



EFFICIENCY IN SIMPLICITY

The Series 77 is the latest in a long line of magnetic tape recorders bearing the FERROGRAPH name. This new range of machines combines the well proven design of Revox transport and electronics and the simplicity of use of the Ferrograph. The Series 77 has been designed to ensure long-term stability and reliability under the most severe operational conditions, while meeting the highest quality standards for recording and reproduction at a reasonable cost.

Transport

A heavy aluminium die-cast chassis, together with diecast chassis braces, form a rigid, stable reference plane for all motor axes, tension arms and for the removeable die cast head assembly block. Brushless AC motors with direct-drive, servo-controlled capstan and electrically controlled spooling motors ensure tension and wind with either large or small diameter reel hubs. All tape motion is logic-controlled and an infra red tape sensor monitors tape continuity

Electronics

Professional modular construction with plug-in p.c. boards allows easy access to all audio adjustments Maintenance is made easy and all p.c. boards are included in the maintenance spares kit. Internal adjustment for bias, equalisation and level calibration controls are all mounted on a single plane and accessible without removing the case. The balanced line input and output, remote start/ stop and tape drive remote sockets are located on one single recessed panel on the rear of the machine. A headphone jack is provided on the front panel as well as the controls for speed, power, level, record and monitoring. An internal loudspeaker controlled from the front panel is also provided.



Ferrograph Accessories

If the best results are to be obtained from the Series 77, it is of the utmost importance to ensure that none of the metal parts with which the tape comes into contact become magnetised. Even very slight magnetisation of a head may cause irreparable damage to a valued recording.
The Ferrograph D2 Defluxer provides a simple means

of totally removing all magnetisation.

To simplify the calibration setting of the Series 77 a range of individually recorded Ferrograph Test Tapes is available in full width format which covers:

Azimuth Setting Response Tones
CCIR/DIN/NAB/IEC Eq. 00 VU Level
Repeat Frequencies Different Speeds

Many other accessories are available including Remote Control unit, Rack Mount brackets, NAB Adaptors, Foot Switch, Signal Operated Switch Unit, Headphones,

Microphone, Tapes and Dust Cover





Applications

The Series 77 comes in a variety of specifications to meet the needs of broadcast studios, small recording studios, telephone logging, theatre, schools, industry and commerce. In fact, the series of recording is needed the Series 77 will provide the answer.

Design features common to all Series 77 recorders:

Easy-access heads for simple lacing, editing and cleaning

Two separate speeds with variable speed control

10.5 inch reel capacity with switch for smaller reels Full remote control and remote start/stop feature

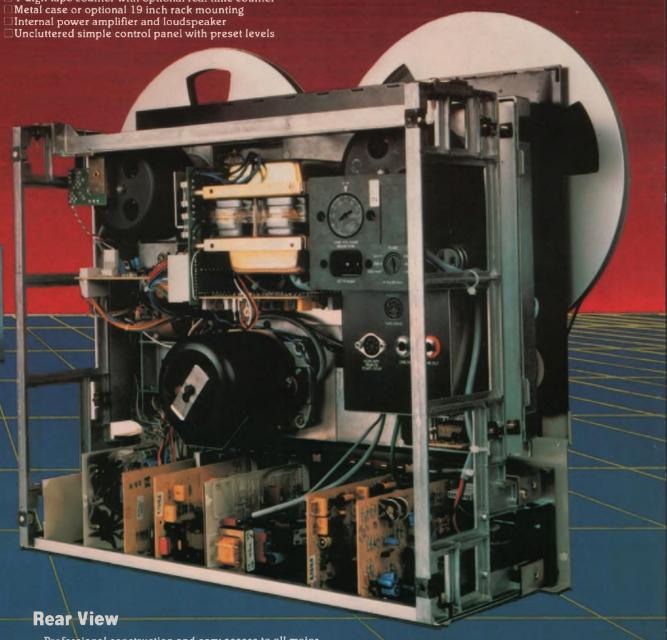
4-digit tape counter with optional real time counter

Options Available

4 speed ranges

High speed Standard speed Low speed Super low speed 15/7¹/₂ ips 7¹/₂/3³/₄ ips 33/4/17/e ips 1⁷/₈/¹⁵/₁₆ ips

Mono or Stereo Microphone input Real time counter LED display XLR connectors Endless loop cassette



Professional construction and easy access to all major components makes repair and maintenance quick and easy.

TECHNICAL SPECIFICATION

TAPE TRANSPORT

Track format : Half track mono or Half track stereo

: 15 and 7¹/₂ lps 7¹/₂ and 3²/₄ lps 3²/₄ and 1²/₆ lps 1²/₆ and 1⁵/₁₄ Tape speeds

Wow and Flutter (as per DIN 45507) : at 15 tps less than 0.06% at 71/2 lps less than 0.08% at 33/4 lps less than 0.10% at 11/6 lps less than 0.20% at 13/16 lps less than 0.30%

Tape slip : max. 0.20%

Reelsize : up to 10.5 inch diameter (min. hub diameter 2.36 inches) tape tension switchable (for small hub sizes)

Winding time : approx 135 secs. for 3600ft. of tape

: 3 motor tape drive, 2 AC spooling motors: 1 AC capstan motor, electronically regulated. Transport mechanism

Transport control

: Intergrated control logic with tape motion sensor Contactless electronic switching of all motors. Remote start/stop facility. Full remote control of all functions and electronic timer operation.

AUDIO SECTION

Equalization : 15 ips: 50µsec/3180µsec

7½ ips: 50µsec/3180µsec 3½ ips: 90µsec/3180µsec 1½ ips: 120µsec/3180µsec ¼ ips: 200µsec/3180µsec

Frequency response

: at 15 jps 30Hz - 22kHz + 2/ - 3dB at 7'/s jps 30Hz - 20kHz + 2/ - 2dB at 3'/s jps 30Hz - 20kHz + 2/ - 2dB at 3'/s jps 30Hz - 16kHz + 2/ - 3dB at 1'/s jps 60Hz - 8kHz + 2/ - 3dB

Peak recording level : at 15/71/2 ips 640nWb/m corresponds

at 15/7% ips 640nWb/m corresponds to 4dB above 0 VU at 17%/3% ips 320nWb/m corresponds to 4dB above 0 VU at 3%/1% ips 160nWb/m corresponds to 4dB above 0 VU at 17%/1% ips 160nWb/m corresponds to 4dB above 0 VU at 17%/1% ips 80nWb/m corresponds to 4dB above 0 VU

: VU meter as per ASA standard with LED peak level indicator Level metering

Signal to Noise : at 15 ips better than 60dB (reference 2% distortion at 71/2 ips better than 60dB at 33/4 ips better than 60dB unweighted including hum) at 11/1 ips better than 58dB at 15/10 ips better than 56dB

Erase depth : better than 70dB

: Stereo — better than 45dB Mono — better than 60dB Crosstalk

: for peak level recording of 32 nWb/m 200mV-5V at $10k\Omega$ isolated. Recommended source not greater than Line input

600Ω.

Line output : from peak level recording of 320 nWb/m 1V into $600\,\Omega$ isolated.

Headphone output : suitable for headphones 1000Ω

Connectors Line -3 contact guage B jack (optional — XLR male or female) Phones — guage A jack

GENERAL DETAILS

Loudspeaker

: Internal 30 Ω loudspeaker driven from Internal amplifier. Variable level control and mute switch.

Metering : The VU meter always displays the record level signals Output metering optional.

sturdy metal case with carrying handles. Provision for fitting optional rack mount brackets. Power

: 100, 120, 140, 200, 220, 240 volt 50 or 60Hz, Max. 80W. Selected by external voltage selector

Main fuse : 100-140: 1A slow blow. 200-240: 0.5A slow blow Weight : approx. 371lbs (17kg)

Dimensions (W×H×D) : 17.8 × 16.3 × 8.14 inches 452 × 414 × 207mm. Clearance for 10 5 Inch spools Max. width 21.2 Inches (538 mm) Max. height 18.25 Inches (464 mm)

Accessories included

: 7 inch empty spool tape head maintenance kit instruction manual input/output plugs mains lead

All figures quoted are minimum performance values normally exceeded by all units. This specification is subject to improvement without notice.



FERROGRAPH

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PROFESSIONAL USER PRICE LIST

FEBRUARY 1988

AVM-FERROGRAPH SERIES 77 TAPE RECORDER

 $10\frac{1}{2}$ Reel Capacity. Balanced Line Termination. Built-in Monitor Amp and Speaker. Vertical or Horizontal Operation. Metal Case (Rack Mount Optional). Flat Deck. "B" Gauge Jack Connectors.

		Mono & Track	Mono Full Track	Stereo 1/2 Track
High Speed	15"/7½" 7½"/3¾" 3¾"/1¾" 1¾"/15/16"	£1554.00	£1665.00	£1567.00
Standard Speed		£1547.00	£1657.00	£1559.00
Low Speed		£1549.00	£1659.00	£1561.00
Super Low Speed		£1575.00	£1685.00	£1588.00

PACKING £25.00 PER MACHINE

OPTIONAL EXTRA

Microprocessor Controlled Real Time Counter to replace mechanical counter.

£200.00

TERMS

ACCESSORIES

Remote Control	£104.00
Rack Mount Brackets	£ 21.00
N.A.B. Adapters (per pair)	£ 21.50
Defluxer D2	£ 28.00
Maintenance Manual	£ 20.00
Spares Kits	P.O.A.

PRICE : Strictly Net Ex-Works

<u>CARRIAGE</u>: Extra at cost VAT: Extra at 15%

: Account Customer - Net Monthly Account
No Account Customer - Cash with Order

