6 3BN

GOODMANS HE1

Type: Bass reflex
Frequency response: 50 Hz–20 kHz range
Power handling: 85 watts rms
Minimum amplifier power: 3.5 watts
Nominal impedance:

8 ohms
Maximum output: Unspecified
Drive units: 4, 255 mm dia lightweight paper cone woofer with PVC surround and two-part voice coil; two 127 mm dia lightweight cones with PVC surrounds; soft dome tweeter with hexagonal wire voice coil working in ferro-fluid filled gap
Crossover frequencies: 1 kHz, 5 kHz
Crossover roll-off rates: Unspecified
Crossover elements: 9, network uses ferrite-cored chokes to avoid loss of efficiency associated with resistive components
Sensitivity: 1 watt gives 93.5 dB (pink noise at



JBL L110

1 meter)
Distortion: Unspecified
Height: 875 mm
Width: 340 mm
Depth: 355 mm
Weight: Unspecified
Finish: Silversand with black grille cloth
Miscellaneous: Designed for extremely high efficiency; port area is 142 sq cm and port length is 220 mm
Typical UK price: £304
UK importer/distributor: Goodmans Loudspeakers Ltd, Downley Road, Havant, Hampshire PO9 2NL

HEYBROOK HB2

Type: Bass reflex
Frequency response: 30 Hz–25 kHz
Power handling: 60 watts rms
Minimum amplifier power: 20 watts rms
Nominal impedance: Unspecified
Maximum output: Unspecified
Drive units: 2, 170 mm dia Bextrene cone bass/mid-range driver; 25 mm dia soft dome tweeter
Crossover frequencies: 3 kHz
Height: 430 mm
Width: 230 mm
Depth: 230 mm
Weight: 9 kg
Finish: Teak and walnut veneer (black to order)
Miscellaneous: Chrome stands extra
Typical UK price: £170

UK importer/distributor: Mecom (Acoustics) Ltd, Knighton Hill, Wembury, Plymouth PL9 0ED

IMF MONITOR TLS80 II

Type: Transmission line
Frequency response: 20 Hz – beyond audibility
Power handling: 100 watts
Minimum amplifier power: 40 watts
Nominal impedance: 4–8 ohms
Maximum output: Unspecified
Drive units: 4, Kef B139 polystyrene woofer (300×210 mm); 150 mm dia plastic cone mid-range driver; 45 mm dia high gauss tweeter; 20 mm dia chemical dome super tweeter
Crossover frequencies: 350 Hz, 3 kHz, 13 kHz
Sensitivity: 40 watts gives 98 dB at 1 meter
Height: 950 mm
Width: 460 mm
Depth: 400 mm
Weight: 37 kg (stands 7 kg extra)
Finish: Wood veneer
Typical UK price: £796
UK importer/distributor: IMF Electronics, Westbourne Street, High Wycombe, Buckinghamshire

JBL L110

Type: Bass reflex
Frequency response: Unspecified
Power handling: 250 watts rms
Minimum amplifier power: Unspecified
Nominal impedance: 8 ohms
Maximum output: Unspecified
Drive units: 3, 250 mm dia paper cone with coated back for extra rigidity; 150 mm dia paper cone with aluminium centre dome (in isolated sub-chamber); 25 mm dia dome with 45° intersection double layer phenol impregnated linen diaphragm
Crossover frequencies: 1 kHz and 4 kHz
Sensitivity: 89 dB for all 3 driver (hemispherical, free field conditions)
Horizontal dispersion: 160 ±2 dB at 400 Hz; ±6 dB

at 10 kHz (taken from JBL graph)

Height: 597 mm

Width: 362 mm

Depth: 286 mm

Weight: 23 kg shipping weight

Finish: African black walnut veneer

Typical UK price: £595

UK importer/distributor: Harman UK, St John's Road, Tyler's Green, High Wycombe, Buckinghamshire

KEF 105 II

Type: Infinite baffle (separate enclosure for woofer)

Frequency response:

38 Hz–22 kHz±2 dB at 2 meters on design axis

Power handling: 200 watts programme

Minimum amplifier power: Unspecified

Nominal impedance:

8 ohms

Maximum output: 107 dB

on programme peaks under typical listening conditions

Drive units: 3, woofer

mounted in 70 litre enclosure;

plastic cone diaphragm mid-range;

plastic dome tweeter

Sensitivity: 1 watt gives

85 dB at 1 meter on design axis (pink noise, anechoic)

Distortion: Less than 1%

2nd harmonic (50 Hz)

Vertical dispersion:

±1.5 dB over 10° arc (20 Hz–20 kHz) taken from Kef's graphs

Horizontal dispersion:

±4 dB over 40° arc (20 Hz–20 kHz) taken from Kef's graphs

Low frequency resonance:

Unspecified

Height: 965 mm

Width: 415 mm

Depth: 455 mm

Weight: 36 kg

Finish: Wood veneer

Miscellaneous: Treble/mid-range driver enclosure swivels; cabinet fitted with castors; electronic protection circuit to prevent overload damage to drivers

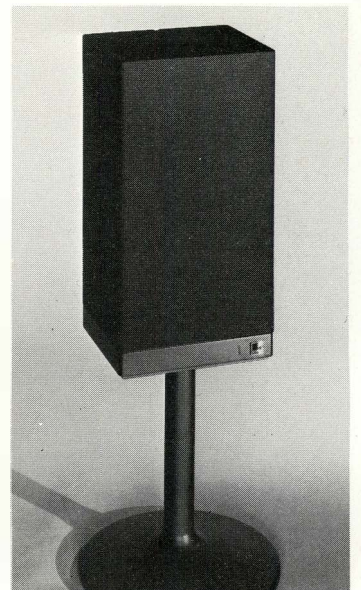
Typical UK price: £835

UK importer/distributor:

Kef Electronics Ltd, Tovil, Maidstone, Kent ME15 6QP



Kef 105 II



Kef Celeste III

KEF CELESTE III

Type: Infinite baffle

Frequency response:

70 Hz–20 kHz+3 dB at 2 meters on axis

Power handling: 50 watts

Minimum amplifier power:

10 watts

Nominal impedance:

8 ohms

Maximum output: 103 dB

on programme peaks under typical listening conditions

Drive units: 2, 200 mm

woofer; 25 mm soft dome

tweeter

Sensitivity: 1 watt gives

86 dB at 1 meter (pink noise, on axis)

Distortion: Less than 1%

2nd order (150 Hz–20 kHz);

less than 1% 3rd order

(50 Hz–20 kHz) at 1 meter

with 90 dB anechoic

Vertical dispersion: 10° arc

(axial response up to 10 kHz)

Horizontal dispersion:

40° arc (up to 10 kHz)

Low frequency resonance:

68 Hz

Height: 508 mm

Width: 265 mm

Depth: 230 mm

Weight: 8.1 kg

Finish: Satin black plinth,

black fabric grille

Typical UK price: £115

UK importer/distributor:

Kef Electronics Ltd,



KLH3

40 Hz–20 kHz

Power handling: 200 watts

Minimum amplifier power:

40 watts

Nominal impedance:

8 ohms

Maximum output:

Unspecified

Drive units: 2, 150 mm dia

polypropylene cone

diaphragm woofer in cast

chassis; 25 mm KLH tweeter

Crossover frequencies:

3 kHz

Sensitivity: 1 watt gives

85 dB at 1 meter at 1 kHz

Height: 530 mm

Width: 220 mm

Depth: 260 mm

Weight: 41 kg shipping

weight per pair

Finish: Walnut veneer with

black removable grille

(speaker stands extra)
Miscellaneous: Integral Analog Bass Computer between pre- and power amplifier and power amplifier and speakers to continually monitor and automatically control woofer excursion

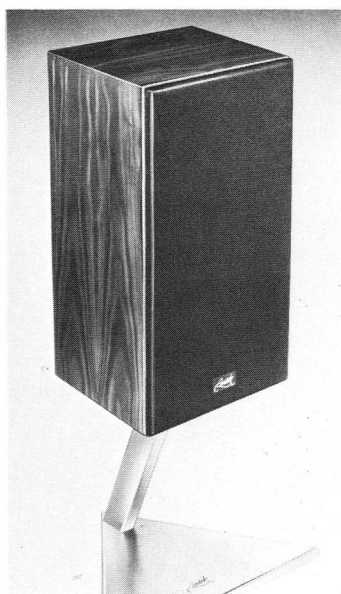
Typical UK price: £275

UK importer/distributor:

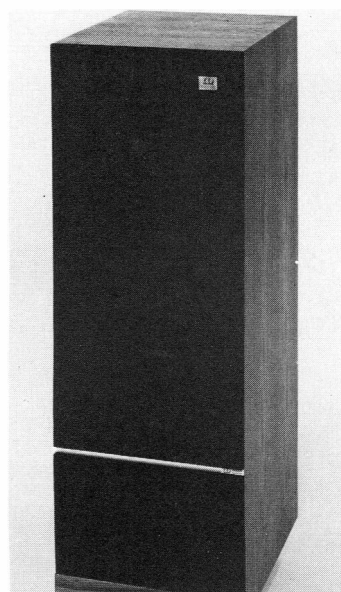
Webland International Unit 7,

129 Walham Green Court,

Moore Park Road, London

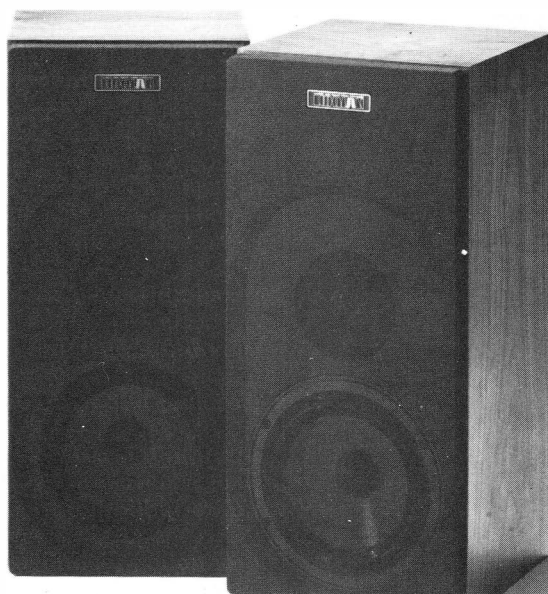


Lentek S4



Monitor Audio MA 22 II

Minimum amplifier power: 25 watts
Nominal impedance: 8 ohms
Maximum output: Unspecified
Drive units: 2, 200 mm dia vacuum formed styrene cone treated with visco-elastic damping materials; 25 mm hemispherical dome tweeter
Crossover frequencies: 2.5 kHz
Crossover roll-off rates: 18 dB per octave
Crossover elements: 11 elements LCR network using high linearity, close tolerance components and ensuring that impedance minimum is 7 ohms
Sensitivity: 1 watt gives 78 dB at 1 meter



Lux MS-10



Mordaunt Short Pageant II

Distortion: Unspecified
Height: 495 mm
Width: 255 mm
Depth: 250 mm
Weight: 11.7 kg
Finish: Teak or walnut with dark brown grille
Typical UK price: £250
UK importer/distributor: Lentek Audio Ltd, Edison Road Industrial Estate, St Ives, Huntingdon, Cambridgeshire PE17 4LF

LUX MS-10

Type: Multi-vented
Frequency response: 50 Hz–20 kHz
Power handling: 60 watts
Minimum amplifier power: 30 watts

Nominal impedance: 6 ohms
Maximum output: Unspecified
Drive units: 2, 200 mm dia Aramid fibre cone woofer, with polyurethane-coated diaphragm edge and die-cast aluminium frame; 22 mm dia polyester dome tweeter with 11,000 gauss ferrite magnet
Crossover frequencies: 3 kHz
Crossover roll-off rates: 18 dB per octave
Crossover elements: Impedance fluctuation, and speaker interaction compensation circuit including metalized film capacitor and low DC resistance coil
Sensitivity: 1 watt gives 89 dB at 1 meter
Distortion: Unspecified
Connection sockets: Suitable for thick (low loss) speaker cable
Height: 540 mm
Width: 250 mm
Depth: 260 mm
Weight: 11.5 kg
Finish: Teak veneer
Miscellaneous: High density particle board is used for cabinet construction, which has holes provided on rear baffle to adjust pressure generated inside the enclosure. Two inch clearance of walls is recommended by manufacturer, so that the multi-vent system is allowed to work properly.
Typical UK price: £175
UK importer/distributor: Howland West Ltd, 3–5 Eden Grove, London N7 8EQ

MONITOR AUDIO MA22 II

Type: Infinite baffle
Power handling: 120 watts rms
Minimum amplifier power: 10 watts
Nominal impedance: 8 ohms
Maximum output: 105 dB at 1 meter
Drive units: 3, 250 mm dia woofer; 100 mm dia mid-range driver; semi-soft, plasticized dome
Crossover frequencies: 350 Hz, 4 kHz
Distortion: 1.5% 2nd order and 0.5% 3rd order (60 Hz–20 kHz) at 1 meter at 90 dB spl
Height: 850 mm
Width: 300 mm
Depth: 350 mm
Typical UK price: £306
UK importer/distributor: Monitor Audio Ltd, 347 Cherry Hinton Road, Cambridge CB1 4DJ

MORDAUNT SHORT CARNIVAL

Type: Compact infinite baffle
Frequency response: 85 Hz–17 kHz ±3 dB
Power handling: 80 watts rms
Minimum amplifier power: 10 watts rms
Nominal impedance: 8 ohms
Maximum output: 108 dB (typical room)
Drive units: 2, 208 mm dia DSB 208 woofer; 68 mm dia paper cone tweeter with 12.5 mm voice coil and damped surround
Crossover frequencies: 3.5 kHz
Crossover roll-off rates: 12 dB per octave low-pass and high-pass filters
Crossover elements: High grade ferrite cored inductors and low loss close tolerance capacitors on single pcb
Sensitivity: 6 watts gives 96 dB at 1 meter in anechoic chamber
Distortion: Less than 1% at 96 dB (20 Hz–20 kHz)
Low frequency resonance: 98 Hz
Connection sockets: DIN sockets and spring loaded push-button sockets
Height: 400 mm
Width: 240 mm

Depth: 145 mm
Weight: 5.2 kg
Finish: Teak and walnut veneer
Miscellaneous: Cabinet made from 15 mm high density board; speakers designed for horizontal or vertical shelf mounting
Typical UK price: £88
UK importer/distributor: Mordaunt Short Ltd, Durford Mill, Petersfield, Hampshire GU31 5AZ

MORDAUNT SHORT PAGEANT II

Type: Resistively loaded bass reflex
Frequency response: 65 Hz–20 kHz±3 dB
Power handling: 100 watts rms
Minimum amplifier power: 15 watts
Nominal impedance: 8 ohms
Maximum output: 110 dB (typical listening room)
Drive units: 2, 208 mm dia DSB 208 doped paper cone woofer; Isophon KK8 synthetic dome tweeter
Crossover frequencies: 3.5 kHz
Crossover roll-off rates: 12 dB per octave low pass; 18 dB per octave high pass filter

Crossover elements: High grade ferrite cored inductors, and low loss close tolerance capacitors on single pcb
Sensitivity: 5.3 watts gives 96 dB at 1 meter in anechoic chamber
Distortion: Less than 1% THD at 6.5 V (150 Hz–25 kHz)
Low frequency resonance: 65 Hz
Connection sockets: Spring-loaded push buttons
Height: 533 mm
Width: 330 mm
Depth: 230 mm
Weight: 9.6 kg each
Finish: Teak and walnut veneer

Miscellaneous: 15 mm high density board, cabinet strengthened by internal bracing; speakers designed for use 12 inches off floor
Typical UK price: £178
UK importer/distributor: Mordaunt Short Ltd, Durford Mill, Petersfield, Hampshire GU31 5AZ



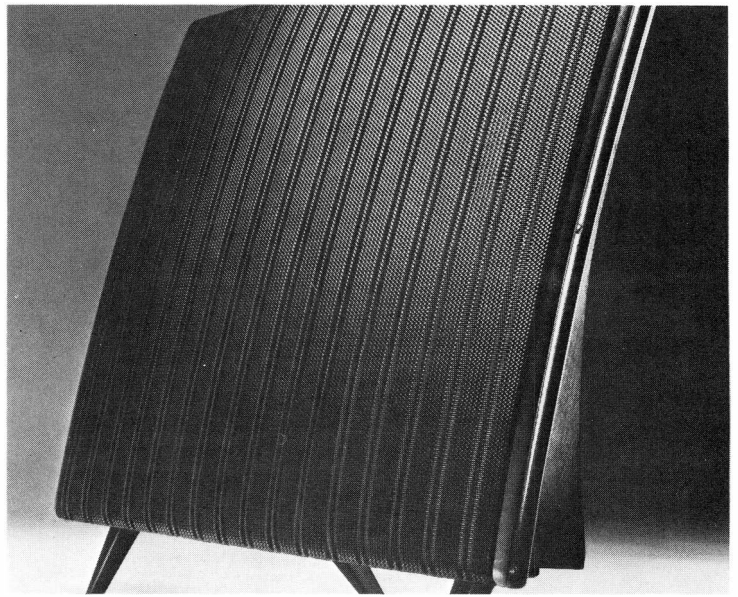
Mordaunt Short Signifiers

MORDAUNT SHORT SIGNIFIERS

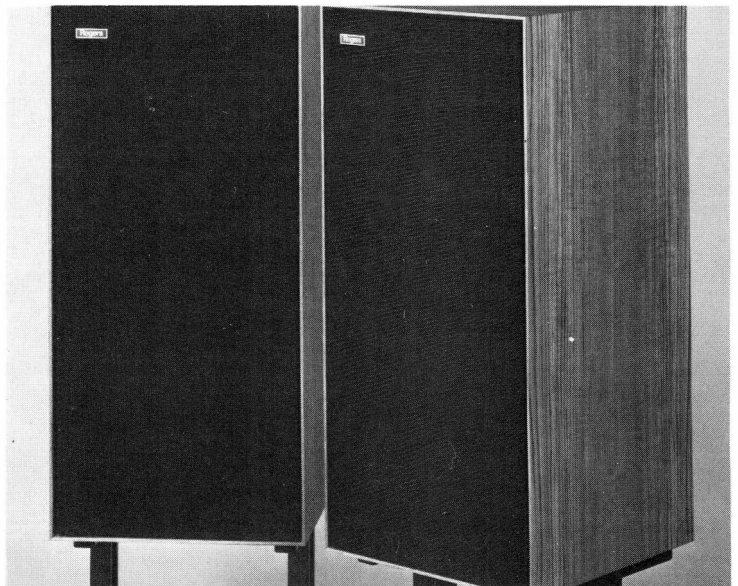
Type: Bass reflex
Frequency response: 20 Hz–25 kHz±2 dB
Power handling: 125 watts rms
Minimum amplifier power: 20 watts rms
Nominal impedance: 8 ohms
Maximum output: 105 dB A
Drive units: 3, 300 mm dia doped pulp cone woofer; 135 mm dia MSDCB treated pulp cone mid-range driver; 25 mm dia Isophon soft dome tweeter
Crossover frequencies: 500 Hz, 4 kHz
Sensitivity: 86 dB for 1 watt at 1 meter
Distortion: Less than 1% at 6 V rms
Height: 810 mm
Width: 385 mm
Depth: 325 mm
Weight: 29 kg
Finish: Unspecified
Miscellaneous: 5 position acoustic environment balance switch
Typical UK price: £575
UK importer/distributor: Mordaunt Short Ltd, Durford Mill, Petersfield, Hampshire GU31 5AZ

QUAD ELECTROSTATIC

Type: Electrostatic
Frequency response: 45 Hz–18 kHz



Quad Electrostatic



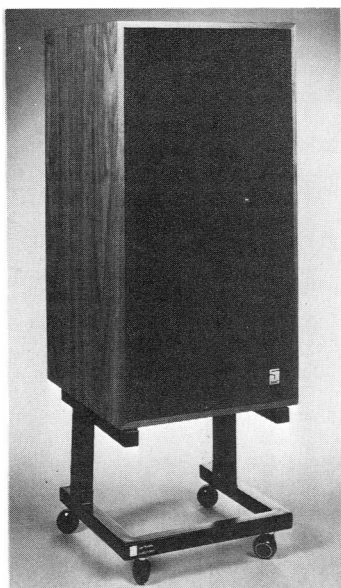
Rogers Export Monitor

Power handling: Unspecified, manufacturer's recommended amplifier Quad 303
Minimum amplifier power: Unspecified
Nominal impedance: 30–15 ohms (falling above 8 kHz)
Maximum output: 100 dB (70 Hz–7 kHz)
Drive units: 5 unit electrostatic
Crossover frequencies: None
Crossover elements: None
Vertical dispersion: 15°
Horizontal dispersion: 70°
Low frequency resonance: Unspecified
Connection sockets: Unspecified
Height: 790 mm

Width: 880 mm
Depth: 270 mm
Weight: 18 kg
Finish: Expanded aluminium (bronze and black)
Typical UK price: £517
UK importer/distributor: The Acoustical Manufacturing Co Ltd, Huntingdon, England

RAM CD20

Type: Resistively loaded bass reflex
Power handling: Unspecified
Drive units: 2, 165 mm dia SEAS bass/mid-range; SEAS soft dome tweeter
Crossover frequencies: 3.5 kHz
Crossover roll-off rates:

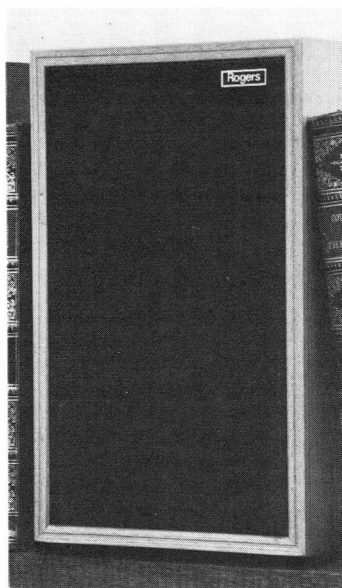


SMC AS40

18 dB per octave
Crossover elements: 8
Sensitivity: Unspecified
Height: 419 mm
Width: 228 mm
Depth: 247 mm
Weight: Unspecified
Finish: Teak, walnut veneer
Miscellaneous: ARCC network in crossover
Typical UK price: £130
UK importer/distributor: RAM Ltd, 19 High Street, Headington, Oxford OX3 9HS

ROGERS EXPORT MONITOR

Type: Bass reflex
Frequency response: 40 Hz–25 kHz±3 dB
Power handling: 100 watts programme
Minimum amplifier power: 25 watts rms
Nominal impedance: 8 ohms
Drive units: 3, 205 mm Rogers Bextrene cone woofer; Celestion HF 1300 mid-range driver; Celestion HF 2000 tweeter
Crossover frequencies: 3 kHz and 14 kHz
Crossover roll-off rates: Unspecified
Crossover elements: Air-cored, close tolerance inductors, stable low polyester capacitors
Sensitivity: 1 watt gives 86 dB at 1 meter (anechoic)
Distortion: Unspecified
Height: 536 mm
Width: 300 mm
Depth: 300 mm

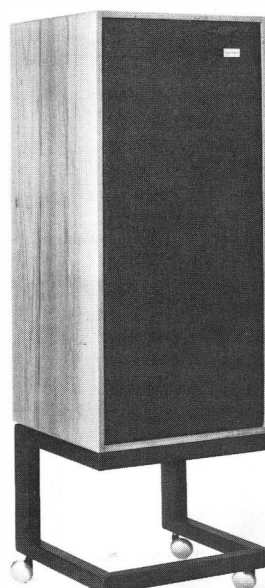


Rogers LS3/SA

Weight: 14 kg
Finish: Selected woods
Typical UK price: £287
UK importer/distributor: Swisstone Electronics Ltd, 4–14 Barmeston Road, London SE6 3BN

ROGERS LS3/SA

Type: Infinite baffle
Frequency response: 70 Hz–20 kHz±3 dB
Power handling: 25 watts into 15 ohms, 35 watts into 8 ohms
Minimum amplifier power: Unspecified
Nominal impedance: 15 ohms
Maximum output: 95 dB at 1.5 meters (typical listening room)
Drive units: 2, 102 mm plastiflex doped Bextrene cone bass/mid-range driver; 19 mm dome tweeter
Crossover frequencies: 3 kHz
Crossover roll-off rates: Unspecified
Crossover elements: 18 consisting 5% close tolerance stable, low loss capacitors and tapped inductors
Sensitivity: Unspecified
Distortion: Unspecified
Height: 300 mm
Width: 185 mm
Depth: 160 mm
Weight: 5.5 kg
Finish: Teak, walnut, black and rosewood veneers
Miscellaneous: Bitumen pad and acoustic foam internal damping



Spendor BC1

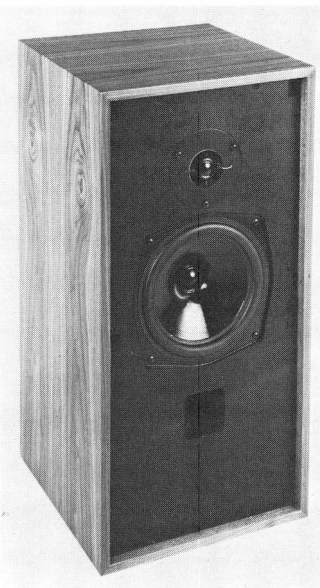
Typical UK price: £183
UK importer/distributor: Swisstone Electronics Ltd, 4–14 Barmeston Road, London SE6 3BN

SMC AS40

Type: Infinite baffle
Frequency response: 45 Hz–20 kHz±3 dB
Power handling: 100 watts
Minimum amplifier power: 25 watts
Nominal impedance: 8 ohms
Maximum output: Unspecified
Drive units: 3, 250 mm dia woofer; 115 mm dia mid-range driver; 25 mm dome tweeter
Crossover frequencies: 500 Hz, 4 kHz
Crossover roll-off rates: Unspecified
Sensitivity: Unspecified
Height: 640 mm
Width: 360 mm
Depth: 320 mm
Weight: Unspecified
Finish: Teak or walnut veneer
Miscellaneous: Mid-range driver housed in its own line
Typical UK price: £295
UK importer/distributor: SMC Loudspeakers, 76 Bedford Road, Kempston, Bedfordshire

SPENDOR BC1

Type: Bass reflex
Frequency response:



Tangent TM1

60 Hz–14 kHz±3 dB
Power handling: 55 watts rms
Minimum amplifier power: Unspecified
Nominal impedance: 8 ohms
Maximum output: 101 dB
Drive units: 3, 203 mm dia woofer/mid-range; Celestion HF 1300 tweeter; STC 4001 G super tweeter
Crossover frequencies: 3 kHz, 13 kHz
Sensitivity: Unspecified
Height: 635 mm
Width: 305 mm
Depth: 298 mm
Weight: 15 kg
Finish: Teak veneer
Typical UK price: £326
UK importer/distributor: Spendor Audio Systems Ltd, Station Road, Industrial Estate, Hailsham, Sussex

TANGENT TM1

Type: Bass reflex
Frequency response: 40 Hz–30 kHz±3 dB
Power handling: 50 watts
Minimum amplifier power: Unspecified
Nominal impedance: 8 ohms (6 ohms minimum)
Maximum output: Unspecified
Drive units: 2, 140 mm dia plastic cone bass/mid-range driver; 19 mm dia dome tweeter
Sensitivity: Unspecified
Height: 630 mm
Width: 305 mm
Depth: 315 mm

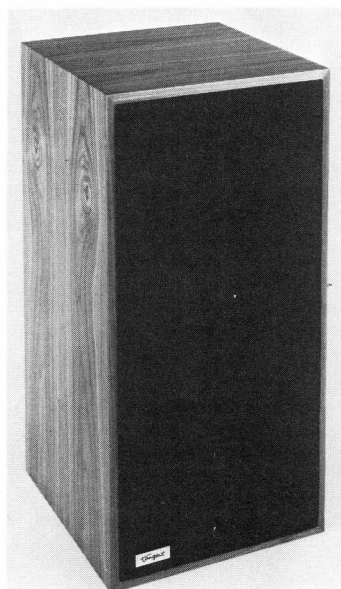
Weight: Unspecified
Finish: Teak or walnut veneer with grey Vynair grille; other finishes to order
Typical UK price: £168
UK importer/distributor: Tangent Acoustics, Viking Way, Bar Hill, Cambridge CB3 8EL

TANNOY CHEVIOT Mk II

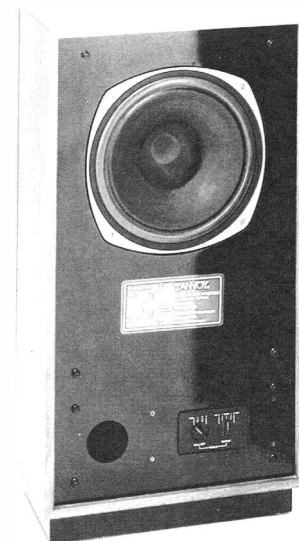
Type: Dual port
Frequency response: 40 Hz–20 kHz±3 dB
Power handling: 60 watts rms
Minimum amplifier power: 10 watts rms
Nominal impedance: 8 ohms
Maximum output: 111 dB (domestic)
Drive units: Dual concentric cone, 305 mm paper cone woofer with 50 mm voice coil and 20 Hz fundamental resonance; 50 mm dia horn tweeter with 50 mm voice coil
Crossover frequencies: 1.2 kHz
Sensitivity: 1 watt gives 90 dB at 1 meter
Vertical dispersion: 80 (–6 dB at 10 kHz)
Horizontal dispersion: 80 (–6 dB at 10 kHz)
Low frequency resonance: Unspecified
Connection sockets: Unspecified
Height: 846 mm
Width: 446 mm
Depth: 260 mm
Weight: Unspecified
Finish: Oiled walnut veneer
Miscellaneous: Internal strutting for added rigidity
Typical UK price: £543
UK importer/distributor: Tannoy Products Ltd, St John's Road, Tylers Green, Buckinghamshire

VIDEOTONE MINIMAX II

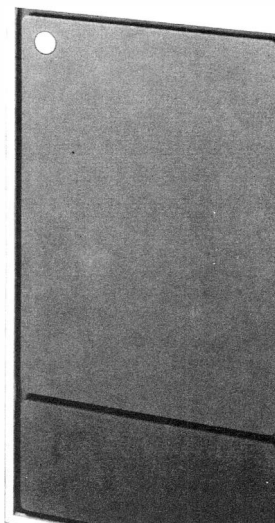
Type: Infinite baffle
Frequency response: Unspecified
Power handling: 40 watts
Minimum amplifier power: 10 watts
Nominal impedance: 8–15 ohms
Maximum output: 100 dB bass, 107 dB treble for 30–40 watts input, 10% distortion
Drive units: 2, bass/mid-



Tangent TM1



Tannoy Cheviot

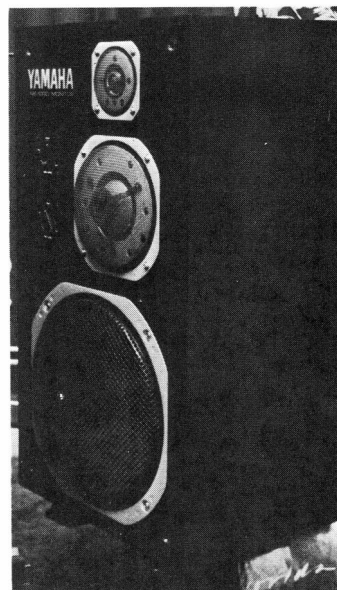


Videotone Minimax II



Wharfedale E70

range paper/pulp cone; paper/pulp cone tweeter
Sensitivity: 10 watts gives 96 dB at 1 meter (pink noise, anechoic)
Distortion: See Maximum output
Height: 260 mm
Width: 150 mm
Depth: 220 mm
Weight: 3.6 kg
Finish: Teak, walnut, white and orange, with black grilles (beige or cane fronts to order)
Typical UK price: £45
UK importer/distributor: Videotone Ltd, 98 Crofton Park Road, London SE4



Yamaha NS1000

WHARFEDALE E70

Type: Bass reflex
Frequency response: 50 Hz–18 kHz±3 dB
Power handling: 100 watts DIN 45573
Minimum amplifier power: 3 watts
Nominal impedance: 8 ohms
Maximum output: 115 dB for 100 watts input at 1 meter
Drive units: 4, 250 mm dia low inertia paper cone diaphragm woofer; two 100 mm dia paper cone mid-range drivers; 25 mm compression drive horn loaded tweeter
Crossover frequencies: 800 Hz, 7 kHz

Crossover roll-off rates:
6 and 12 dB per octave
Crossover elements: 6
element network with 13
element contour control
Sensitivity: 1 watt gives
94 dB at 1 meter
Distortion: Unspecified
Height: 815 mm
Width: 342 mm
Depth: 360 mm
Weight: 32 kg
Finish: Wood veneer
Typical UK price: £339
UK importer/distributor:
Rank Hi-Fi, Highfield Road,
Idle, Bradford, West Yorkshire

YAMAHA NS1000

Type: Infinite baffle
Power handling: 100 watts
rms
Minimum amplifier power:
Unspecified
Nominal impedance:
8 ohms
Maximum output:
Unspecified
Drive units: 3, 300 mm dia
woofer; 88 mm dia dome
mid-range driver; 30 mm
dome tweeter
Crossover frequencies:
500 Hz, 6 kHz
Crossover roll-off rates:
Unspecified
Crossover elements:
Unspecified
Height: 710 mm
Width: 395 mm
Depth: 369 mm
Weight: 31 kg
Finish: Black (professional
version) NS 1000M or
ebony with dark brown front
grille (NS 1000)
Typical UK price: £817
UK importer/distributor:
Natural Sound Systems Ltd,
10 Byron Road, Harrow,
Middlesex HA7 3TL

SELECTED HI-FI SYSTEMS



Aurex System 12

AUREX SYSTEM 12

First manufacturer onto the British market with a microsystem of outstanding hi-fi performance was Toshiba. That was in 1979. Now Toshiba's upmarket Aurex division boasts three microsystems and despite fierce competition, notably from Technics and Aiwa, Toshiba still have their nose in front.

The System 12, like its elder brother, the £1000 System 15, comes in four pieces – a cassette deck, FM tuner, preamplifier and power amplifier. It gains full marks for styling. The cassette deck at the bottom and power amplifier at the top are the larger elements while the slimline preamp and tuner snuggle neatly in between.

The main difference between the System 15, System 12 and the even less expensive and tinier System 10 is the amplifier. The metal-tape compatible cassette deck is featured in each system. So it all depends how big your room is whether you go for the £399, £499 or £1000 system. Unless of course you want to have digital readout FM tuning, in which case it has to be the System 15.

Suitable speakers for the 30 watts per channel output of System 12 are fairly plentiful at about £100 per pair. But

best to aim for slightly above average efficiency and the Kef Celeste III, Monitor Audio MA9 and AR 18s spring to mind as perhaps the best three matches.

The typical price of this system is £499.

PIONEER MINI SYSTEM

An elegant, slimline rack system for the space conscious. Two identically sized racks are supplied – one for the equipment, the other for records. A glass top allows the record rack to sit by the side of the equipment rack. Rubber protectors can be slotted in between the two racks if a vertical formation is preferred.

The outstanding feature of the system is the excellent amplifier. The SA3000 develops 40 watts rms per channel with no more than 0.02% distortion across the audible frequency spectrum. Somehow it manages to sound like much more.

The matching tuner is very easy and pleasant to use – its centre-tune meter moves along the tuning scale above the tuning cursor. Once you are 'on a station', the meter needle aligns neatly with the cursor. What could be simpler?

The slimline cassette deck provided has a sliding cassette tray, and a special photo-electronic remaining tape meter, to supplement the less easy-to-read 0–1000 digital memory which most cassette decks now feature.

As for the turntable, it works best when the system is in the horizontal layout and the rack solidly mounted. The coaxial suspension seems to prevent gross mechanical feedback, allowing the deck to be knocked fairly hard without audible effect. The supplied cartridge should be changed for an Ortofon MS 20E II or equivalent standard model and again speakers costing around £150 average per pair would be well suited to the quality of the system, rather than opting for the Pioneer speakers normally supplied, which have a slight masking effect, on mid-range detail.

The typical price of this system is £650.

SANSUI SUPER COMPO

Once again the turntable is the weak point of this rack system. Whereas the KD 1500 *could* be used with the Trio 405 system at a pinch, the Sansui FR–D3 really has some serious faults quite apart from its fairly poor feedback performance. So if you want a rack system from Sansui the cheaper manual felt-drive Sansui SR 222 Mk II is the best value alternative. A Grado FCE+1 would again be a sensible choice of cartridge installed in an ADC magnesium headshell for greater rigidity.

Sansui's ultra-powerful R70 receiver combines a radio with 65 watts per channel amplifier. So the Super Compo here takes up a bit less space than the Trio 405 rack. If you want an honest, no-frills basic system without having to match all the components this is probably the best buy around at the moment.

At the time of going to press, Sansui's D 90 cassette deck is about to be phased out to make way for an almost identical model capable of recording and playing metal-particle tapes. This is a point in its favour, because it means that the absolute performance level using metal cassettes will be higher than Trio's KX 550.

The choice of speakers is once again up to the individual. Sansui's 'European' designed ES–P305 is an efficient speaker, which would allow this system to sound considerably louder than it would with speakers like Audiomaster MLS2s or Mordaunt Short Festivals, but these pedigree British alternatives will probably give a bit more detail.

The typical price of this system is £400.



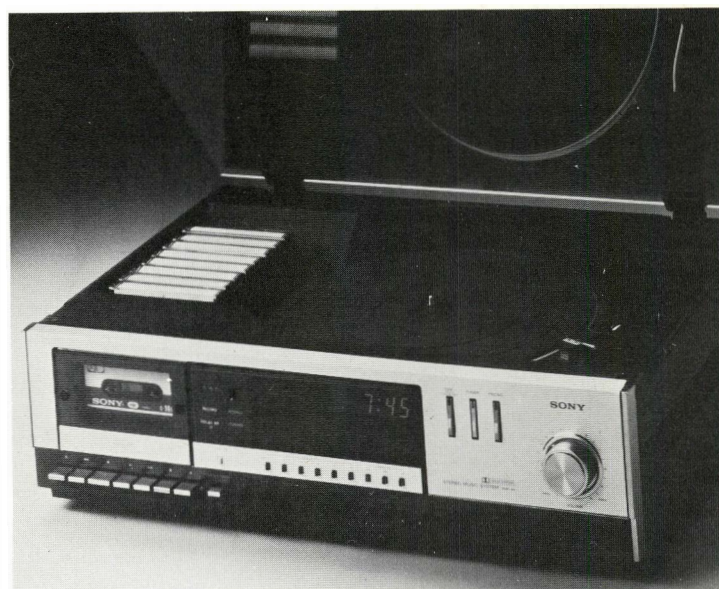
Pioneer Mini System



Sansui Super Compo



Trio KA 405 Rack System



Sony HMK 44

SONY HMK 44

Sony are one of the few manufacturers who have managed to rationalize the partial eclipse of the traditional music centre by modern rack systems. Their HMK 44 represents an attempt to combine all the useful features that traditionally made music centres popular with a more 'homely' sort of appearance than the typical rack.

Naturally, the turntable is fully automatic, and FM tuning is optionally manual by the conventional tuning knob, or more quickly, by a series of pushbutton presets. A digital clock timer is included in the neat and compact cabinet, so cassette recordings of FM broadcasts can be made without human supervision. The spare bit of space to the left of the record deck has been thoughtfully converted to a cassette storage compartment.

Thirty watts per channel is pretty powerful even for a modern music centre and the specification is rated from 20 Hz–20 kHz, which means that there is no slacking at extreme bass and treble. The wow and flutter performance of the cassette section is probably the weakest area of performance – most people will be able to hear 0.18% wrms as pitch variation and the turntable and cassette sections are a little on the noisy side. But bearing in mind the price of this system, its combination of convenience with a reasonable performance is very good.

The typical price of this system is £320.

TRIO KA 405 RACK SYSTEM

This system only makes sense if you can obtain it with the Trio KD 1033B turntable. Though the arm must be cued onto and off the record, the 1033B is less susceptible to acoustic feedback from the speakers than the KD 1500 automatic deck which is the model normally supplied. A good choice of cartridge for the 1033B is the Grado FCE+1, which should be able to pick out a good solid bass line where the music dictates. It needs to track at 2 gm for best results, however.

Electronic auto-search tuning is the star attraction of the tuner. If you like gadgetry it will certainly be of interest to you. And it sounds good too. As always an external, roof-mounted aerial will produce best results but the high FM sensitivity means that even using a 300 ohm internal ribbon aerial the tuner will do better than average.

The 55 watts per channel output of Trio's KA 405 amplifier means that there is plenty of power at the heart of

this system – enough to fill rooms up to about 120 cu metres volume. Speakers should be auditioned because at this price level there are considerable differences between models. Check that the speakers can handle the full 55 watts output of the Trio KA 405, and then shortlist two or three models costing between £100 and £200 per pair from the immediately preceding section.

Best results from the KX 550 Dolby cassette deck will be obtained with a tape such as TDK Super Avylin or TDK AD with bias and equalization switched to the appropriate settings.

The typical price of this system is £500.

TURNTABLE: REGA PLANAR III
AMPLIFIER: NAD 3020
LOUDSPEAKERS: JR 149

Rega Research make two turntables, the Planar II and Planar III, and with the possible exception of B&O's 4000 Series the Rega decks are the most beautiful currently available. In fact the whole system is extremely stylish.

Apart from looking good, the Planar III turntable happens to be extremely soundly designed in all the important areas. The main bearing is precisely machined, the platter is made from non-resonant glass and is fitted with a felt mat. The arm, based on the popular Lustre design discontinued a few years ago, is good enough to accept cartridges ranging from the quite compliant Ortofon VMS 20E II to low compliance moving coil cartridges

NAD's 3020 amplifier has set new standards for inexpensive amplifiers – its preamplifier section contains six transistors of the quality normally used only in 60 watts per channel amps costing twice or three times as much.

An ideal pair of speakers for the system is the clean and analytical cylindrical JR 149. The two Kef drive units are mounted on a flat part of the extremely rigid cabinet. Predictably, in view of their small size, the weakest point of the JR 149s is their bass, but an easy upgrade could be made by adding the JR subwoofer system when finances allow. An electronic crossover rolls off the bass output from the JR 149 and a mirror image roll in of the subwoofer fills in that missing bass. The typical price of this system is £378: turntable £138; amplifier £86; loudspeakers £154.

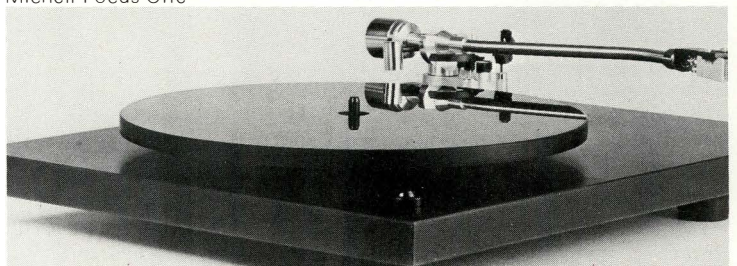
TURNTABLE: MICHELL FOCUS ONE
AMPLIFIER: ROGERS A100
LOUDSPEAKERS: MORDAUNT SHORT PAGEANT II

Specialist British turntable manufacturer John Michell has designed the arm fitted to the Focus One so that it can take a number of different types of cartridge. The damped unipivot arm is very well suited to the high output moving coil Ultimo 10X pickup. There are very few turntables that approach the sort of quality of the Linn Sondek. Costing over £100 less, the Focus One's extremely high tolerance design has some of the Linn's virtues at least, and in this 'mid-price' system will allow whatever cartridge is chosen to pick up more information than most turntables irrespective of their retail price. The precision ground belt which connects the drive motor to the platter and the main bearing construction are just two examples of what makes this well styled turntable such good value.

Rogers have been quite a while in producing a big brother to the excellent A75, but the A100 has been well worth the wait. It seems to have effortless power delivery and is a safe match for the Pageant IIs, unlike the A75 which can exaggerate the slight treble hardness of these superb loudspeakers. Despite their medium size and price there are very few models costing less than £300 per pair that give them any serious competition. Fed with signals using a high quality disc source and a turntable of the Focus One's potential there shouldn't be any grumbles about lack of bass clarity, though for the extra £100



Michell Focus One



NAD 3020



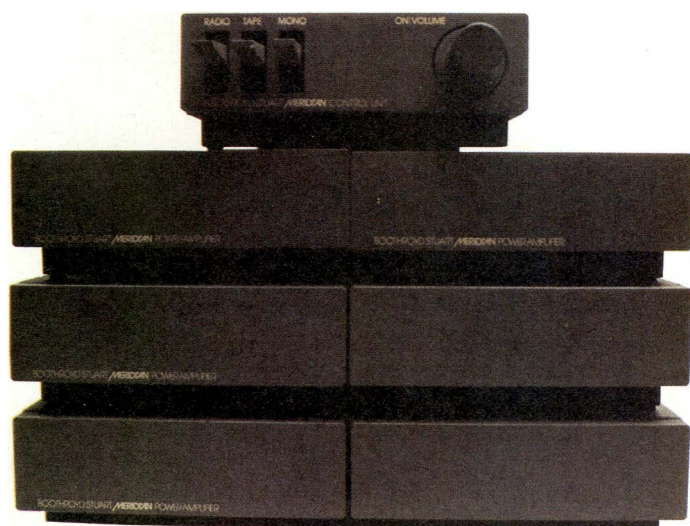
Nytech CTA-252 SX II



Linn Isobarik



Linn Sondek LP12



Meridian 101/105

the rarely heard final octave could come to life.

The typical price of this system is £660: turntable £185; amplifier £300; loudspeakers £175.

TURNTABLE: **LINN SONDEK LP 12**
 TUNER-AMPLIFIER: **NYTECH CTA-252 XD II**
 LOUDSPEAKERS: **ARC 101**

Probably the best way to get a really top sounding disc-playing system without spending more than £1000. And you get an outstanding FM tuner into the bargain. A quick glance at the power specification of the Nytech reveals that its maximum output is 25 watts per channel – less than the Sony music centre and rack systems mentioned earlier. What makes the Nytech special is that its peak power delivery enables a remarkable dynamic range.

Unfortunately the only way this sort of dynamic range can be retrieved from the LP record is with the help of an excellent turntable – one that minimizes acoustic feedback from the loudspeakers to pickup cartridge, and mechanical feedback from footfalls on loose floorboards for example. This is why it is necessary to have the Linn in this system. If £1000 is the upper limit of your budget, the same arm as found on the Rega Planar III is recommended, and an Ortofon VMS 20E II cartridge fitted.

Completing the system are the exceptional two-way ARC 101 speakers. Since their release onto the market in 1979, these speakers have undergone considerable changes including dramatic modification to the crossover network. At about £250 per pair they now represent exceptional value allowing extended bass and three-dimensional stereo imagery on top of the natural mid-range and treble detail resolution.

The typical price of this system is £858: turntable £299; tuner-amplifier £299; loudspeakers £260.

TURNTABLE: **LINN SONDEK LP 12**
 ARM: **LINN ITTOK**
 CARTRIDGE: **LINN ASAK**
 AMPLIFIER: **MERIDIAN 101/105**
 LOUDSPEAKERS: **LINN ISOBARIK**

No qualms were felt about including the Linn Sondek twice in the recommended systems section. It is perhaps the best turntable available, and combined with these components produces staggeringly lifelike reproduction of music from LPs. Investing this sort of money in a system is not done lightly and anyone thinking of doing so is advised to take as much time listening to the components as possible. If there is one criticism to make of this system it is that the speakers limit the breadth of stereo to some extent. This may be due to the fact that two of the Isobarik's drivers point upwards, while the main output is conventionally directed forwards. More than compensating for this is the outstandingly extended bass, and wide dynamics which excel anything else on the market.

Until recently the Naim NAC 32/250 was regarded as the most successful amplifier at driving Isobariks. There are many who still consider it better than the Meridian combination, though some prefer the Meridian's clarity, openness and sweetness, to the Naim's ability to create a sense of solidity and firmness to images. The differences are a source for considerable debate at present in the enthusiast hi-fi press.

Even more recently introduced than the Meridian amplifier which incidentally is available with special modules for 'accurate' matching to a large number of cartridges, is Linn's Ittok arm. Claimed to be made for the Asak cartridge by Linn, it is the most robust device around for supporting a pickup cartridge and makes the Asak sound better than other arms according to general consensus.

The typical price for this system is £2457: turntable £299; arm £230; cartridge £184; amplifier £640; loudspeakers £1104.

GLOSSARY

AC: Alternating Current
dB: decibels – a measure of acoustic power. 3 dB represents an audible doubling of power
DIN: Deutsche Industrie Normen
DC: Direct Current, or 0 Hz
Hz/kHz: Hertz/kilohertz
20 Hz–20 kHz is generally regarded as the full audible spectrum of humans.
1000 Hz = 1 kHz. Middle C is 256 Hz and every doubling of frequency is an octave
IHF: Institute of High Fidelity
IMD: Intermodulation distortion. A measure of the effect of one frequency on another, normally expressed as a percentage.
LED: light emitting diode
mH: milliHenry – a measure of inductance
mil: A thousandth of an inch
mpx: multiplex (the name given to the stereo carrier signal for FM transmissions)
An mpx filter is fitted to most FM tuners and receivers and sometimes to cassette decks to help eliminate spurious effects of poorly suppressed multiplex carriers when recording from FM
mV/uV: 1000 uV = 1 mV, and 100 mV = 1 V
uV is microvolt, mV is millivolt, and V is volt
ohms: the measure of impedance which itself is the combination of resistance and reactance, or the electrical load seen by all signals in an electrical circuit
pcb: printed circuit board
pf: the measure of capacitance. High levels of capacitance are sometimes required by cartridges with rising treble response, above about 10 kHz. 250 pF in parallel is about normal
THD: Total Harmonic Distortion, the commonest method of measuring amplifier and tuner distortion. Expressed as a percentage addition to a sine wave fed through the system being measured. With amplifiers it is important for THD to be low across the audible spectrum and the power range of the amplifier.
VU: Voltage Units

Specifications explained

Some specifications are more confusing than others. Turntables, arms, cartridges and tuners are perhaps the most difficult to understand. Some of these specifications therefore require a brief explanation
Turntables
Platter: The rotating part that supports
Arm effective length: Distance direct between arm pivot and cartridge stylus
Arm effective mass: Measured in gm, the mass of the arm seen by the cartridge. It is an element in the inertia of the arm. High and low effective mass correspond in reality with heavy and light arms because of the constant effect of gravity. Low mass arms have an effective mass below 15 gm. Medium mass arms have an effective mass between 15 and 30 gm and high mass arms, an effective mass higher than 30 gm
Overhang: Normally variable, it is the distance between stylus tip and centre spindle. The arm must be moved to the centre of the platter to measure overhang
Offset angle: The angle subtended by a line drawn through the long axis of a cartridge inserted to the arm's headshell, and a line drawn between the cartridge stylus and the arm pivot
Feedback: Unwanted vibrations picked up by the cartridge which detects them as signal vibrations and 'feeds' them into the system
Acoustic feedback is where the cartridge picks up airborne vibrations, usually generated by the loudspeakers played at high levels. Mechanical feedback consists of vibrations transmitted through solid surfaces – knocks, footfalls etc which are not absorbed by the turntable
Crosstalk: Interference between left and right stereo channels. It should be as low as possible. Measured in dB, the figure specified is good the higher it is, because of the way crosstalk is measured
Cantilever: The arm sticking out from the body

of the pickup cartridge, at the end of which is attached the stylus

Tuners

AM suppression: The ability of an FM tuner to eliminate Amplitude Modulated signals
Capture ratio: The ability of a tuner to reject the weaker of two signals transmitted at the same frequency
IF rejection: The ability of the tuner to reject Short Wave transmissions
Image response: Ratio of wanted to unwanted heterodyned frequency. The unwanted heterodyne frequency is necessary to receive local transmissions which have to be broadcast at a different frequency to the main one for a given station
Selectivity: A measure of the tuner's ability to pick up weak and strong signals near to each other on the tuning scale. Alternate channel selectivity has been quoted where possible
Spurious response: A measure of the tuner's ability to reject secondary images due to broadcasts at frequencies identical in distance, the opposite side of the tuner's oscillator frequency to the wanted broadcast

Consultant: Jonathan Kettle, deputy editor of *Popular Hi-Fi*

Production: Zita Chen
Design: Roger Hammond
Editor: Corinne Benicka

While the publishers have made every effort to ensure that the information in this catalogue is correct, they cannot be responsible for any alterations to technical specifications, availability or quoted retail prices which have taken place since going to press.

© 1981 Phoebus Publishing Company/BPC Publishing Limited, 52 Poland Street, London W1A 2JX
Windward Imprint owned by W H Smith & Son Limited, Registered No 237811 England
Trading as WHS Distributors, St John's House, East Street, Leicester LE1 6NE

All rights reserved. No part of this publication may be reproduced, stored in a retrieval system, or transmitted, in any form or by any means, electronic, mechanical, photocopying, recording or otherwise, without the prior permission of the copyright owner

ISBN 0 7112 0093 9



WORLD HI-FI GUIDE, a comprehensive list of stereo equipment, covers all makes and price ranges and will be an invaluable asset to both the enthusiast and the prospective buyer. Turntables, arms, cassette decks, open reel decks, tuners, tuner-amplifiers, amplifiers, loudspeakers and selected hi-fi systems are all included.