

Lowe Electronics Catalogue



**Communications - Amateur Radio - GPS Navigation
Short Wave Listening - Airband Radio
Scanners - Weather Monitoring**

Lowe Electronics

Welcome to the new Lowe Electronic Catalogue! We've been in business for over thirty years building on our reputation for service and value in everything we do. We are sure you'll find something of interest within these pages.

We have a broad spectrum of talents here at Lowes, from the expert skill of our engineers and production technicians to the wide product knowledge of our experienced sales staff. You can rely on us for solid, impartial help and advice when it comes to choosing and using the huge range of products we have to offer. You can always come back for advice on your equipment or enhance its performance with the wide range of accessories we have to offer, many of which you'll find in this catalogue.

We source our products from all over the world. Our agents in the Far East, North America and Europe are constantly looking for new and innovative products for you. Our Product Development Departments also liaise with many acknowledged experts throughout the world to ensure our new products are always up to date. We also supply a large number of commercial, government, security and military organisations.

Look for up to the minute information at our Website:

URL www.lowe.co.uk.

Our site is highly developed and contains hundreds of specifications, articles, reviews and links to many other sites to help you in your hobby or business. We update our Website several times a week and there's always something new.

Ordering information

Telephone 01629 580800

Fax 01629 580020

Email: info@lowe.co.uk

URL: <http://www.lowe.co.uk>

All major credit cards accepted

Branches:

Bristol & Wales

79 Gloucester Road, Patchway, Bristol BS12 5QJ,
Tel 0117 931 5263 Fax 0117 931 5270

North East

Unit 18B, Airport Industrial Estate, Newcastle, NE3
2EF, Tel 0191 214 5424, Fax 0191 214 0761

COMMUNICATIONS

For thirty years we've specialised in the supply of communications systems to amateur radio and professional markets. Whatever your needs in business radio, from small handhelds for local work or a more intricate mobile system, or an HF system for world-wide communications, we can help!

AMATEUR RADIO

Lowe Electronics has supplied the Amateur Radio Hobbyist for many years and is respected for its knowledge, its wide range of top quality products and superb service organisation. We supply all leading manufacturer brands. In 1996 we were awarded the "UK Dealer of The Year" by Kenwood Electronics.

GPS NAVIGATION

The Global Positioning System network of satellites provides accurate position fixes 24 hours a day anywhere on the planet providing safe, reliable navigation to all. Ideal for sailors, aviators, drivers and walkers. Find your way there and back. Our range includes excellent handheld/mobile systems with accessories, route planning and moving map software.

SHORT WAVE RECEIVERS

Short wave receivers bring the world directly into your home. Broadcasters all over the world provide a unique blend of entertainment and education through news, current affairs, music and cultural programmes. You can also tune into thousands of communications between long distance aircraft, ships at sea, radio hams, government and military transmissions. For computer buffs, we also sell software that helps you to decode lots of digital radio traffic that includes weather fax maps and radio teletype from press agencies. As the UK's largest retailer and a world famous manufacturer of short wave receivers in our own right, we have a unique perspective in this area.

AIRBAND AND SCANNING

Scanning is a fascinating hobby, allowing you to tune into hundreds of aircraft as they fly, or tune into local radio hams, marine radio, emergency services and thousands of other services. Now you can really find out what is going on in your area, in the skies or just off the coast!

SECURITY

Our security products, suitable for personal and corporate use, also find use outside these areas. Our Night Vision Scopes literally let you see in the dark. Ideal for security applications, nature watchers and home security - for things that go bump in the night! We've recently added the "BIONIC EAR" to our range - now you can hear a pin drop - and from fifty feet away!

WEATHER MONITORING

The great British weather is one of the leading topics of conversation every day, but how much do we really know? We offer a range of weather monitoring stations to record rainfall, wind speed and direction, temperature, humidity, software for decoding weather maps and data direct from short wave radios. Become your own weather forecaster and really understand the forces of nature!

ALL LOWE PRICES INCLUDE VAT



TO ORDER CALL 01629 580800

The trouble with ordinary maps is, they don't know where you are



this is no ordinary map **GPSIII from Garmin**

A Global Positioning System receiver with electronic map. It not only shows you the lay of the land, but where you stand, too.

Millions of miles of motorways, roads, railways, rivers and shorelines are programmed into the GPSIII. Yet this versatile personal navigator weighs only 255g and fits comfortably into your hand, on your bicycle or on the dashboard of your car.

Where you are

The GPSIII's 12 parallel channel receiver will find your position fast and keep your position even in dense foliage. Position averaging reduces the effects of Selective Availability (SA) for the best accuracy possible.

Where you've been

The GPSIII tracks your route and stores favourite spots with names, icons and a brief


description. With one keystroke, trip odometer and speed calculations are in clear view. It will even display sunrise and sunset times so you're not left in the dark.

Where you're going

Most remarkable about the GPSIII is its basemap. It shows primary landmarks for Europe, Africa, Asia, Australia and Oceania. After telling you how far you are from a given point, it will work out the time of arrival.

The Garmin GPSIII has a versatile display Vertically it's a handheld...

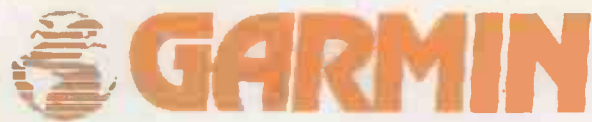
Push a button and the display reads horizontally for installation in a car or boat

Low price £429.00 

ALL LOWE PRICES INCLUDE VAT



TO ORDER CALL 01629 580800



GARMIN GPS 12XL

Performance at a low cost



The GARMIN GPS 12XL is all about performance. It features a 12 parallel-channel receiver for amazingly fast satellite acquisition and tight satellite lock, even under tree cover. More than just an ultra-reliable receiver, the GPS 12XL is loaded with navigation information including 106 pre-defined map datums and 7 grid formats plus advanced orienteering features like position averaging. UTM and user grid formats to define your own map parameters. The TracBack™ function helps you find your way home.

- Includes Lat/Long, UTM, Ordnance Survey, Irish, Swiss, Swedish, German and Maidenhead Grids.

- PhaseTrac12™ receiver tracks and uses up to 12 individual

satellites for fast acquisition and a tight lock on satellites

- Proximity waypoint feature warns you of approaching hazardous areas
- Innovative TracBack™ function turns your track log into an instant breadcrumb trail so you quickly navigate back home, even if you haven't scored waypoints
- User definable map datums and UTM grids let you customize the data used for positioning
- User-friendly rocker-keypad system allows room for a large backlit display with easy-to-read characters and full-featured graphic plotting
- Position averaging feature helps reduce the effects of Selective Availability
- Large memory holds 500 waypoints or 20 routes of up to 30 waypoints each.

Low Price £229.00

GARMIN GPS2 Plus

The GPS2P Plus is an enhanced replacement for the GPS2, incorporating a 12 parallel channel receiver for fast accurate positioning. Designed with over-the-road journeys and off road adventures in mind, GARMIN's newest compact GPS features a state-of-the-art two-way screen display for vertical or horizontal orientation a feature that's perfect for going from your vehicle to your backpack or trail bike.

Packed with all the features you've come to expect from the industry leader, this multipurpose GPS also boasts an external antenna for impressive reception, dedicated zoom keys, diagonal panning, auto start/stop trip timer, and average and maximum speed recordings. Just four AA batteries will provide up to 22 hours of accurate tracking.

Now, the same pinpoint navigation used by pilots the world over, is conveniently available to adventurers.

Low Price £229.00

GARMIN GPS 38



The GPS38 is Garmin's entry-level GPS receiver. Although inexpensive, it features two important advantages for many of our customers, notably the provision of a data port for connection to a PC or to one of our Kantronics TNCs (for location tracking and reporting using a radio link) plus the inclusion of the "Maidenhead Locator System" in use by radio hams world wide for pinpointing their locations across the world and calculating distance / bearing values.

The GARMIN GPS38 is the one navigational tool for the great outdoors that offers big features in a small, lightweight package - all at a truly affordable price.

Mark your favourite fishing

spot, tree stand or camp site. Or retrace your steps back to the safety of your truck using our all new TracBack feature. The GPS 38 shows you exactly where you are, where you've been and where you're going. Has a total of 250 waypoints with 20 reversible routes of up to 30 waypoints each plus Man Overboard and TracBack mode for automatic track log navigation. Has over 100 Map Datums the coordinate systems including Lat/Lon, UTM/UPS, OSGB and Maidenhead MultiTrac8 operating system continuously tracks and uses up to 8 satellites for fast, accurate positioning.

Low Price £139.00



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GPS12

Ideal first GPS receiver at a very affordable price

The Garmin GPS12 Personal Navigator is an affordable 12 parallel channel GPS receiver, packed with features and the same user-friendly operation that's made Garmin the world's number one manufacturer.

The GPS12 is ideal for use by walkers and hikers. It has fast satellite acquisition and stays locked on, even in tough conditions, under trees for example. It's rugged waterproof case features a built-in antenna, military-tough construction and its rocker keypad provides true one-hand operation to keep you on the move night and day. Powered by internal batteries

There is a host of advanced navigation features: like a moving map plotter that displays waypoint names, symbols or comments, proximity waypoint alarms, average and maximum speed data and trip timers and you have a first class GPS receiver. The innovative TracBack™ function turns your track log into an instant breadcrumb trail to quickly navigate back home and there's also a Man Overboard feature (MOB). Position Averaging helps to reduce the effects of Selective Availability, contributing to position accuracy. There's enough memory for 500 waypoints - and you can store 20 reversible routes with up to 30 waypoints each.

Includes Lat./Long, UTM/UPS, Ordnance Survey, Irish, Swiss, Swedish, German and Maidenhead Grids plus 107 map datums.

All in all, a superb product, ideal for you first GPS receiver but powerful enough for the serious user on a budget.



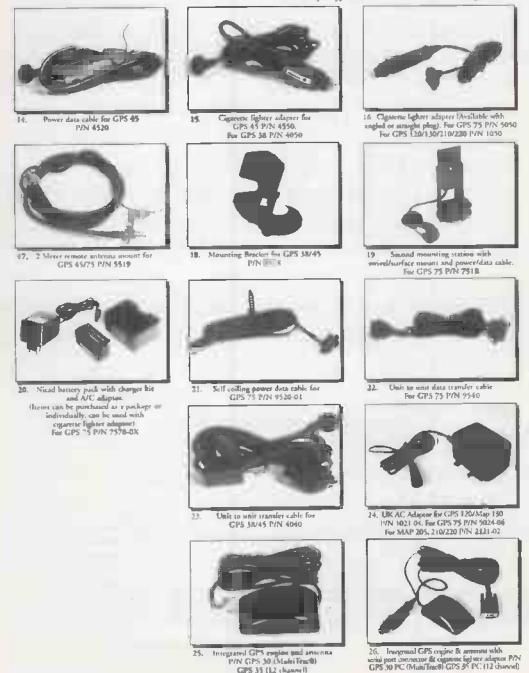
Low Price £179.00

GPS accessories available from Lowe

Item	Description	Price	Carriage	
3815	GPS38 Carry case	£11.75	A	
3823	Replacement GPS38 owners manual	£11.16	A	
3824	Replacement GPS38 quick reference manual	£5.00	A	
4040	Cross load cable GPS38/45/45XL	£37.60	A	
4041	PC interface cable with 9 pin plug	£30.55	B	
4042	GPS38 data cable	£18.80	A	
4050	GPS38 cigarette lighter adapter inc. 12 to 6V converter	£29.38	A	
4514	PCX5 PC software and cable kit for GPS38/45	£94.00	C	
4515	Carry case for GPS45 & GPS45XL	£11.75	A	
4518	Swivel mounting bracket for GPS38 / 45	£23.50	B	
4520	Power / data cable for GPS45 / GPS12XL	£22.33	B	
4522	Hand-held / portable antenna for GPS45	£47.00	C	
4523	Owners manual for GPS45	£15.28	A	
4524	Quick reference card for GPS45	£7.50	A	
4550	Cigarette lighter adaptor for GPS45 & 12XL	£19.39	A	
5519	Remote antenna mount with suction cup and angle bracket	£19.97	A	
GA26	Low profile antenna for GPS45/45XL	£92.82	D	
GA27	Low profile antenna for GPS12XL with MCX connector	£92.82	D	
GA28	Marine low profile antenna with 30ft cable	£105.75	D	
GPS2ANT	GPS2 Hand-held / portable antenna	£70.50	C	
GPS2BB	GPS2 Bicycle mounting bracket	£15.27	B	
GPS2MAN	GPS2 Owner's manual (spare)	£15.27	A	
GPS2MB	GPS2 Mounting bracket	£23.50	B	
MCXADAPT	MCX to BNC adapter cable	£18.50	A	
V45	Video demonstration for GPS45	£30.55	B	

GARMIN Accessories

Please specify GPS model when ordering.



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TO ORDER CALL 01629 580800

NEW! LOWE GPS Accessories

GPS ACTIVE ANTENNA

You'll always be connected!



Ever since we started selling GPS equipment, we have been asked by our customers for a good quality high performance external antenna at a reasonable price. Well, we've found one!

The device shown here consists of a very efficient antenna, correctly polarised for the satellite signals. It is enclosed in a weather resistant plastic housing with fixing magnets in its base, together with a high gain, low noise active preamplifier (see performance specifications). The preamp is powered by a 5v DC supply fed via the coax cable from the GPS receiver. It comes complete with 5 metres of cable and a BNC connector.

We conducted a series of tests using this antenna with a Garmin GPS45. The results we obtained were excellent, with full lock being obtained on all visible satellites, even with the antenna laying on the dash inside the front windscreen of the car. The signal bar indicators on the GPS45 remained at full scale at all times.

This antenna is ideal for use on a car or boat, or on a metallic surface. The magnets can be removed for alternative mounting - subject only to your ingenuity!

Order as GPSANT

Low Price £39.95 Carr. FREE

GPS DC Lead

Cigar lighter lead for Garmin 12V GPS receivers

Order as GPSDC £15.00

Adapter for MCX connector

Get connected



We now stock an adapter to enable this antenna to be used with the Garmin GPS40 and other models of GPS that use the MCX connector including the new GPS12XL. This converts the lead to a BNC socket that allows easy connection to our active GPS antenna.

Order as MCXADAPT £10.00

Computer and cigar lighter socket connector

Ideal for those on the move

We've added another new product to our range of GPS accessories specifically for those who want to use their Garmin GPS receiver with a laptop computer on the move. With our new three way lead, you can connect your Garmin GPS to your computer AND power the GPS from the cigar lighter socket in your car. Works well with Personal Navigator Pro software (see page 7) to offer a full computer based moving-map navigation system for the car or truck.

Order as GPSCAB £29.95



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NEW PRODUCT...NEW PRODUCT

personal NAVIGATOR™

Personal Navigator Professional



Route planning, satellite navigation, postcode/street location, Pub and Good Weekend Guides - All in one package!

Personal Navigator is the only product that offers route planning, satellite navigation, high quality raster maps and a postcode/street location finder, all in one package!

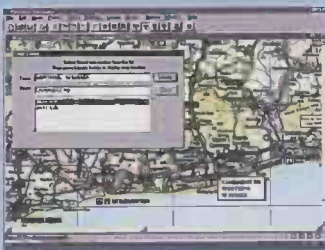
Calculate either the shortest, quickest, cheapest or delivery road route with up to 30 stop overs. Print out your itinerary and maps to take with you or connect a GPS receiver to your portable computer and you will never be lost!

The unique postcode/street finder means that every address in Great Britain can be found. Alternatively, use the only electronic form of Ordnance Survey's place name gazetteer to find any town, village or hamlet in Britain.

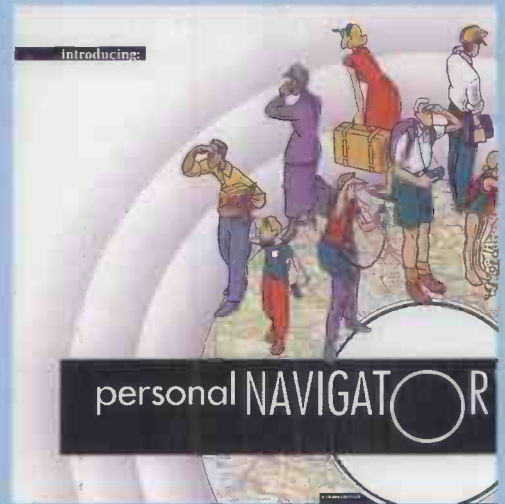
Major features:

- Latest high quality OS maps covering the whole of Great Britain
- Comprehensive route planning using OS's latest database of 140,00 miles of road!
- 220,000 place name gazetteer plus 1.6 million postcodes and 800,000 street names
- The Good Pub Guide 1997
- The Good Weekend Guide to Britain 1997
- Egon Ronay's 1997 guides: Hotels & Restaurants, Pubs & Inns and Bars, Bistros and Cafes
- Add a GPS receiver and show your position on a moving map display!

Locate precisely any of the 1.6 million Postcodes and 800,000 plus street names for Great Britain



ALL FOR JUST £119.00



System requirements:

- Personal computer with a 486 or higher microprocessor; 8MB of memory (RAM); disk space requirements dependent upon components installed (most components can be run from the CD);
- VGA or higher monitor capable of displaying 256 simultaneous colours (512 recommended)
- Microsoft Windows® 95 or Windows NT™: please note product does not run on Windows 3.1 or earlier
- Microsoft Mouse or compatible pointing device
- GPS receiver for moving map and satellite navigation capability



With the addition of a GPS receiver, Personal Navigator can pinpoint your location anywhere in Great Britain. An electronic pointer displays your position accurate to within 25 metres



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ICOM A3

Smallest in its class with crystal clear audio.

This 760 channel transceiver is loaded with features, yet simple to operate.

Compact size, simple operation Previous portable air band transceivers weren't so "portable." The IC-A3/E ushers in a new era in compact portability. But don't let its size fool you, design ingenuity has produced a portable with superior high audio output—audio that's easy to hear even without a headset!

Alphanumeric display with large, easy-to-read characters 6-character alphanumeric notes can be used for convenient display of airport names, call signs, etc. for up to 50 memories.

And more...

- One-touch selection of the 121.5 MHz emergency frequency
- LCD and keypad backlighting for nighttime operation
- Versatile scanning capabilities
- DC connector allows operation with a 12 to 15 V DC power source
- Powerful 5 W of output power (5 W P.E.P. typ., 1.5 W carrier typ.)
- FET power module provides stable operation at high duty cycles
- Rugged die-cast aluminum chassis and polycarbonate casing
- ANL (automatic noise limiter) function to reduce pulse-type noise
- Low battery indicator

Low Price £299.00 

ICOM A200

When it comes to communications equipment in an aircraft, there is no substitute for quality and simplicity.


The Icom ICA200 is easy to see, easy to use and is durable and compact Easy-to-see function display All important information is provided in extra-large characters for easy viewing, day or night. Effective viewing angle increases side visibility making the ICA200 easier to read. At all times, the USE and STBY (standby) window frequencies simultaneously appear on a large function display.

Illuminated switches and function display Switches and the function display are illuminated for night flying. Illumination dims and brightens in synchronicity with the aircraft panel.

- Simple to operate
- 2 ways to select the desired frequency
- Remote control capability
- 3 kinds of tuning steps
- Intercom functions
- Full frequency coverage
- 9 memory channels
- Memory protection capability
- Durable construction and stable output power
- Compact body for easy installation

Measuring just 160mm(W) x 34mm(H) X 271mm(D) the IC-A200 neatly fits the mounting brackets used on most aircraft. Required connectors are also included.



Low Price £729.00 

ICOM A22E

Super Compact NAV and COM portable.

This extra compact aviation transceiver features excellent audio quality on the COM side and a VOR receiver with CDI function on the NAV side. Check and compare the dimensions of the IC-A22/E with other so-called "portable" transceivers.

Navigation features · Displays the radial heading TO or FROM the VOR station · CDI (Course Deviation Indicator) shows deviation from original set course at a glance · All 200 navigation channels · ABSS (Automatic Bearing Set System) identifies the direct radial to the VOR.

Compared to previous portable air band transceivers, the IC-A22/E truly is portable. However, the audio is not compromised -superior audio output that's easy to hear even without a headset.

Ergonomic keypad design provides convenient access to all functions and a rotary control allows quick and easy tuning of all frequency and memory channels.

Alphanumeric display

The IC-A22/E's function display features alphanumeric characters which allow you to store VOR ID's, airport ID's, etc. into memory for easy recall and quick visual recognition.


Built-in sidetone function

The sidetone function allows you to monitor your transmitted audio while using a headset. An aircraft headset adapter is supplied* with the IC-A22/E for this purpose as standard equipment. *Not supplied with some versions.

And more...

- 50 memories with alphanumeric message capabilities
- One-touch selection of the 121.5 MHz emergency frequency
- Versatile scanning capabilities including a lockout function
- DC connector allows operation with a 12 to 15 V DC power source
- Powerful 5 W of output power (5 W P.E.P. typ., 1.5 W carrier typ.)
- FET power module provides stable operation at high duty cycles
- Rugged die-cast aluminum chassis and polycarbonate casing for extraordinarily rugged use
- ANL (automatic noise limiter) function to reduce pulse-type noise
- Low battery indicator and over voltage caution indicator

Accessories packed with the transceiver: Ni-Cd battery, wall charger, headset adapter, belt clip, flexible antenna and carrying case". *Not supplied with some versions

Low Price £369.00 



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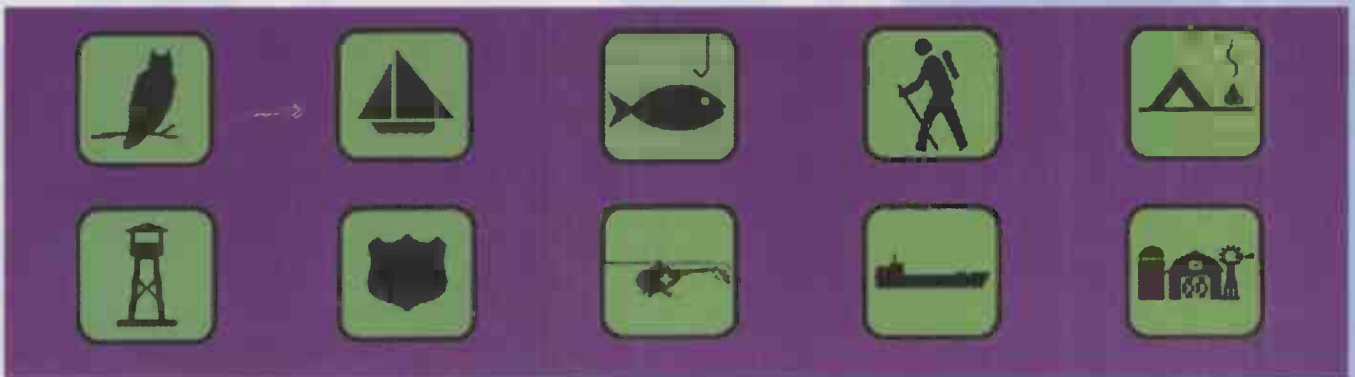


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NIGHT VISION

Ideal for many sporting activities, including sailing, camping, fishing, and great for security down on the farm, schools, industrial sites and even at home - for things that go bump in the night!



NV100 Compact with Illuminator

- Tremendous Night Vision performance at an economical price
- Clear optics with wide field of view, good for close range viewing
- Optimum blend of light amplification, magnification and compact size
- Includes slide-on infra red illuminator for bright viewing in complete darkness

Low Price £299.00 



Moonlight Mini

- Sleek miniature design - only 5.5 inches long
- Lightweight for comfortable extended viewing
- Slips easily into your pocket, briefcase or purse
- Built in infra red illuminator for use in complete darkness

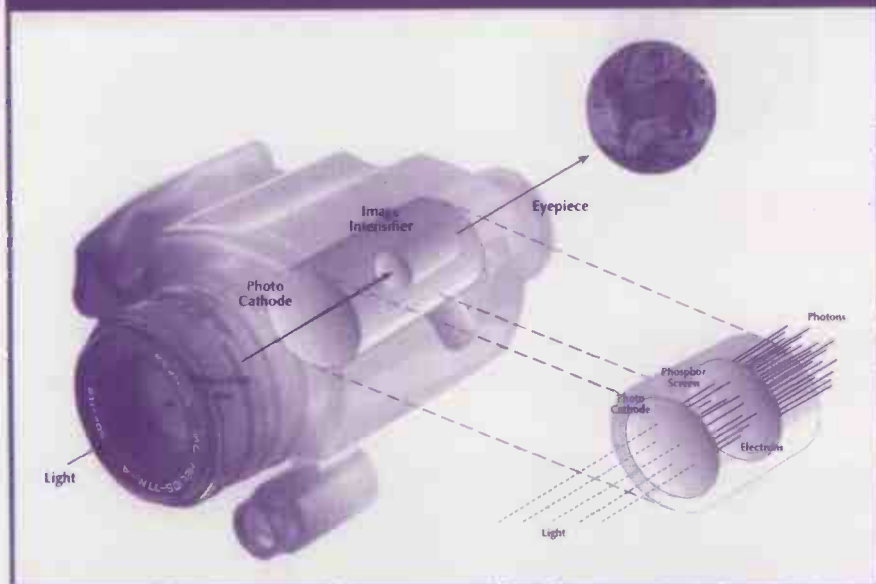
Low Price £279.00 

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TO ORDER CALL 01629 580800

Schematic Moonlight NV-100 Compact



How Night Vision Works Moonlight's Night Vision scopes and binoculars "amplify" existing light, allowing you to see in conditions otherwise too dark for the naked eye. In the Night Vision system, available light (photons) is collected by the objective lens and focused on the functional heart of the device, the image intensifier. Inside the intensifier, a photocathode is "excited" by the light and converts the photon energy into electrons. These electrons accelerate across an electrostatic field inside the intensifier and strike a phosphor screen (like a green monochrome TV screen) which emits an image that you can see. It is the acceleration of electrons which provides gain and enhances the image. In complete darkness there is no available light to amplify. In caves, warehouses, or any other location where no ambient light is available, an accessory infrared illuminator may be added to the Night Vision system.

Night Vision

Night Vision Scopes are extremely handy devices, amplifying low light levels, allowing you to "see in the dark"! Night vision products can be used to enhance a range of outdoor activities and hobbies. Some of the most popular uses include:

Wildlife Observation - Observe badgers, foxes, deer, owls and other nocturnal wildlife in their natural habitat without disturbing them.

Boating - See at night when coming in to the marina or when someone falls overboard. **Home Security** - Investigate disturbances without being seen - for things that go bump in the night!

There are many, many other uses of Night Vision Scopes: Fishing and Hunting, Camping and Caravaning, Walking and Hiking to name but a few. There are obvious security uses too, in many areas of industry including Site Security, Livestock Observation etc.


BIONIC EAR

More and more hobbyists are finding good uses for our commercial products so here's an interesting new item recently added to our security division. The Bionic Ear consists of a high quality microphone, parabolic reflector, high gain amplifier and headphones matched to give in excess of 800% increase in sound level! You can hear a pin drop - and from 50 feet away!

The microphone is an omni-directional type ideal for some applications but coupled to the parabolic reflector it becomes extremely directional. This helps to mask background noises and boost the sounds that you do want to hear. The gain is variable via a control on the microphone and special AGC circuits ensure that sudden loud noises are quickly attenuated, preventing possible harm to your hearing.

Our commercial customers see the obvious security uses of the Bionic Ear. Now we get a lot of nature watchers and listeners who are using the Bionic Ear for recording birdsong and other animal activity. There must be dozens of other applications!



Low Price £99.95 

Catalogue pricing information

All prices shown are inclusive of VAT unless specified. Carriage is additional according to the code shown to the right of each price as follows:

A = £1.00 **B** = £3.00 **C** = £5.00 **D** = £10.00

Applies to UK Mainland only

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TO ORDER CALL 01629 580800

Everyone talks about the weather. Now you can be the local resident expert using one of the following instruments. Technology has made weather measuring more accurate, reliable, and lower cost than ever. Knowing what the weather is doing is no longer a mere topic of conversation, it means money and public/personal security to farmers, marinas, airports, public safety, schools, individuals and more. Here are instruments that present the weather as it is now, how it was, and with experience you'll forecast 24 hours in advance!



Weather Monitor II

The Weather Monitor II combines the most requested features of a sophisticated, professional-quality weather station into one incredible package. Glance at the display to see wind direction and wind speed on the compass rose. Check the barometric trend arrow to see if pressure is rising, falling, or steady. Also measures inside humidity, inside and outside temperature and wind chill factor.

Add the optional Rain Collector, External Temperature/Humidity Sensor and WeatherLink software, and you'll have a powerful computer weather station - at a price that's equally incredible.

Low Price £389.95 

Perception II



The Perception II offers state-of-the-art weather technology at a price affordable for the home enthusiast. Use the Perception to monitor your wine cellar, greenhouse, or any other climate dependent area. Ideal for use on your desk, at the office or your coffee table at home. Requires no installation.

Low Price £149.95 

DAVIS
Davis Instruments

Weather Wizard III



The Weather Wizard III offers sophisticated, professional quality at a surprisingly affordable price. It monitors and stores data about the most essential weather conditions: inside and outside temperature, wind direction, wind speed, and wind chill. The large display shows both wind direction and wind speed simultaneously on a compass rose. Add the Rain Collector to measure daily and accumulated rainfall, and add the WeatherLink for detailed, long-term analysis using your personal computer.

Low Price £199.95 

Weather Wizard II

The Weather Wizard II-S has all the weather monitoring facilities of the Weather Wizard III except wind direction. The anemometer comes with wind cups for measuring wind speed only. There is no compass rose on the display.



Low Price £149.95 

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WEATHER LINK

Connect your PC to make a powerful weather station



**NEW
WINDOWS™
VERSION**

For the ultimate in weather monitoring, connect the Perception, Weather Wizard II-S, Weather Wizard III, or Weather Monitor II to your Personal Computer. The WeatherLink data logger stores data-even when your computer is not running-until it is transferred to your computer. Later you can create graphs, calculate totals and averages, generate summaries, analyse trends, and more-all with your own weather database. Data may be exported to most popular database, spreadsheet, and word processing packages.

Low Price £169.95

WEATHER TALKER

Phone home and hear your own weather report



With the Weather Talker, no matter where you are your instant personalised weather report is only a phone call away. Use it also for offering reports to others who want to phone in. Personalised greetings update callers with the latest weather information. Find out the temperature of your greenhouse on holiday. Requires a PC with 8 or 16 bit expansion slot and 20 MByte of free disk space.

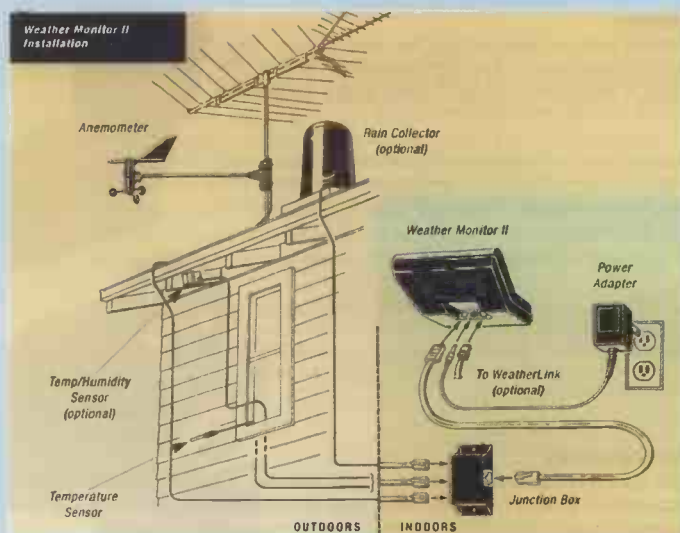
Low Price £399.95

With user-friendly software you can:

- See current conditions at a glance on the instant weather bulletin
- Graph up to two functions simultaneously on a daily, weekly, monthly, or yearly basis
- Graph data from 2 days, weeks, months, or years on the same screen
- Track weather information from multiple weather stations on the same computer (using a WeatherLink for each weather station).
- View information from the same weather station on two or more computers (using one Extra User License Kit for each computer; includes license, manual, and software).

Accessories for your weather station

Code	Description	RRP	Carriage
131	Quick reference card	£11.95	A
7702	Sensor mounting arm	£69.95	C
7704	Rain collector shelf	£36.95	C
7714	Radiation shield	£66.95	C
7736	Alarm output module	£199.95	D
7740	Protected junction box	£49.95	C
7774	Terminal box	£36.95	C
7815	Remote display unit	£99.95	D
7817	External temperature sensor	£19.95	C
7818	Stainless steel temperature probe	£29.95	C
7821	Standard solar radiation sensor	£169.95	D
7841	Standard UV sensor	£329.95	D
7846	Leaf wetness sensor	£49.95	C
7852M	Rain collector	£75.00	C
7859	External temperature / humidity sensor	£129.95	C
7870	Telephone modem adaptor	£5.95	A
7873	Car / boat 12V adaptor lead	£8.95	A
7876040	Extension cable 4 core 12m	£17.95	B
7876100	Extension cable 4 core 30m	£39.95	B
7878040	Extension cable 6 core 12m	£21.95	B
7880025	Extension cable 8 core 7.6m	£14.95	B
7880050	Extension cable 4 core 30m	£24.95	C
7880100	Extension cable 4 core 30m	£44.95	C
7890	Anemometer mast mount	£16.95	B
7911	Anemometer with wind cups and vane	£119.95	C
7912	Anemometer with wind cups	£94.95	C



ALL LOWE PRICES INCLUDE VAT



TO ORDER CALL 01629 580800

Short Range Business Radio

Short Range Business Radio is designed to capitalise on recent moves by the Government to free up additional radio airwaves and make this cost effective method of communication easily available to businesses in Great Britain.

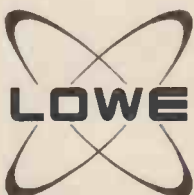
SRBR products are simple to operate and licence. At approximately half the cost of previous two way radios on the market, with licences available at a fraction of their previous cost, it is a very cost effective way for businesses to communicate.

The Launch of SRBR was initiated by an industry group which worked closely with the Radio communications Agency (RA). The RA has announced a low cost radio licence at a price of £30 for three years for an unlimited number of handsets to encourage business use.

Taking advantage of new regulations which allow nation-wide use (previously the majority of licence holders were only permitted to use their radios in one location), SRBR can be used anywhere in England, Scotland and Wales, for local communication (up to around one mile depending on terrain) in open country or built up areas.

Both types of SRBR stocked by Lowe Electronics offer quality and reliability at an affordable price and together with our branded range of low cost accessories such as earphones, headsets and microphones the radios can be put to a variety of challenging applications.

If you would like us to quote for your needs, arrange a demonstration, or loan you a pair of SRBR handhelds for evaluation at your site, please call, fax or email us.



Lowe Electronics Ltd
Chesterfield Road
Matlock
Derbyshire
UK DE4 5LE

Tel +44 1629 580800
Fax +44 1629 580020
info@lowe.co.uk
http://www.lowe.co.uk

Handie-Com

A new concept in short range business radio from Motorola

Lowe Electronics stocks both main models of Handie-com - S200 & S240. S200 at £199+VAT consists of the radio unit, rechargable Ni-cad battery and standard 16 hour charger. S240 at £189+VAT offers the same package but the radio has a built in VOX (voice activation) facility for direct use with relevant earpieces, microphones and headsets.

Lowe Electronics can offer a comprehensive range of LOW cost accessories to enhance these radios including earpieces, microphones, speaker mics and rapid chargers. Full details are given on our web site or are available on request. We also specialise in adapting these Handie-coms for various applications such as Motorcycle training and horse riding tuition.

If you require any further details or would like to see how we can help you please contact us to discuss your individual requirements.



Lowe Price S200 £199.00

Lowe Price S240 £219.00

MAXON - EASIWAVE SL30

Lowe Electronics can now offer you the latest newcomer to the SRBR (Short Range Business Radio) scene - Maxon Easiwave SL30 - The first "proper radio" for this market.

This SRBR radio has significant advantages over other units on the market, as it has a 3 channel switch on the top panel to give the user access to all three available channels at the flick of a switch. This means no complicated process to change channels and users operating on different channels can be contacted immediately.

Charging the radios couldn't be easier as each radio comes with a drop-in hdd charger with a choice of slow and fast charger units available.

Each package comes complete with SL30 radio, 600mAh battery, Trickle charger, belt clip and Free leather case and shoulder strap.

Lowe Price £229.00

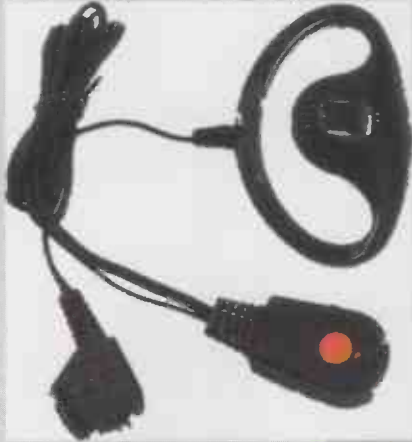
ALL LOWE PRICES INCLUDE VAT



TO ORDER CALL 01629 580800

LEP 400* Series

Amazingly small, it can be hidden almost any-where!



Another variation on our earhanger, the LEP400 is also extremely popular with our commercial customers, particularly those needing a more covert approach in the use of the microphone which is tiny and nestles in with the mini sized PTT!

Low Price £25.85

LEP 500* Series

A great favourite with our professional users, now available to all!



Our popular earhanger earpiece now has a lightweight gooseneck microphone attached! Excellent audio quality both on transmit and receiver will make this an exciting new add-on for Kenwood handhelds. It is so comfortable to wear!

Low Price £29.37

* M = Motorola
K = KENWOOD
Y = YAESU, ICOM, OTHERS

SRBR/PMR Accessories

Low Electronics can offer an extensive range of low-cost Earphones, Headsets, and Microphones to complement your radio systems and enhance operation. We have a number of these specially made to our specifications

LEP 600 Series*



The LEP600 series has an earphone mounted on a lightweight adjustable over-head band which positions it against the users ear. The microphone element consists of a lightweight plastic boom which is attached to the earphone.

Low Price £31.72

LEP 800* Series

The LEP800 is a heavy duty "pilot type" headset which has exceptional outside noise reduction. The ear cups are fitted with liquid seals for maximum comfort over extended wearing periods. The earphone is fitted with an adjustable volume control. The microphone is rugged noise cancelling type, which can be fitted with a removable windshield. Ideal for extremely noisy environments.



Low Price £217.37

ALL LOWE PRICES INCLUDE VAT



TO ORDER CALL 01629 580800

PSR 244



The new PSR244 scanner lets you in on all the action. This scanner gives you direct access to over 24,000 exciting frequencies including those used by radio hams, civil aircraft and many other users. You can select up to 50 channels to scan and change your selections at any time.

Five Channel Storage Banks.

Lets you store five channels in each bank so you can store favourite frequencies together.

Two Second Scan delay.

Delays scanning for two seconds before moving to the next channel allowing you to hear replies on the same frequency.

Channel Skip.

Lets you set your scanner to keep channels you select from being scanned.

Memory Bank Scan

Lets you scan frequencies you store in any of the scanners channel storage banks.

Direct Channel Access.

Lets you directly access any stored channel while you scan the banks.

Lock Button

Lets you lock the keypad preventing accidental channel changing.

Priority Channel

Lets you select one channel which will be checked every two seconds.

Frequency Coverage.

68.0000 to 88.0000 (5khz NFM) Utilities
118.0000 to 136.9875 (25khz AM) Civil aircraft band

137.0000 to 174.0000 (5khz NFM) Utilities

380.0 to 512.0000 (12.5khz NFM) UHF

Scanning Rate 25 channels per second

Searching rate 50 channels per second

Dimensions

60mm x 40mm x 145mm

Accessories included

Belt Clip

Rubber duck antenna

Instruction manual

Requires 6 x AA batteries (not supplied)

Low Price £129.95 

Trackair Air Band Receiver



The new Trackair air band receiver is the best value digital airband receiver available and includes the following features

F.M. Broadcast and AM Airband

F.M. 88mhz to 140Mhz in 50khz steps

A.M. 108mhz to 140mhz in 12.5khz steps

PLL Digital Tuning

16 Channels Per Second Tuning Speed

Auto / Manual Scanning

20 Memories

Memory Indicator

Last Tuned In Station Remembered

Keylock Function

Stereo / Mono Switch

Earphone Socket (Earphone Supplied)

Telescopic Antenna

Runs on 2 x AAA Batteries

Low Price £49.95 

PRO2042



Your new Realistic by RadioShack PRO-2042 1000-Channel Programmable Home Scanner lets you in on all the action! With its convenient rotary tuner and keypad, you can quickly tune to over 196,000 frequencies (within the ranges of 25-1300 MHz).

The secret of the scanner's ability to scan so many frequencies is its custom designed microprocessor - a tiny, built-in computer which also provides all these and other features.

Hyperscan -

Lets you scan up to 50 channels per second and search up to 50 steps per second.



Ten Channel Storage Banks -

You can store 100 channels in each bank to group channels so calls are easier to identify. The scanner automatically warns you if you try to store duplicate frequencies (except when storing frequencies into channels from monitor memories).

100 Monitor Memories -

Temporarily save up to 100 frequencies located during a frequency search, letting you move selected frequencies to permanent channel storage later.

Priority Channel -

You can set the scanner to check one channel every 2 seconds so you do not miss important calls.

Auto Store -

Quickly finds and automatically stores active frequencies in each channel, then searches for additional active frequencies while skipping previously stored channels.



Low Price £349.00 

Tuning steps?
Bank 200
1000000
1000000

YUPITERU

YUPITERU MVT7100

In our view... "the best"



Let's start with the very best scanner that we have ever sold... The Yupiteru MVT 7100. This has been on the market for a couple of years now, and easily out performs anything that has been produced by any manufacturer before or since.

Latest news on this product is that we now have it in stock with CE approval, so that we can legally sell it in the EU.

MAIN FEATURES

- LSB/USB/AM/WBFM/ NBFM Reception
- 1000 memory channels
- Highest sensitivity
- Signal Strength Meter
- Illuminated keypad
- High speed search & scan functions
- User friendly
- Battery save function
- LED display with backlight
- Priority function
- Individual power
- Squelch controls
- Tuning dial
- Channel pass function on memory scan
- Monitor
- Switch key-lock
- Switch attenuator
- Beep (key touch sound)
- On/Off four hours of continuous use
- 12v DC/240v AC mains

Low Price £249.00

YUPITERU MVT9000

Advanced Multimode Scanner



Advanced scanner users will appreciate the additional features found in the MVT9000, whilst beginners are assured of easy operation.

Extended frequency coverage up to 2039MHz opens up new possibilities for frequency hunters! A wide range of frequency step sizes is also included to aid tuning. You can select from 50, 100, 200 and 500Hz plus 1, 5, 6.25, 8, 9, 10, 12.5, 15, 20, 25, 30, 50, 100, and 125KHz. If this doesn't tune fast enough for you, there is a "ten times" function which will step at 10 times the selected rate.

Memories are even easier to keep track of now as you can place alpha numeric tags against channels to remind you. With 20 search and scan banks, organising your favourite channels is so easy.

A novel feature is the bandscope which signals on 64 frequencies and displays the activity in a graphical format. Duplex receive lets you hear both sides when listening to separate receive and transmit frequencies.

There are a number of different scanning modes including bank scan, program scan, memory scan and even mode scan will keep you right up with all the action.

The search and scan speeds are 30 channels per second and the delay times can be set to 2 or 4 seconds.

All in all, the MVT9000 offers extensive control options but does this in a fairly easy way, allowing newcomers to use the more basic functions and those with experience will soon learn how to get the best out of the new features.

530kHz to 2039MHz
1000 Memory channels
20 memory scan banks
Speedy 30 channels per second scan
Scan and Search Channel skip
Signal strength bargraph
Alpha tagging on memories
Dual frequency display
Bandscope
Optional soft case LC9000

Low Price £369.00

YUPITERU MVT3300



The New MVT3300 is Yupiteru's lowest cost scanner that still gives all the advanced features of the more expensive models. Built especially for the European market the MVT3300 includes features normally not found on cheaper scanners which tend to be designed for the American market only. Switchable AM / FM is the most important feature needed on scanners used in England and the MVT3300

has this facility along with user selectable channel steps and 200 memories. The radio can scan at up to 40 channels per second or 50 steps per second. It also has a 10 channel priority memory so you won't miss important radio transmissions while receiving lower priority ones. Auto write is a feature not usually found on lower priced scanners however the MVT3300 allows you to use 20 of its memory channels to automatically store active frequencies found whilst searching. Multiple power options allow great flexibility. You can use nicad or alkaline batteries or run the unit from an external DC supply such as your cigar lighter in the car.

- Frequency range. 66 - 88 Mhz
108 - 170 Mhz
300 - 407 Mhz
806 - 1000 Mhz
- Reception mode. NFM/AM Selectable
- Frequency step. 5, 6.25, 10, 12.5, 25 KHz selectable
- Memory type. Channel memory...200
Band memory...10
rewritable priority
channel memory...10
search pass
memory...100
- Sensitivity AM 0.7 uV
NFM 0.5 uV
- Scan search speed approx. 40 channels /
50 steps per second
- Antenna connector 50 ohm bnc
- Power supply Alkaline dry cells
(1.5V x 4, 6V)
Ni - Cad batteries
(1.2V x 4, 4.8V)
External power source
12V DC (cannot be
used for recharging
internal batteries.)
- Accessories Antenna, hand strap,
earphone, instruction
manual.

Low price £179.00

ALL LOWE PRICES INCLUDE VAT



TO ORDER CALL 01629 580800

ICOM ICR10

Wideband Multi-mode Scanning Receiver with optional computer control

Everyone will remember Icom's ICR1. This innovative receiver has been available for more than 6 years now, and with many users suggesting various improvements, Icom are pleased to announce the ICR10. The ICR10 has been designed to upgrade the basic specifications and functions of the original ICR1 receiver to provide improved performance with new, innovative features.


The ICR10's main features are:

- All mode (NFM, WFM, LSB, USB, CW, & AM) receiver
- Real time bandscope function
- Newly designed 'busy catch scan'.
- Wide-band coverage with all mode receive capability
- Frequency coverage from 0.5 MHz to 1300 MHz
- 1000 memory channels with naming functions
- Dot matrix LCD Voice Scan Control
- Optional computer control
- Built-in noise blanker and Automatic Noise Limiter.
- Real-time bandscope
- The ICR10 has real-time band scope function (a first for handheld) making it easy to find busy frequencies and also easy to see the conditions of receiving frequency bands. Passband width of the bandscope is selectable from ± 100 kHz (20 kHz channel space) and ± 50 kHz (5 kHz channel space).

More outstanding features

EDIT switch provides easy editing or revision of memory contents. Memory copy Auto mode and TS for simplified operation. 36mm large internal speaker for ample power output and clear audio. 4 x AA size dry cells (or Ni-Cd batteries) can be installed. 4.5 V to 16 V external power supply can be connected. 100 Hz frequency resolution Built-in 20 dB attenuator AFC function Noise blanker and ANL (Auto Noise Limiter) are available



Low Price £339.00 

AR 8000

The new concept - All mode wide band world band radio receiver



Main Features

- Frequency coverage 500kHz - 1900mhz
- All mode reception AM NFM WFM USB LSB AND CW
- True carrier reinsertion and specific SSB filter with non offset frequency readout
- memory channels
- search banks
- Priority channel
- Frequency pass
- Rotary tuning dial
- Steps sizes programmable between 50Hz and 995kHz in 50Hz steps. Scan and search speed up to 30 channels per second
- Signal strength meter
- Band Scope
- Backlit LCD, keypad and side panel
- Battery save facility
- Attenuator
- Keypad beep on/off
- Keypad lock
- Monitor switch
- Programmable scan and search including free, delay, audio, level and mode
- Password protected banks
- Select scan list
- Clone facility

Computer control with optional interface

The AR8000 is the result of AOR's long term commitment to produce a new breed of radio receiver which combines full computer compatibility with advanced wide band radio receiver technology.

Optional accessories:

- SC8000 leatherette case
- CU8232 RS232 computer interface
- RCON Windows Control Software

Low Price £349.00 

ALL LOWE PRICES INCLUDE VAT



TO ORDER CALL 01629 580800

ICOM PRC1000

Listen to the world from your computer

The explosive growth of the Internet in the last few years has brought a wealth of information to PC users around the world. However, long before the Internet existed, the airwaves have been filled with communications of all kinds, broadcast radio and television, ham stations, marine and aviation to name just a few. The ICPR1000 lets you listen in to this exciting world from your computer. Don't miss out!

Three interface screens to choose from

Communications receiver screen

Shows S-meter level, a large frequency readout, keypad etc. - what you would see on the front panel of a typical communications receiver

Component Type Screen

Shows all available functions, distributed into 4 components: Tuning, Mode/Volume, Meter/Scan and Bandscope this screen is ideal for those who are already familiar with full function communications receivers.

Radio screen

Shows preset buttons for stations and frequency readout, etc. like a typical stereo tuner- this provides the simplest operation for monitoring your most -listened-to-stations, such as AM/FM broadcasting and TV etc.

External connection

The IC-PCR1000 connects to your PC externally - providing compatibility with many different computer models, even laptops, and offers exceptional receiver performance.

Real-time Bandscope function

Wide frequency coverage with all mode receive

All mode receive capability (WFM, FM, AM, SSB, CW) with Automatic Mode Function

Band tracking RF filters are employed for bands above 50 MHz

Frequency range 0.5-1300 MHz

Unlimited number of memory channels

Memory channels are linked into banks of 50 channels each and are stored on your computers hard disk.

IF shift function

Noise blanker

Digital AFC function

Voice Scanning Control

Noise and S-meter squelch

CTCSS tone squelch decode function

A total of six varieties of scans are available for searching for signals

A wide variety of factory pre-programmed tuning steps are available as well as a user-programmable step for special needs


RF attenuator (20dB) for protecting receiver from distorting due to excessively strong nearby signals

External speaker level control for using a computer's built in speaker

Icom's original DDS (Direct Digital Synthesizer) system provides super fine tuning resolution to 1Hz

9600 baud data receive capability



Low Price **£349.95** 

ALL LOWE PRICES INCLUDE VAT



TO ORDER CALL 01629 580800

ICR8500

Wideband multimode desktop scanner



Icom's "next generation" technology brings you super wide band, all mode coverage from HF to 2GHz, including short wave and VHF/UHF, while maintaining a constant sensitivity. The IC R8500 is not simply a scanner - it's a professional quality communications receiver with versatile features from high speed scanning to computer control.

The IC-R8500 covers a wide frequency range continuously from 0.1 to 2000 MHz, with 10 Hz resolution. while maintaining a high receive sensitivity.

The ICR8500's all mode capability allows you to receive signals in many different modes. from the world over, SSB (USB, LSB). CW, AM, FM and WFM are included. and, several 'speciality' modes, CW narrow (with optional FL52A filter), AM wide. AM narrow and FM narrow are available to receive a variety of signals that require a matched passband width, and with the optional TVR7100 TV/FM ADAPTER allows you to view TV broadcasts (when connected to a CRT monitor) and listen to stereo FM broadcasts.

The ICR8500 has superb high receive sensitivity over its entire range. and the built-in, high quality crystal (TCXO) provides good frequency stability of less than ± 100 Hz below 30 MHz; less than ± 3 ppm above 30 MHz.

Convenient features for receive IF shift and APF (audio peak filter) functions are built-in - a first for a receiver in this class.

In addition, a noise blanker, RF attenuator and selectable AGC functions. clarify desired signals when experiencing various forms of interference. A digital AFC function tunes the receiver to the centre of FM or WFM signals.

An RS-232C serial port is located on the rear panel of the receiver for direct connection to a personal computer. Icom's CI-V data communications format allows you to control and monitor many receiver functions from your PC, as well as to read data or levels in the receiver, such as AF gain, squelch level, received signal strength, as well as receive frequency, channel names and many others. See RCON on Page 37.

Low Price **£1549.00**

WINRADIO™

WINRADIO integrates advanced radio receiver technology and the power of your PC to create a stunning new concept in communication technology. Using the key board or a mouse, WINRADIO can be operated exactly like a professional radio receiver with controls and displays you would only find on high quality equipment.

WINRADIO is a 16-bit PC card which slots into your PC and uses powerful Windows software to control the receiver functions. Comprehensive on-line help is always only a keystroke away.

WINRADIO is unique - there is nothing quite like it and many of our hobby customers who have already invested in it tell us they are having great fun with it. Our professional customers which include police forces, and a number of government agencies and broadcasting organisations tell us it is a powerful monitoring tool with enough performance even for their demanding needs and integrates easily into their new computer based monitoring systems.

In WINRADIO there is a rich variety of powerful scanning options, some of which can only be found on the highest-end receivers. WINRADIO makes scanning easier than ever. It can be the most amazing and entertaining PC add-on you ever had!

Specifications:

Receiver type

PLL synthesised triple conversion superheterodyne

Frequency range 50kHz to 1.3GHz

Tuning steps 1kHz to 1MMHz

Modes AM, FM-W, FM-N, USB, LSB

System Requirements

IBM PC compatible computer with 386 processor or higher

DOS 3.3 or higher, or Windows 3.1 or higher (including Windows 95)

640k RAM (4MB recommended for Windows

Vacant slot for 16 bit interface card

Speaker or headphones with standard 3.5mm stereo plug



Low Price **£329.00**

AOR AR5000

New wide band, all mode base receiver
10KHz - 2600MHz



AOR have been synonymous with pioneering design of high quality wide band receivers for many years building on the strength of several previous models including the AR2001, AR2002, AR3000 and AR3000A. The tradition continues with the arrival the very latest receiver...the AR5000.

The AR5000 is not based upon any specific earlier model but draws on the best points and combines this experience with the latest circuit design. The result of this clever RF design is a very sensitive receiver with excellent strong signal handling capabilities.

The AR5000 is housed in a solid metal cabinet and provides a very wide receive frequency coverage from 10kHz to 2600MHz, all mode reception FM, AM, USB, LSB & CW and has many control facilities aimed toward professional monitoring organisations and the dedicated scanner enthusiast.

Key features

Very wide frequency coverage 10kHz - 2600MHz

All mode reception: AM, FM, USB, LSB & CW

Automatic electronic preselection of the front end

Excellent strong signal handling

NCO (Numeric Controlled Oscillator) with tuning steps down to 1Hz

TCXO fitted as standard

Multiple I.F bandwidths 3kHz, 6kHz, 15kHz, 40kHz, 110kHz & 220kHz

Auto mode bandplan selection

Multi-function LCD with 7 character alpha-text comments

Extensive search & scan facilities

Fast search & scan speeds up to 50 channels / increments per second

Analogue S-meter

1000 memory channels and 10 search banks with EEPROM storage

Auto memory store

Extensive RS232 command list

Sleep timer / alarm

SDU ready

Low Price **£1495.00**

ALL LOWE PRICES INCLUDE VAT



TO ORDER CALL 01629 580800

AIRMASTER 2000

Software decoder for ACARS

ACARS background information

The monitoring of air band communications is a hobby that has become more and more popular over the last ten years. Airlines are currently fitting a system which allows computerised messages to be sent and received via the radio. Decoding of the digital signal is needed and is carried out at a ground station, or in the aircraft itself. This new system is called ACARS (Aircraft Communications Addressing and Reporting System). ACARS via a worldwide network of ground radio systems allows aircraft status, position and other information to be automatically received, thereby relieving the need for pilot or flight engineers to make continuous voice transmissions. Other information transmitted or received through ACARS includes fault reporting, weather conditions and text messages.

Now via AIRMASTER 2000, airband enthusiasts have a low-cost way of monitoring ACARS transmissions, adding a whole new world of airband monitoring. Now airband enthusiasts can have accurate data regarding flight numbers, tail numbers, weather conditions, schedules, flight plan and position information together with a host of engineering information including engine performance and fuel status; all in real-time!

To receive and decode ACARS traffic you need three items:

1. A suitable receiver

ACARS messages in Europe are transmitted in short data bursts on a primary frequency of 131.725MHz. The mode used is AM, and messages are simplex (same frequency for ground station and aircraft). Any reasonable AM airband radio or scanner should be capable of receiving ACARS.

2. IBM Compatible Personal Computer

Decoding requires considerable processing. You will need a minimum of 486 processor with 8mb of memory. ACARS 2000 requires Windows 3.xx or Windows 95 operating system.

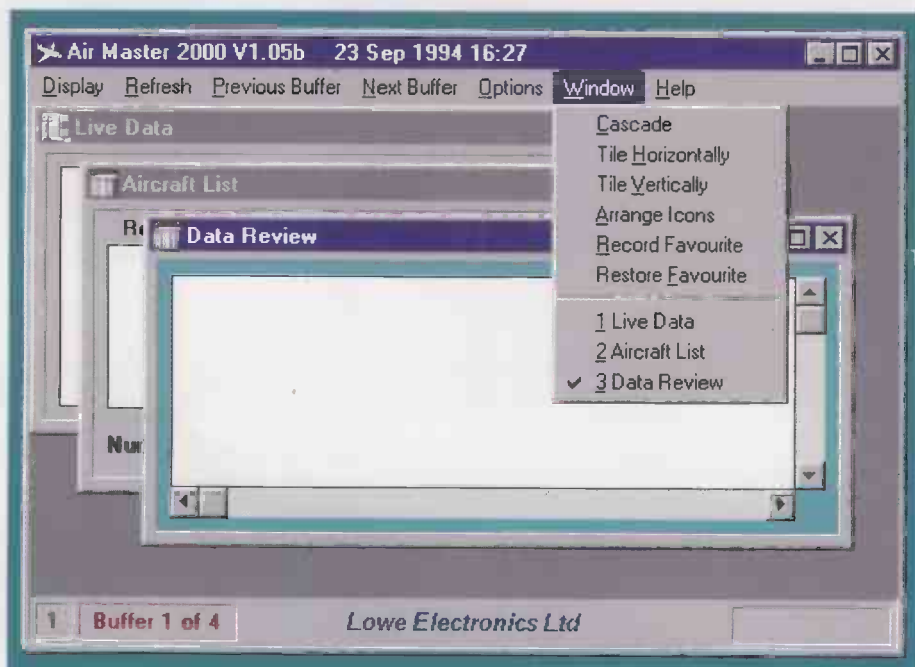
3. AIRMASTER 2000

AIRMASTER 2000 is Lowe's ACARS decoding system. Hardware and software is supplied consisting of a small demodulator built into a 25 way D-type plug and the decoding software. The plug connects and derives its power from a COM port on the PC. The software is installed on the PC hard disk drive. The receiver or scanner is connected to the other demodulator connection.

Operation

The scanner is set to the appropriate frequency, AIRMASTER 2000 loaded and within a few minutes decoded messages should appear. Aircraft number, flight number are shown separate from message text. Options in the software allows you to log the received information to to a data file, printer or both. In either case the screen continues to display real time information. In busy locations the screen can quickly fill and scrolling becomes possible. The display of message contents can be suppressed. If both labels and contents are displayed, the individual messages only have a separator line drawn between them every minute. Up to six strings of "alert text" can be specified. If one of these is received anywhere in the message, the program beeps. This is designed to help spotting particular flight numbers or registration numbers.

Those wishing to study this subject in more depth will find a fuller description in "Understanding ACARS". This book is published by Universal Radio Research in the USA and is available from Lowe Electronics Ltd at £9.95.



Low Price £89.95 - Upgrade from earlier DOS version £29.95

ALL LOWE PRICES INCLUDE VAT



TO ORDER CALL 01629 580800

SCANNER ACCESSORIES



Close up view of LSA1300



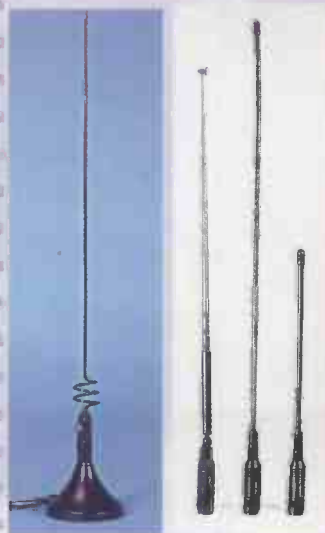
VHF
Airband
filter



LAB

LSA1300

Manufacturer	ProductCode	Description	RRP	Carriage
AOR	ABF125	VHF airband filter NEW!	£28.50	B
Batteries	AABAT4	MN1500; HP7; LR6ST2P; pack of 4 Duracell or Panasonic	£2.99	A
Lowe	JX1	Small extension speaker	£9.95	B
Lowe	JX9	Large ext. speaker with noise filter	£14.95	B
LoweScan	LA801	Standard Gain wideband scanner set top aerial 25 - 2000MHz	£12.95	A
LoweScan	LA881	Enhanced Gain wideband scanner set top aerial 25 - 2000MHz	£19.95	A
LoweScan	LA889	Wideband telescopic scanner set top aerial 25 - 2000MHz	£14.95	A
LoweScan	LAB	Airband ground plane antenna	£29.95	C
LoweScan	LSA1300	Wide range discone antenna; 25 - 1300MHz	£59.95	D
LoweScan	LSA1500	Wide range vertical antenna; 500kHz - 1300MHz	£37.95	D
LoweScan	LA535	Telescopic whip antenna	£14.95	A
LoweScan	WBANT	Wideband mini-mag mount antenna for scanners	£19.95	B
LoweScan	LAC1	Car window antenna mount	£14.95	B
Optoelectronics	SCOUT	Frequency finder	£349.00	D
Optoelectronics	XPLORER	Nearfield receiver 30 to 2000MHz	£899.00	D
RF Systems	SP3	Antenna splitter / combiner / attenuator	£69.95	B
Seldec	SOCS	Signal operated cassette switch	£29.95	B
Sony	TCM353V	VOX operated tape recorder	£39.95	C
SSE	BHA3	Table top stand for handheld scanners	£9.95	B
SSE	NF943	Tunable notch filter	£29.95	B
SSE	PSU101	Scanner PSU & base stand	£34.95	C
SSE	SW2	Short Wave antenna for scanners	£14.95	A
Texpro	SNAPON	Choke kit	£7.00	A
Watson	QS200	Mobile mounting bracket for handheld radios	£10.00	B
Watson	WSC1	Universal carry case	£19.95	A
Yupiteru	LC7000	Leatherette case for MVT7000	£19.95	A
Yupiteru	LC7100	Leatherette case for MVT7100	£19.95	A
Yupiteru	LCVT125	Leatherette case for VT125UK	£15.95	A
Yupiteru	LC9000	Leatherette case for MVT9000	£19.95	A

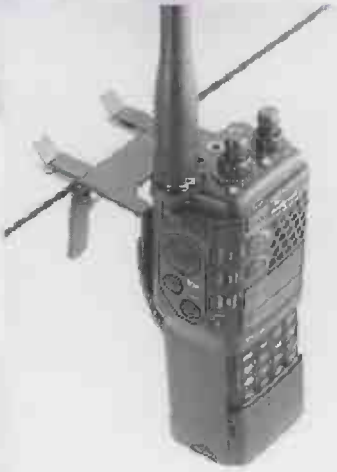


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SCANNER ACCESSORIES



QS200



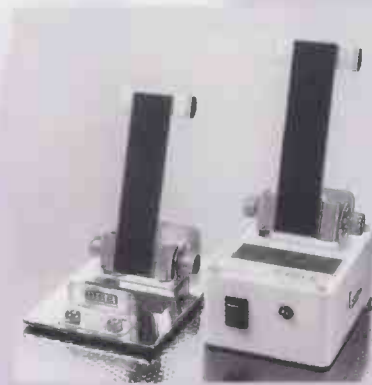
SOCS



LAC1



TCM 353V



BHA3



NF943



WSC1



SP3

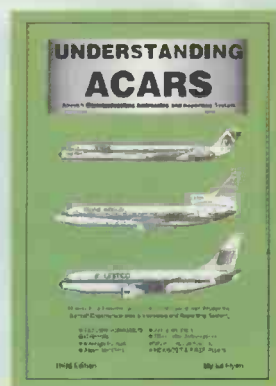
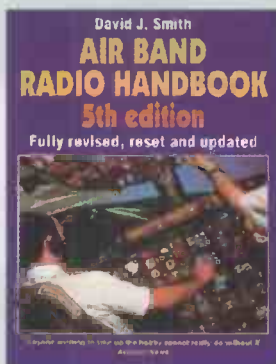
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SCANNER BOOKS

Publisher	ProductCode	Description	RRP	Carriage
Argus	SCANNERS	Scanners 3rd edition;	£8.95	B
Argus	SCANNERS3	Scanners 3	£9.95	B
Argus	SCNR2	Scanners 2; International	£10.95	B
Argus	TAEH	The Aviation Enthusiasts Handbook by Kevin Fox	£9.95	B
DIR Publishing	VUDX	The VHF / UHF DX Book	£18.00	B
Ian Allen	AIRTC	Air Traffic Control Today	£8.99	B
Ian Allen	ARG	ABC Air Band Radio Guide	£5.99	A
Ian Allen	ATC	ABC Air Traffic Control	£6.99	A
Interproducts	EOTBM	Eavesdropping on the British Military	£17.50	B
Interproducts	SHH	Satellite Hackers Handbook	£18.75	B
Interproducts	SMB	Scanning the Maritime Bands	£9.50	B
Interproducts	UKSD5	UK Scanning Directory 5th Ed	£18.50	B
Interproducts	UKSFC	UK Scanning Frequency Chart	£3.00	A
Klingenfuss	KIRG1	Klingenfuss Internet Radio Guide	£19.95	B
Mitchell	WRFRS	Weather Reports from Radio Sources	£6.00	A
PhotAvia Press	AW97	Airwaves '97; HF VHF UHF airband frequency guide	£8.95	A
PhotAvia Press	CS97	Callsign '97	£8.95	A
Pooley	PFG96	Pooley's Flight Guide; 1996	£7.00	B
PSL	ARH	Airband Radio Handbook	£7.99	A
PSL	IARHB	International Air Band Radio Handbook	£9.99	B
Roach T	COMINT	Hobbyist's Guide to COMINT Collection & Analysis	£19.95	A
Spa Publications	SCANSEC	Scanning Secrets	£16.95	B
Tiare	NASA	Monitoring NASA Communications	£14.95	B
Tiare	WR	Weather Radio - Tony Curtis	£14.95	B
Universal	ACARS	Understanding ACARS	£9.95	B
Universal	MCC	Inside the MCC - RH Nicholson	£9.95	B
Universal	WAC	Worldwide Aeronautical Communications Frequency Guide	£19.95	B
Williams	FRUTE97	Flight Routings 1997		B
Z-MISC	AIRTT	Air Traffic Control Today and Tomorrow	£8.99	B
Z-MISC	ATR	Air Traffic Radio	£2.25	B
Z-MISC	HITS	High in the Sky	£5.95	B
Z-MISC	WARH	World-wide Aeronautical HF Handbook	£6.95	A



ALL LOWE PRICES INCLUDE VAT



TO ORDER CALL 01629 580800

Listen to the World...

The NEW Lowe HF150E



Our HF150 has been one of the World's best selling Short Wave receivers over the last 6 years, with over 10,000 units sold. Now we are pleased to announce the new enhanced version with even better performance - the **HF150 Europa**.

From the longest of Long Wave to the top limits of the Short Wave spectrum, the **HF-150 Europa** is designed to give you everything you needed in a real radio receiver. There has quite literally never before been a receiver like the **HF-150 Europa**, because only now have technology and engineering been combined in such an effective package. This is innovation at its very best

Listening to radio can mean many things; news and current affairs from around the world, ships at sea; aircraft wending their lonely way across the oceans of the sky; sounds of conflict; sounds of peace; drama, real or staged; entertainment; crisis; they are all at your fingertips with a good radio receiver. This is the arena in which the **HF150 Europa** operates, and operates equally well at home by your fireside or travelling with you wherever you may be.

The **HF-150 Europa** is designed to be a survivor. No flimsy boxes here. just solid hard alloy casings, metal panels, and machined parts, right down to the silky smooth tuning control and carefully crafted carrying handle supports. This level of mechanical strength carries the bonus feature of ensuring excellent stability and shock proofing. Take it anywhere; it will handle more beatings than you can.

Its performance in electrical terms is impressive, and the specification comprehensive. Tuning range is all the way from 5kHz to 30MHz with variable tuning rate according to the speed of rotation of the main tuning knob. For large frequency shifts, a single press on the Fast button gives tuning in 100kHz steps; a second press returning you to the normal ultra-fine tuning rate.

Reception modes are AM, Upper sideband (USB), Lower Sideband (LSB), which also allows reception of CW/RTTY/FAX, and also included is an all new phase locked AM system which allows selection of either synchronous lower sideband, synchronous upper sideband, or synchronous double sideband. This is the ultimate arrangement for coaxing the best from poor short wave broadcasts, and can virtually eliminate the effects of selective fading.

In the dual conversion design there are two carefully chosen IF bandwidths of 2.6kHz and 6.5kHz, selectable at will by the user to suit reception conditions, whilst the use of quartz crystal master oscillators ensures long term frequency accuracy.

Tuning frequency is displayed on a clear 5 digit liquid crystal display which is also used to show modes, memory information, and all other important operating functions. No less than 60 memory channels are provided, each storing frequency and mode. Memory access is easy and unambiguous, as are all the operating features of the **HF150 Europa**. In fact the whole concept of the **HF150 Europa** is to provide every desirable feature for the listener whilst keeping operation as simple as possible. This is a radio to use and enjoy; not one which baffles you with multi coloured buttons and unnecessary useless gimmicks.

As in all Lowe receivers, particular attention has been paid to audio quality, and whether on the internal loudspeaker or high performance external unit, you can just sit back and enjoy easy listening. Broadcast or voice communications all appear with the same clear quality which characterises the Lowe sound. The front panel is a masterpiece; the rear panel equally so, carrying sockets for dc power (10-15Vdc from the supplied mains power unit or suitable source), external loudspeaker, output for tape recorder, one touch terminals for wire antenna, coaxial input for low impedance feeders or high impedance whip antenna, and the socket for the all important optional keypad. This is the famous keypad of which Larry Magne (Passport to World Band Radio) said "quite simply this is the best keypad in the world". The keypad gives you unambiguous direct frequency entry and instant direct memory access.

Also on the rear panel are the easy access carriers for the internal batteries, and these can be either eight AA size alkaline cells or rechargeable Nickel Cadmium type. If rechargeable batteries are fitted, they are automatically charged whenever the HF150 is plugged into a 12Vdc source. A discreet slide switch selects Normal for average wire antennas, Whip which switches in a pre-amplifier for short whip antennas, and Atten for use on occasions when huge incoming signals are encountered.

Possibly the most amazing feature of the **HF-150 Europa** is its size; only 185 x 80 x 160mm (that gives a footprint of half of one page of this brochure), and by careful choice of alloy materials for the all-metal construction, the HF150 weighs in at only 1.3kg.

The HF150 Europa could be your first real receiver. It will certainly bring you closer to the hobby of listening and give you satisfaction in owning the best receiver in its class.



ALL LOWE PRICES INCLUDE VAT




TO ORDER CALL 01629 580800

Specification

Frequency coverage	5KHz to 30MHz continuous coverage
Reception modes	LSB, USB, AM, Synchronous AM (USB, LSB, DSB, Wide DSB)
Receiver system	uP controlled PLL, Dual conversion superhet First IF @ 45MHz , second IF @ 455KHz.
Display	Backlit LCD showing frequency down to 1 KHz , Mode and Memory information
Tuning	By spin-wheel , employing very accurate ball bearing optical encoder, with 8Hz resolution. Direct frequency entry using optional keypad.
Memories	60 memories storing frequency and mode. Functions :- Preview, Recall and Store.
Aerial inputs	50 ohm via SO-239 socket. Long wire 600ohm and GND, on spring terminals.
R F filters	Automatically switched in five bands :- <ol style="list-style-type: none"> 1. Below 1mHz. 2. 1mHz to 5 mHz 3. 5mHz to 10mHz 4. 10mHz to 20mHz 5. 20mHz to 30mHz
R F attenuator	Switched 20dB.
I F filters	Wide : 7KHz, Narrow : 2.5 KHz.
Audio outputs	Internal Speaker or Ext. Speaker (3.5mm jack) , Record output approx. 200mV (3.5mm jack) Headphone socket (mono or stereo) 6.3mm jack.
Power supply	10 - 15V DC @ approx. 150 to 300mA (2.1mm power jack) or Internal batteries 8 AA size cells an internal charging circuit is included for NiCd /NiMH cells. AC mains power unit supplied.
Dimensions	Size 185 x 80 x 175 mm (WxHxD, overall). Weight approx. 1.3 kg (1.5 kg with batteries)
Options	<p>KPAD-1 Plug-in numeric keypad for direct frequency entry.</p> <p>KPAD-2 Enhanced version of above (available shortly) allowing mode entry and memory manipulation.</p> <p>XLS-1 High quality external loudspeaker</p> <p>IF-150 RS-232 interface for connection to PC compatibles software included to give receiver control, logging , database manipulation.</p> <p>MPW Whip aerial for portable use with HF150 internal whip amp.</p> <p>SM-1 External 'S' Meter for signal strength indication (available shortly)</p> <p>C-150 Padded carrying bag with room enough for receiver and accessories.</p> <p>MB-150 Mounting bracket , with two quick release catches.</p>

Performance

Sensitivity	Into 50 ohm aerial input, for 10dB sinad AM signal - modulated to 70% depth at 1kHz. $< 3\mu\text{V}$ 50kHz to 500kHz $< 2\mu\text{V}$ 500kHz to 30mHz $< 0.5\mu\text{V}$ 500kHz to 30mHz with internal whip amplifier SSB signal - unmodulated, resolved at 1kHz $< 1.5\mu\text{V}$ 50kHz to 500kHz $< 1\mu\text{V}$ 500kHz to 30mHz $< 0.3\mu\text{V}$ 500kHz to 30mHz with internal whip amplifier
Selectivity	Narrow filter 2.6kHz @ -6dB, 4.1kHz @ -60dB Wide filter 6.5kHz @ -6dB , 10.2kHz @ -60dB
Dynamic range	Reciprocal mixing using narrow filter 75dB @ 5kHz 85dB @ 10kHz IP3 point @ 50kHz $> +18$ dBm
Frequency stability	Drift @ 20C $< 30\text{Hz}$ / hour error $< 50\text{Hz}$ -10C to + 50C error $< 200\text{Hz}$
Audio	1.6W into 8 ohms at 5% THD (With 12V PSU)
AMS Detector	Lock range : DSB +/- 100Hz , SSB +/- 50 Hz

Low Price £499.00 

Serious listening with the high quality Lowe HF250 Europa



The HF250 EUROPA offers the serious short wave listener a receiver with the performance matching the best receivers on the market, but at a very attractive price. We have concentrated on the real attributes which any HF receiver needs today - the reciprocal mixing and intermodulation free dynamic range. Thus we have a quiet receiver which has better overload characteristics than many other sets, which lets you hear the stations that are really there, rather than intermodulation products generated within the equipment itself.

The tuning range is 30kHz to 30MHz without gaps. The tuning rate is determined by synthesiser design, and in the HF250 EUROPA this is 8 Hz steps - better than most receivers. To help give the true "VFO feel", we've added a high quality optical encoder allowing a certain amount of adjustable "spin".

The back-lit frequency display reads to 100Hz resolution. Frequency display in all modes is absolutely correct. Because utilities listeners wanted more precise tuning for fax and RTTY reception the 100Hz display resolution will help broadcast band DXers identify stations known to be a little off frequency! You'll also be able to tune your HF250 EUROPA from the comfort of your armchair with our new RC250 infra-red remote commander, included with the receiver. All modes are available on the HF250 EUROPA, with AM, Synchronous AM, USB, LSB, CW and NBFM as standard. Either sideband can be selected in synchronous mode. The HF250 EUROPA has a bank of 255 memories that stores frequency, mode, and filter setting.


The HF250 EUROPA comes with a comprehensive set of IF filters, chosen for optimum performance for broadcast band DXers. For AM listening we have 7kHz, allowing good fidelity from good, strong broadcast signals whilst narrower 4.5kHz and 3.5kHz filters allow better selectivity for those who like to wrinkle out weak AM DX stations. The 2.2kHz SSB filter is an optimum for choice of filter for utility listening around the commercial aviation and maritime bands. It is also an ideal bandwidth for the many data modes now found on short wave. At the same time it is also narrow enough to sort out ham radio stations with a tendency to operate very close together! For the CW listeners, we've also included a 200Hz audio filter for sharp reception of Morse code signals.

All frequency information is shown on the main display, together with the filter status, attenuator status, and memory channel contents, and of course the clock display. Indication of mode and synchronous AM detector lock is shown by a series of small LED's. The S-meter is also illuminated. Computer control has become very popular in the last few years so we've included an RS232 interface in the HF250 EUROPA. This will allow selection of frequency, filters, attenuator and management of memory channels. The interface is bi-directional, allowing memory information to be sent from the radio to the computer for file storage. S-meter feedback to the computer is also provided. We provide a very simple DOS-based program free of charge to get you started. If you want something more advanced, ask for details of RCON - our new Windows-based receiver control application. The record output socket has a fixed level, ideal for tape recording but now probably more used for providing input to software and hardware decoders, allowing reception of FAX, RTTY, SYNOP, Morse etc. Again, we have various optional software packages available that will offer these facilities.

The HF250 EUROPA operates from 12VDC, and a mains power unit is included with the receiver. You can of course run it from a vehicle battery and an optional DC lead will be available with a cigar lighter connector. If portable operation appeals, a further option available is an active whip aerial, the WA250; the pre-amplifier fitting inside the receiver, and the telescopic whip connecting to the coaxial aerial socket on the rear panel. The whip amplifier can also be used as a pre-amplifier for short wire aerials in difficult locations.

All in all.

The HF250 EUROPA is an amazing receiver, and is guaranteed to satisfy the genuine listening enthusiast who will appreciate its uncompromising performance. You will not be disappointed.

Low Price £799.00 

ALL LOWE PRICES INCLUDE VAT



TO ORDER CALL 01629 580800

Receiver specification

Receiver system

Microprocessor controlled PLL tuning, dual conversion super heterodyne receiver. First intermediate frequency 45 MHz. Second intermediate frequency 455 kHz.

Tuning

Tuning rates : CW, SSB and AMS AMSL AMSU modes - 8 Hz steps, 1.8 kHz per revolution.

AM mode - 50 Hz steps, 11 kHz per revolution.

FM mode - 125 Hz steps, 11 kHz per revolution.

Tuning step size increases with rapid rotation.

Remote Commander frequency entry is to 1 kHz resolution.

I F filters

SSB and AM : 2.2, 3.5, 4.5 and 7 kHz.

AMS : 2.2, 3.5, 4.5 and 7 kHz.

CW : 2.2 kHz.

FM : 12 kHz. (750 μ s audio de-emphasis).

Audio filters

200 Hz wide audio peak filter centred on 800Hz, selectable in CW mode.

Dimensions

Size 280 x 105 x 205 mm (W x H x D, overall).

Weight approx. 2.7 kg.

Receiver Performance.

Sensitivity

Signal levels are in micro-volts PD across the 50W aerial input. AM and SSB sensitivity measured with 10 dB signal/noise ratio at the receiver output. FM sensitivity measured for 12dB SINAD. AM signal - modulated to 70% depth at 1 kHz. FM signal - deviated by 3 kHz at 1 kHz. SSB signal - unmodulated, resolved at 1 kHz.

Receiver Frequency

60 kHz to 2 MHz	AM	<1.2	typically	1.1
	FM	<1.1	typically	1.0
	SSB	<0.7	typically	0.5
2 MHz to 30 MHz	AM	<1.1	typically	0.8
	FM	<1.0	typically	0.8
	SSB	<0.4	typically	0.3

Noise Floor -127dBm (no attenuator)

SSB carrier point attenuation (2.2 kHz filter) 20 dB.

CW mode filter position : (ref. carrier frequency) -6dB points at -0.8 kHz and +1.35 kHz

Resolved audio 800 Hz at carrier frequency.

200 Hz audio filter centred on 800 Hz,

Bandwidth 170 Hz at -6dB, 850 Hz at -20dB.

FM Adjacent channel selectivity :

12.5 kHz channels 40 dB (1.5 kHz deviation)

25 kHz channels 65 dB (3.0 kHz deviation)

FM Signal capture ratio 9 dB

Dynamic range

Reciprocal mixing effects : (2.2 kHz filter)

80 dB at 5 kHz from wanted signal.

90 dB at 10 kHz from wanted signal.

105 dB at >> 100 kHz from wanted signal.

Selectivity

I F Filter factor 6:60 dB)	Bandwidth (kHz)	Shape
2.2 kHz	2.3 at -6dB	SF 1:1.5
	3.4 at -60dB	
	5.5 at -80dB	
3.5 kHz	3.5 at -6dB	SF 1:1.7
	4.8 at -60dB	
	7.0 at -80dB	
4.5 kHz	5.8 at -6dB	SF 1:1.5
	9.7 at -60dB	
	10.6 at -80dB	
7.0 kHz	7.0 at -6dB	SF 1:2
	12.9 at -60dB	
	14.6 at -80dB	

Intermodulation effects :

(2.2 kHz filter)

50kHz separation of 2 signals +17dBm

20kHz separation of 2 signals +16dBm

10kHz separation of 2 signals +10dBm

Intermodulation free dynamic range:

>100dB at 50kHz separation

Spurious responses

Images :	At +90 MHz	75 dB rejection
	At +910 kHz	90 dB rejection
Fixed responses :	At 45 MHz	85 dB rejection
	At 455 kHz	100 dB rejection
	At 22.5 MHz	75 dB rejection

Input signal level	Audio output level	
	(AM mode)	(SSB mode)
No signal	-11 dB	-21 dB (noise only)
0.5 μ V	-2 dB	-7 dB
5 μ V	0 dB	-1 dB
50 μ V	0 dB	0 dB (ref. level)
100mV	+0.5 dB	+2 dB
(AGC limit)		

AGC characteristics

AM mode : Attack time 500 ms for 60 dB level change
Release rate 30 dB per second

SSB mode : Attack time << 10 ms for 60 dB level change

Release rate 40 dB per second

Noise blanker

Audio blanking triggered by IF signal level. Permanently enabled, operates on all reception modes. Blanking period 500 μ s. Threshold level 12dB above normal carrier.

Audio output

1.6 W into 8 at 5% THD (With 12V power supply unit). 2.0 W into 4W 5% THD (With 12V power supply unit). External loudspeaker output is suitable for loudspeakers with impedance's of 4W or greater. Headphone output: up to 4 volts from 220W. Record output : 350 to 400 mV from 5K

Signal to Noise ratio

AM mode : 7 kHz filter, ref. 70% modulation.

Input signal	S/N	Weighted S/N *
5 μ V	29 dB	33 dB
>50 μ V	47 dB	52 dB
SSB mode : 5 μ V	34 dB	37 dB
>50 μ V	50 dB	54 dB

Specification subject to change without notice due to our policy of continuing product development.

TRIO/ KENWOOD R5000

Competition class
communications receiver



The R-5000 is a competition class communications receiver with superior dynamic range, having every conceivable feature, and designed to receive all modes (SSB, CW, AM, FM, FSK) from 100 kHz to 30 MHz. With the optional VC-20 "VHF Converter Unit" coverage of the 108-174 MHz frequency range is provided. Advanced microprocessor technology controls various features, including dual digital VFOs, 100 memory channels, memory scroll, memory and programmable band scan, superb interference reduction and other features for ease of operation to enhance the excitement of listening to stations around the world.

Low Price £1059.00 

Watkins-Johnson HF1000



The HF-1000A is a fully synthesised, general purpose HF receiver that monitors RF communications from 5kHz to 30MHz with 1MHz tuning resolution. The HF-1000A achieves high performance at low cost, by combining analog and digital signal processing (DSP).

Low Price £3495.00 

ICOM IC-72E

A winner with SWLs
everywhere!




Icom's HF receivers have a reputation for quality worldwide. Building on this reputation with superior receiver circuits in a compact body, the IC-72 will satisfy SWLs, BCLs, professional listeners and serious DXers without fail.

High sensitivity, 100dB dynamic range receiver are amongst its many features.

Summary of the specifications

Frequency range	30kHz - 30MHz
Reception modes	USB, LSB, CW, AM, (FM Optional)
Tuning steps	Programmable 1-10kHz
Circuit type	Dual conversion superheterodyne
	Triple on FM
IF	1st 70.45 MHz
	2nd 9.01 MHz
Audio output	>2.0 watts into 8 ohms

Low Price £895.00 

YAESU FRG-100

Powerful performance at a
terrific price!




The FRG-100 is YAESU's high performance communications receiver providing general coverage reception in CW, SSB, AM, and FM modes from 50 kHz to 30 MHz. Micro-processor control of major functions permits ease of operation and features that both new and seasoned shortwave listeners will appreciate, at an affordable price.

A special Broadcast Band selection mode permits instant selection of 16 pre-programmed international AM broadcast bands (LW, MW through 11 Meters), convenient & instant QSY!

Summary of the specifications

Frequency range	50kHz - 30MHz
Reception modes	USB, LSB, CW, AM, (FM Optional)
Tuning steps	10Hz/100Hz (CW,SSB) 100Hz/1kHz (AM,FM)
Circuit type	Dual conversion superheterodyne
IF	1st 47.21MHz 2nd 455 kHz
Audio output	<1.5 watts into 4 ohms

Low Price £489.00 

Features

- Frequency coverage from 5 kHz to 30 MHz in 1-Hz steps
- High dynamic range: +30 dBm 3rd-order intercept typical
- Digital filtering provides 58 IFB Ws from 56 Hz to 8.0 kHz with exceptional shape factors
- AM, Synchronous AM, FM, FSK, CW, USB & LSB & ISB detection modes standard
- Tunable notch filter
- Fast, flexible scanning with 100 memory channels
- Large readable LED displays & user-friendly controls
- Noise blanking & passband tuning
- Internal switchable preamplifier & attenuator
- Operator-selectable RS-232, RS-485 or RS-422 remote control
- Built-in self test
- Optional Suboctave Preselector, Digital Data Output & Speech Enhancement Unit

ALL LOWE PRICES INCLUDE VAT



TO ORDER CALL 01 629 580800

JRC NRD-535G

The ultimate in short wave receivers

For a lot of people it probably is, and represents the top of the market for those who lack the budget of a small country or are yet to win the National Lottery! Offers great performance "out of the box" but for those prepared to spend a little more on some serious options this great performer can be turned into an excellent one, making the NRD535 suitable for the serious short wave listener and professional users alike



Optional units

CFL243W BWC (Bandwidth Control). Provides continuously variable pass band from 2.4Hz to 500 KHz without moving centre frequency.

CMF78 ECSS Provides synchronous AM demodulation with facility to choose which sideband to use depending on reception conditions and interference. Probably the most powerful receiving aid available for the short wave listener. Distortion due to selective fading is dramatically reduced.

CMH530 RTTY unit. Provides decoding of RTTY signals to drive an RS-232C interface output for connection to a computer or terminal. Shift width of 170/425/850Hz. Baud rate 37-75. Normal and inverted polarity. Outputs are also provided for driving a tuning indicator (supplied) or a conventional X/Y oscilloscope display.

CGD135 High stability master oscillator kit. Gives/- 0.5ppm stability over a temperature range of -20 to +50 degrees C.

CFL231 Crystal filter, 300 Hz bandwidth (6dB) **CFL232** Crystal filter 500Hz bandwidth (6dB) **CFL233** Crystal filter 1KHz bandwidth (6dB) **CFL218A** Crystal filter 1.8KHz bandwidth (6dB) **CFL251** Crystal filter 2.4KHz bandwidth (6dB)

Note:- Up to two option filters can be fitted to the NRD535

NVA319 Matching external loudspeaker for NRD535.

- Frequency range, 100KHz to 30 MHz
- Reception modes, USB/LSB/CW/AM/FM/FSK/RTTY plus ECSS with CMF78 option
- Frequency tuning step, 1Hz
- Memory channels, 200 each storing frequency, mode, bandwidth, AGC setting, and RF attenuator setting.
- Receiver system, Triple superhet (Double superhet on FM)
- 1st IF, 70.455 MHz; 2nd IF, 455KHz; 3rd IF, 97KHz (all modes except FM)
- Sensitivity, Better than 0.3uV, 1.6-30 MHz (SSB for 10dB S/N ration INTER B/W)
- Dynamic range 106dB.
- Image and IF on, 70dB or better
- Pass Band Shift range, +/- 1KHz
- Notch Attenuation, 40dB or better
- RS232 Interface built in for computer control
- Bright easy to read display
- Bandwidth Control (BWC) provides continuously variable IF bandwidths down to 500Hz
- Direct frequency entry via keypad

Low Price £1399.00 

JRC NRD345G

JRC need no introduction to most SWL's but their new receiver does! An all-mode receiver, the NRD345 includes synchronous detection as standard, offering low signal distortion and clear sound. Direct Digital Synthesis is employed in a phase locked loop circuit to enhance the carrier to sideband noise ratio. The RF amplifier and the first mixer in the front end stage incorporate 4 low-noise junction-type FETs with excellent cross modulation characteristics respectively to ensure high sensitivity with wide dynamic range. Other features include a variable level noise blanker, clock and timer functions and a built-in RS232 interface for computer control. We'll be writing a driver for our RCON control software just as soon as we have our first European spec samples! This will enhance the NRD345's 100 memory channels and scanning capabilities. The new receiver offers great value for money at just £749.00 (subject to exchange rates etc.).



Low Price £749.00 

Specifications

- Frequency range 0.1 to 30MHz
- Modes AM, Synchronous AM, CW SSB, FAX
- Frequency stability 10ppm or less 5 to 60 min
- Frequency step size 5Hz, 100Hz, 1kHz and 10kHz
- Receiving system Double superhet
- Dynamic range 100dB (500Hz IF bandwidth)
- Image rejection 70dB or more
- IF rejection 70dB or more
- Antenna impedance 50W and 450W
- Antenna input attenuator 20dB
- AGC characteristics AF output varies with 10dB or less for the antenna input of 3 microvolts to 100 millivolts
- AF output 1W or more with 8W load at 10% distortion
- RS232 interface 25 pin D type connector, 4800 baud 1 start bit, 8 data bits, non-parity, 1 stop bit

ALL LOWE PRICES INCLUDE VAT



TO ORDER CALL 01629 580800

LOWE SRX100

Low cost entry to the world of radio communications



- Frequency range 30kHz to 30MHz
- 1kHz tuning steps
- Clarifier +/- 800Hz
- 1µ sensitivity
- 2W audio output
- USB, LSB, AM
- Liquid crystal display
- Built-in speaker
- Dual conversion, superhet design
- Signal strength meter
- Digital frequency read-out to 1kHz
- Full CE approval
- 12V DC power adaptor supplied
- Dimensions 185mm W x 190mm D x 65mm H

Low Price £159.00

SONY ICF-SW55

125 preset world receiver



PLL synthesizer tuner for FM/MW/LW/SW wavebands
125 station presets and 25 station names
100Hz step tuning for shortwave
Auto scan
AM double superhet technology
Single-side band
AM band width switchover
External AM antenna socket
FM stereo via headphones
Built-in timer
Includes:
compact antenna/
stereo headphones/
carrying case/
comprehensive shortwave handbook

Low Price £299.95

SONY ICF-SW77

High end world receiver

PLL synthesizer tuner for FM/MW/LW/SW
Presets for 100 stations with 162 different frequencies
50Hz tuning steps for SW
Auto scan
AM dual super technology
Single-side band
Synchronous detector
AM band width switchover
External AM antenna socket
FM stereo via headphones
Tone control
Built-in timer
Includes:
Compact antenna
stereo earphones
comprehensive shortwave handbook



Low Price £399.95

SONY ICF-SW7600G

World receiver with synchronous detector

FM/MW/LW SW PLL synthesizer tuner
22 preset stations
Digital clock with timer
FM stereo via headphones
Single-side band
Synchronous detector
Station tuning in 1kHz increments
2 standby function
Key protect
Direct tuning
Includes:
compact antenna/
soft case/comprehensive shortwave handbook



Low Price £199.95

SONY ICF-SW100E

Compact cassette case-sized world receiver

Station presets for 50 frequencies with station names
Single-side band system
Multifunction LC Display
FM stereo via headphones
Synchronous detector
Sleep function
Shortwave tuning in 5Hz and 1kHz steps
2-mode timer
Includes: compact antenna/
stereo earphones/
carrying case/comprehensive shortwave handbook

Low Price £219.95

SRX50

Our lowest priced short wave receiver!

The SRX50 is intended as an entry level short-wave receiver, covering the most popular bands and offering local radio reception via longwave, medium wave and VHF bands via a built-in telescopic antenna. A digital clock with sleep and alarm functions is also built-in making it an ideal travel radio. It is about the same size as a paperback book, 180 X 120 X 35mm, and is powered by three AA size batteries. There is also a socket for an external DC supply

Frequency ranges are 153 to 280kHz, 531 to 1602kHz, 5.9 to 15.5MHz and 87.5 to 108MHz. Frequency step sizes are 1kHz on longwave, 9kHz on medium wave, 5kHz on short-wave and 50kHz on VHF. The LCD display shows time and frequency, tuning is spot on. Each of the bands stores five memory channels to make selection of your favourite frequencies easier.

Low Price £39.95

ALL LOWE PRICES INCLUDE VAT



TO ORDER CALL 01629 580800

Magnetic Long Wire Balun

Essential for SWL long wire antennas

The RF systems Magnetic Long wire Balun and MLB Isolator can be used together to create an excellent low-noise antenna system that will help to eliminate some of the interference so common on the short wave bands. There are three main sources of noise that we can consider:

Atmospheric noise

Electrical noise generated in the atmosphere is a fact of nature, and nothing can be done to remove it. There is also the problem of what is often referred to as "Static Rain", where during periods of thunderstorm activity, a high static charge is built up on the aerial which eventually discharges to the earth by leakage, but which causes "frying" noises in your receiver. To eliminate this sort of noise, the aerial system must have a dc connection to earth in order to bleed away static charges which would otherwise build up on the aerial.

Noise from the earth connection

The aerial circuit needs to be completed to earth in order to generate signals at the receiver. If the receiver is mains powered, there will almost certainly be a connection between the receiver chassis and the mains earth, and this will also complete the aerial circuit and allow the receiver to work. The mains supply earth is unlikely to be a good RF earth, and between your receiver and the point at which the connection to true earth is made, there are sources of electrical interference also connected to the same line, for example the hairdryer being used by the neighbour ten houses away; your own central heating system; the arc welder in the garage two streets away, and so on. The rule here is that the aerial circuit must be completed by a low noise earth connection, and this should NOT be the electricity supply earth if these problems are to be avoided

Noise from the feeder wire

Much local electrical noise has a large vertically polarised component, and a vertical aerial does pick up more noise than a horizontal aerial. This being so, if you connect your receiver to the end of your horizontal aerial by means of a single feed wire, that feed wire will pick up a great deal of noise, not only because it is vertical, but also because it is close to the house and therefore the house wiring which is a source of much of the noise. Also because the feeder wire is operating at high impedance, there are considerable losses from it to the nearby building, particularly if the wire is run very close to a wall. The use of screened cable connected between the end of the horizontal aerial and the receiver is counter productive because the internal capacitance of the cable shunts the signal to earth in a high impedance system. Clearly, the rule here is that the vertical feeder MUST be screened, and the outer screening braid connected to a good RF earth. At the same time, the feeder should be operated at a low impedance to minimise the shunting effect of cable capacitance between conductor and screen.

The Magnetic Longwire Balun

Connected directly to the end of the wire aerial the unit has a high frequency ferrite matching transformer which gives impedance transformation from the aerial to the low impedance necessary for connection to the coaxial cable down lead. The bandwidth of the ferrite transformer is substantially flat from about 50kHz to 60MHz, thus giving constant performance across the whole If/mf/hf spectrum. Completion of the aerial circuit to earth is made by the outer conductor of the coaxial down lead. Installed correctly, the MLB can help to eliminate a lot of interference from local mains appliances and wiring if a good quality coaxial downlead is used.

The length of the aerial itself is usually decided by the length of the



available space, and most receivers will work well with an aerial of 10 to 15 metres. If you have a particular interest in low frequency listening (below 2.5MHz) then there may be some benefit from a longer aerial. What is probably more important is the distance from the house to the MLB - the further apart they are, the less noise will be picked up by the antenna wire. Given a garden length of say 30m, an antenna length of 20m would probably be okay and the balun mounted 10m from the house. With only 20m of space then shorten the antenna rather than shortening the distance between the MLB and the house. You need to arrive at a good compromise.

The MLB Isolator

This unit contains a wide band ferrite transformer which provides the all-important job of isolating the earth connection of the aerial system from the potentially noisy earth connection between the receiver and the ac mains supply. A terminal mounted on the side of the MLB isolator is connected to an earth spike to complete the connection to earth with a coaxial socket each side of the transformer on of which is connected to the antenna side and the other to the receiver..

It is no exaggeration to say that the RF earth connection is the key to success. We recommend using a copper plated earth spike driven into the ground for at least 1 meter. This RF earth should NOT be connected to ANYTHING except the earth terminal on the MLB Isolator. The MLB isolator can be mounted anywhere between the MLB and the receiver but it is important to keep the wire between the MLB isolator and the earth spike as short as possible. If mounting outside, it must also be waterproofed, just like the MLB.

The MLB can be used on its own but further improvements can be made if used in conjunction with the MLB Isolator.

MLB £45.00 MLBISO £45.00

MLB antenna kits contain an MLB, antenna wire, coaxial connector, weatherproof boot, nylon cord and an insulator.

MLBAMK1 12.5m longwire kit £65.00

MLBAMK2 20m longwire kit £75.00

There is a special version of the MLB for marine use that converts an insulated backstray into an excellent shortwave antenna



MLBMARINE £75.00

ALL LOWE PRICES INCLUDE VAT



TO ORDER CALL 01629 580800

ACTIVE ANTENNAS

DX1PRO

The world's best active antenna

The DX1Professional is an omnidirectional active antenna which has been designed to receive signals coming in at any angle and any polarisation. It offers constant sensitivity over the frequency range 20kHz to 54MHz but can be used for monitoring anywhere between 10kHz and 85MHz. The indoor control unit can feed two receivers and provides stepped attenuation as well as amplification up to 6dB. The input intercept point is better than +75dBm (2nd order) and +50dBm (3rd order) with a noise figure better than 4dB at 30MHz. The DX1PRO was designed to meet the needs of professional and military users. The cage construction is quite unique and the overall dimensions are 1.1m dia. and 1.25m high.



Low Price DX1PRO £375.00 

DX10 Active antenna

The DX10 is a low-cost high quality active antenna for long, medium and short wave reception. It has been designed for outdoor use but can also be used indoors. The unusual amplifier design increases gain with frequency, ensuring that maximum amplification at higher frequencies. At lower frequencies the gain is less, preventing high power signals in the medium wave band overloading the receiver. Thanks to high intercept points (+55dBm for 2nd and +30dBm for 3rd) the DX10 can be used with low-cost receivers to good effect. It stands just 90cm high and is 32mm dia and the main element is a helical, wound inside a sealed fibreglass tube for omnidirectional reception of both horizontally and vertically polarised signals. The DX10 is complete with mains power supply.



**Low Price DX10
£175.00** 

LOWE AA150

The AA150 has been designed primarily to work with modified versions of the Lowe HF150 receiver, where power is fed directly from the antenna socket of the receiver. It can be used with other receivers. The antenna is also available with a mains power supply and antenna adaptor. Like the DX10, the gain of the AA150 increases with frequency and has identical specifications. Construction is of stainless steel and the overall height is just 1.25m high with a base diameter of 35mm. 14m of high quality coaxial cable is moulded in at the base of the antenna for quick installation. The base incorporates a thread suitable for mounting on to a standard marine antenna ratchet mount. It can also be clamped to a stub mast for home installation.

Two versions are available:

AA150

Intended for installation at home where it can be permanently installed. It is complete with 14m of coaxial cable moulded into the base and comes with a mounting bracket that will fit onto a stub mast up to 50mm diameter. A mains unit that incorporates an adaptor which injects the amplifier power supply into the coaxial cable.

AA150M

This is the "marine version" and consists of just the antenna and coax. It is intended that this is powered directly from a modified HF150 receiver. For use with a standard HF150 or any other receiver. The DC30 adaptor will be required and a suitable mains power supply delivering 12V.




Low Price AA150 £175.00 

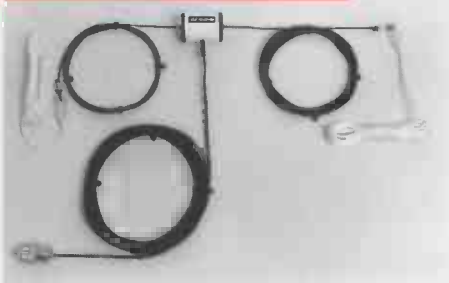
Low Price AA150M £119.00 

RF Systems Shortwave antennas

Mini-Windom

The Mini-Windom is just 4m long and is another compact solution for short wave listeners with limited space and being fully sealed can be used outdoors as well as indoors. Complete with coaxial downlead, ready to use.

Low Price £33.00 



SP1 Antenna

Splitter-Combiner

The SP1 can be used to combine two antennas feeding one receiver or allow two receivers to be used with one antenna. There is a high degree of isolation between the ports to make this possible without the receivers interacting.

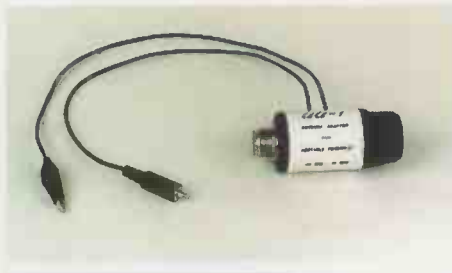


SP1 £65.00 Carr 

AA1 Antenna

Adapter

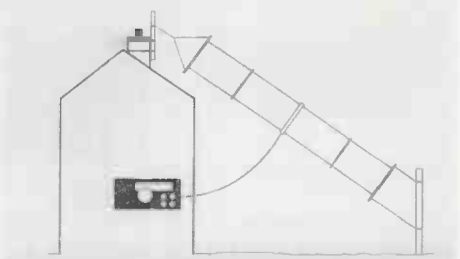
The AA1 allows large antennas to be connected to portable receivers. There is a built-in attenuator which allows control over the incoming signal and helps to prevent overload. Connects to the receiver's telescopic antenna and earphone socket for easy operation.



AA1 £42.95 Carr 

T2FD

The Tilted Terminated Folded Dipole is a proven low-noise design that has been around for many years. It gives an excellent signal to noise ratio, even in urban environments and offers an excellent bandwidth of approx. 3 to 30MHz. The T2FD is supplied fully assembled "ready to hang" but installation at the correct angle of 30 degrees is critical to its operation - you will therefore need some height. The overall length of the antenna is just 15m and just needs coaxial cable to your receiver to complete installation.



T2FD £175.00 

SP2 Antenna

Splitter


The SP2 can also feed two receivers but can also be connected to two antennas for maximum flexibility. There is a switchable medium wave filter that can help reduce breakthrough of MW signals into the short wave bands and a precision stepped attenuator to reduce very strong signals to a more useable level.



SP2 £125.00 Carr C or D

AA2 Magnetic Field Antenna Coupler

The AA2 can be connected to any antenna and placed close to a radio with ferrite rod aerial, will allow signals to be passed from the external antenna to the receiver. Ideal for improving performance on long and medium wave. No direct connection required.


Low Price £42.95 

Magnetic Transfer Antenna

For locations where you simply haven't enough garden space for a long wire antenna, the MTA is a good alternative. Basically it is a fibreglass tube with a helical wire element inside producing an omnidirectional pattern and the polarisation is "elliptical", reacting to both horizontal and vertical signals. The antenna is a passive one and there are no radials so installation is quick and easy. The overall length is 2m and it is just 32mm diameter.

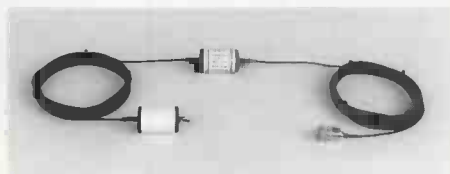
The MTA has a frequency range of 500kHz to 30MHz and is suitable for most applications; The GMDSS is intended for marine use having a frequency range of 100kHz to 25MHz.

MTA £175.00 Carr 

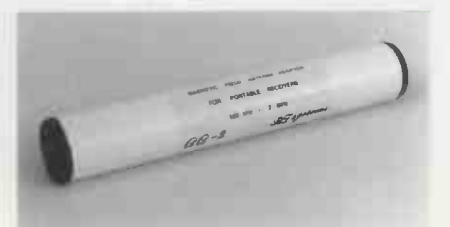
GMDSS £175.00 Carr 

EMF Antenna

The Electro Magnetic Field Antenna is a low cost high quality passive antenna system. It is only 5m long and is complete with 5m of coaxial cable, which doubles as a counterpoise for the antenna. Received signals are transferred to the receiver by means of a magnetic field. The EMF can be used indoors and makes an excellent portable antenna for use whilst travelling. Use with the AA1 and AA2 for increased versatility.



EMF £65.00 Carr 



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TO ORDER CALL 01629 580800

HIGH PERFORMANCE MW AIR CORE LOOP ANTENNA

Winner of the 93/94 WRTH World Radio
TV Handbook Award

The Kiwa MW Air-Core Loop Antenna provides the radio enthusiast with a unique antenna for improved AM broadcast band reception and DX'ing. The unique design of the construction and electronics includes the following high performance features:

- The antenna tunes from 530 to 1700 kHz using a main and fine tuning control. The control surface is separate from the antenna to facilitate adjustments
- Electronically balanced circuitry minimizes pickup of electrical interference
- The antenna may be rotated for maximum signal pickup
- The antenna "tilt" control includes 3 to 1 gear reduction for precise nulling of local signals and interference
- The antenna "tilt" control can be adjusted to $\pm 90^\circ$ from vertical. The amount of tilt can be directly in degrees ($^\circ$)
- The Local/DX pre-amp switch provides attenuation of strong signals in the "Local" position while increasing the bandwidth for improved fidelity
- A variable output attenuator provides complete control of the signal input to the receiver
- Dual output amplifiers provide signal drive for two receivers simultaneously
- A liquid filled compass provides bearing measurements of signals
- The antenna may be powered by a low noise AC supply which is included, or by battery
- The unique 12 inch circular air core design provides improved weak signal reception



Low Price **£349.95** 

HOWES CTU8 RECEIVING TYPE ATU

An easy to use unit for antenna matching on the medium and short-wave bands. For use with all popular general coverage receivers and scanners with HF coverage. Covers medium wave as well as all short-wave bands: 500kHz to 30 MHz.

Dual capacitor "T" matching network gives effective additional front end filtering for the receiver. Its job is to convert the feed impedance of an antenna to that of the receiver, and so provide an impedance "match". This will give stronger signal strengths at the tuned frequency, and also a reduction in signal levels at frequencies away from this.

CTU8 £49.90 



GLOBAL AT2000

Now you can tune your antenna and adjust the Q of your tuner to four different levels. The lowest Q is best for daylight use when conditions are normal. The sharpest is ideal for night use when signals are strong and the noise level is high. It adds selectivity to the receiver front end to improve performance.



AT2000 £99.95 

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TO ORDER CALL 01629 580800

ANC4 ANTENNA NOISE CANCELLER

Cancels locally-generated noise, from power lines, computers, TVs, and other electrical equipment.



Automatic BYPASS

- Handles 150W through RF for use with transceivers
- Operates at Receiver RF Input
- Eliminates Noise Before it Enters Receiver.
- May Be Used As An Active Antenna

The ANC4 is an RF device designed to provide cancellation of locally-generated noise from signals received by a primary antenna. The unit is employed right at the antenna connector of the receiver or transceiver to cancel locally generated noise, such as power line noise, computer or TV noise, noise from close by electrical equipment or machinery, BEFORE it gets into the receiver AGC circuits. This will allow reception of signals well below the noise level induced by the local interference.

To cancel locally generated interference, the interference signal must be detected and its phase and magnitude adjusted so that it matches the offending interference, but is 180 degrees out of phase, effectively cancelling the interference. This scheme is particularly effective at reducing local power line noise or other locally generated noise types.

This unit may be used with any receiver or transceiver with RF power output of 150 Watts PEP or less. An RF detector built into the unit automatically bypasses the network whenever transmit RF is detected. The unit is NOT designed to be used at the output of a high power linear power amplifier, but must be installed at the lower RF level of the transceiver, if transmitting is anticipated.

Controls are provided on the front panel to allow adjustment of both the phase and magnitude of the local interference, providing extremely deep cancellation of the offending interference. The unit connects between the main station antenna and the receiver antenna connector.

The unit requires 12VDC @ 300 mA. Operating Frequency Range: 100 kHz to 30 MHz Signal Loss. Main Antenna to Radio: 3 dB RF Input Level, Main Antenna: 3 V RMS maximum Max. Transmit RF Power through Unit: 150 W PEP or Ave. Time to Switch to BYPASS When Transmit RF is Detected: 10 milliseconds Time to Return to Receive Mode: 1.5 Sec (hang time) When RF is Not Present Typical Local Noise Types: Power Line Noise, Computer/TV Noise Electrical Equipment Noise, etc. Noise Cancellation: Typically 40dB or better. Front Panel: POWER switch, POWER LED, PHASE RANGE switch, NOISE GAIN Control. Rear Panel: Power Input, Noise Antenna Input, Main Antenna Input, Radio Output Input Power: + 11 VDC to + 16 VDC @ 300 mA reverse polarity protected. Size: 1.7"W x 4.3"D (4.3cm X 15.2cm x 10.9cm) Weight: 2 pounds (.91 kg) Temperature Ranges: Operating -20degrees C to + 55 degrees C. Storage 40 degrees C to + 85 degrees C Humidity: Up to 95% @ + 55 degrees C.

Low Price **£189.00**

NTR1

Wide band noise and tone remover.



- Provides wide band operation for AM or FM
- Narrow band operation for SSB, CW or Data reception
- State-of-the-art Digital Signal Processing in real time
- Reduces atmospheric noise through Dynamic Peaking
- Rapidly removes multiple tones from voice signals
- Operates on receiver audio output
- Built-in audio power amplifier
- Very affordable!

The NTR1 is a general purpose audio processing unit designed specifically to provide noise reduction and multiple tone removal for AM/FM or other wideband signals. The unit used Digital Signal Processing (DSP) to provide superior operating characteristics to those attainable using analogue techniques.

Both WIDE (approx. 6.8kHz) and NARROW (approx. 3.4kHz) audio bandwidths are provided to give optimum performance for AM or FM signals, as well as SSB, CW or data. The desired bandwidth is front panel selectable via a pushbutton switch. In the WIDE bandwidth position, NOISE REDUCTION and NOTCH characteristics have been tailored for the smoothest operation on AM and FM broadcasts. In the NARROW bandwidth position, NOISE REDUCTION and NOTCH characteristics have been tailored for the smoothest operation on SSB, CW or data broadcasts.

Four pushbuttons are provided on the front panel to make the operation as simple as possible. The switches provide Power On/Off, Noise Reduction On/Off, Notch On/Off and Bandwidth Wide/Narrow. All functions are independent and can be used separately or together. Whenever a function is engaged, a companion LED is illuminated.

The unit connects between the user's receiver speaker output and an extension speaker or headphones, so no modification to the receiver is needed. It takes the audio from the receiver and converts it into a digital bit stream, processes it and turns it back into an analogue signal. All of this is done in real time, so there is virtually no delay between input and output audio.

The NOTCH mode in the NTR1 may be used at any time to remove tones, whistles or heterodynes from the received signal. This is particularly useful when adjacent channel carriers are present or when CW or RTTY tones interfere with desired speech reception. This mode operates so rapidly that in most cases the user will never hear an offending carrier, or tune-up! You'll know about it when you hear other stations on the net complaining about the noise! When receiving CW or RTTY signals, the notch must be disengaged or nothing but key clicks will be heard!

The NOISE REDUCTION mode is known as "Dynamic Peaking", and works by forming dynamic bandpass filters around any coherent frequencies appearing within the audio passband such as the fundamental and harmonic frequencies of speech, CW tones, RTTY MARK and SPACE tones etc. These dynamic filters reject the non-coherent frequencies of white noise and other similar noise types. Therefore it can actually be used to accentuate or peak CW or RTTY signals, as well as eliminate white noise from them.

The NTR1 requires 12V DC @ 800mA peak.

Low Price **£139.00**

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TO ORDER CALL 01629 580800

NIR12 Professional Dual DSP Noise and Interference Reduction Unit

Superior noise reduction on audio signals.



- Atmospheric white noise
- Automobile ignition noise
- Power line noise
- Static
- Computer/TV interference
- Digs out weak, difficult to read signals
- Greatly reduces listener fatigue.
- Both Spectral Subtraction and Dynamic Peaking Noise Reduction provided.
- Manual and automatic NIR control
- Operates on audio from any radio receiver
- Dual Digital Signal Processors.
- All modes useable simultaneously
- Notch filter removes all tones from voice signals including CW and RTTY
- Operates in less than 5m sec
- Access to the dual DSPs via RS-232 for experimenters.
- Super FIR filters provide fully adjustable Bandwidth and Centre Frequency, with "Real Time" operation, very steep skirts and greater than 60dB ultimate rejection
- Linear phase and minimum passband ripple
- Useable as Bandpass, Lowpass or Highpass Filters

The NIR12 is an advanced audio signal processor designed to provide the user with maximum flexibility of interference from voice, CW and data transmissions. The unit uses DUAL Digital Signal Processors (DSP) to provide simultaneous bandpass operation, noise reduction and multiple tone/heterodyne removal. The spectral notch filter provides cancellation of multiple heterodynes from tune-ups adjacent carriers, CW RTTY, or similar signals without interfering with voice signals when a voice band-width has been selected. The Notch filter operates in 5 milliseconds or less. A multi layer printed circuit board provides superior shielding to virtually eliminate RF radiation from the DSP data bus. Two methods of noise reduction are provided in the NIR12. Improved spectral Subtraction (NIR) and Improved Dynamic Peaking to give the operator the best audio noise reduction possible.

The improved NIR (Spectral Subtraction) mode of noise reduction automatically enhances signals by recognising the speech, CW or data components, and then reducing the amplitude of all other signals which are not part of the desired information. The amount of noise reduction in this mode is continuously variable from zero to maximum using a front panel control. A fully automatic noise level reduction is provided when the control is turned fully CW. The proper noise reduction level is dynamically adjusted based upon the measured Signal-to-Noise Ratio of the received signal.

The dynamic Peaking noise reduction which is quite effective at reducing white noise and other similar noise types, now incorporates a PEAK FACTOR switch to give the user several different noise reduction characteristics. This function may be changed at any time by the operator to provide the smoothest sounding audio characteristic for the existing conditions.

Low Price **£399.00** 

Klingenfuss

Super Frequency List on CD-ROM

Joerge Klingenfuss has been a professional radio monitor for many, many years and is well known for his range of frequency guides, concentrating on utility stations and decoding data. Always keeping up to date, Klingenfuss has compiled a number of publications onto this CD-ROM thus allowing you to get the low-down on frequencies and stations amazingly quickly using a Windows-based PC. The listing covers clandestine, domestic and international short wave broadcasting schedules and the most up to date utility frequency list.

You can search on frequency, station name, mode or any text string for added versatility. You can even search for stations known to be transmitting at a given time! There are powerful SQL searches behind an amazingly simple user interface. And it is really fast. Stations are found in less time than it takes to turn a page in a frequency guide!

It's an ideal companion to our RCON receiver control program which allows you to search the Klingenfuss databases and transfer the frequency data to your receiver for instant tuning. If you have a computer running Windows 3.X or Windows 95 and a CD-ROM drive, this should be YOUR frequency guide.

Low Price **£29.95**

Short Wave Eavesdropper CD-ROM

The Short Wave Eavesdropper CD-ROM provides you with a giant frequency list containing over 32,000 frequencies. Full search facilities are provided, allowing you fast access to a large amount of data stored about each station. Searches can be refined to mode, frequency station name etc. You can even add country or callsign details to narrow down the search parameters.

The operating software controlling the database even lets you store your favourite searches for fast retrieval of information you find you use frequently. Once you've identified a station, you can double-click on the user column and gain access to a file containing schedules, QSL addresses, maps and much, much more. Also included in Eavesdroppers enormous database is a callsign list with over 42,000 ITU, military, merchant marine and diplomatic callsigns. There's also a TELEX directory giving information on codes and stations using the many TELEX modes available. It even has aircraft Selcals too. There is even a converter on the CD-ROM to allow you to convert Arab teleprinter alphabets into phonetic English!

An excellent product for the computerised short wave listener that we can highly recommend.

Low Price **£19.50**

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TO ORDER CALL 01629 580800

The **NEW** JRC NRD545 *with DSP!*



Lowe are pleased to announce the UK release of the brand new JRC NRD545 DSP receiver. Renowned for quality, this JRC receiver is amongst the best with outstanding features:

- 100kHz-30MHz (will receive under 100kHz but is outside the guaranteed specification)
- One chip DSP processing for all modes
- LSB/USB/CW/RTTY/FM/AM/ECSS (USB/LSB)
- Continuous IF filtering from 40hz to 10kHz with 10Hz step (no mechanical/crystal filters necessary)
- PBS
- Noise Reduction
- Beat Canceller
- Noise Blanker
- Notch Filter/Auto Tracking
- AGC (off/1/2/3/4) adjustable
- BFO
- Squelch
- Tone Control
- S-Meter
- 1000 Memory Channels
- Built-in RTTY Demodulator
- Clock & Timer
- 1Hz step and displays down to 10Hz
- Memory/Band Scan & Sweep
- RS232C
- 20 channels of weekly timer
- AM and FM stereo
- Step tuning 9kHz, 12.5kHz, 25kHz and others

Lowe Price £1595.00 

Modemaster v2.0

Modemaster will introduce you to the fascinating world of data communications - works with any good shortwave receiver with SSB

Lets you tune into:
 Current and forecast weather facsimile maps
 Weather forecast broadcasts in FEC, Morse, NAVTEX and Marine Navigation Warning Broadcasts

- Will operate on IBM PC compatible computers and printers.
- On screen indicator for precise receiver tuning.
- User editable data base of weather fax stations.
- Built in timer for automatic receipt of images and data.
- Scroll, zoom, store and print functions for weather fax images.
- Store and print functions for NAVTEX, Morse, RPP(and FEC transmissions.
- NAVTEX message category and station selection.
- Apply false colour to received images
- Computer control of Lowe HF150 receiver when used with optional IF150 interface.
- Dot matrix and laser printer support
- Image save to disk or printer.

Low Price £139.95 

Catalogue Pricing Information

All prices shown are inclusive of VAT unless specified. Carriage is additional according to the code shown to the right of each price as follows:

- A** = £1.00 **B** = £3.00
- C** = £5.00 **D** = £10.00

Applies to UK Mainland only

SYNOP

SYNOP provides maps and text listings of up to date weather information from shortwave weather radio stations

Cloud cover	Wind direction
Temperature	Weather conditions
Wind speed	Sea state
Pressure	Aircraft reports
Rainfall	
Dewpoint	

Low SYNOP is available in three versions allowing potential users to buy the best product to suit their other data monitoring activities.

SYNOP This is the complete system with all functions as described in the brochure. The package contains a demodulator, software and manual and only requires your HF ssb receiver and PC.

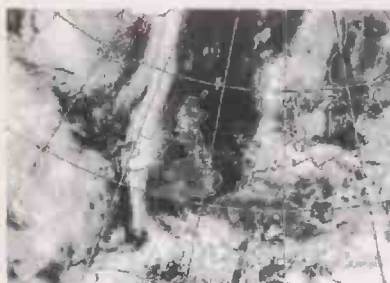
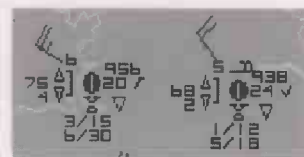
WXMASTER This is an add-on module for our popular MODEMASTER decoding package. This uses MODEMASTER's RTTY routines and demodulator to copy and decode the original transmission and save to a file. WXMASTER then uses this file to produce maps and data. The net result is that with WXMASTER the SYNOP decoding does not take place in real time. This is a relatively inexpensive way to add SYNOP capability to an existing MODEMASTER system without the need of an additional demodulator. WXMASTER contains software and a manual.

SYNOPKAM A large number of radio hams already use several forms to data transmission modes to communicate with each other on a world-wide basis using Kantronics' popular KAM and KAMPLUS TNCs. SYNOPKAM adds SYNOP decoding to these units, using their built-in RTTY functions. The KAM or KAMPLUS is used as the demodulator and the SYNOP decoding is carried out by the software provided. This system does allow real-time decoding and display of SYNOP plots. It is complete with software, manual and a software protection device which plugs into the PC's parallel port.

Features

Provides easily understood up to date graphic weather data . Will operate with any good quality HF SSB receiver. Will operate with any 286 or 386 processor IBM PC with EGA or VGA display. Text only with CGA and Hercules displays.

- On screen tuning indicator. Zoom facility.
- PCX file to output to paint programs.
- Dot matrix and Laserjet II printer support.
- Saves images to disk or printer.



Low Price £129.00 

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Some background information to help you...

PRODUCT RANGE

Rather than fill our catalogue and warehouse with everything we could possibly sell you, we are very selective, choosing only the very best products that are available. We use our unique experience and market knowledge, built up over thirty years, to weed out a lot of the poor quality and sub-standard items that are present in the market place. A lot of these items are still sold by a lot of our competitors in an effort to make you think that more is better. If you are a regular reader of the hobby radio press, you may notice that some well advertised products are not included in our listings. There are many reasons for this but the major one is that of back-up. If we cannot get service information and spare parts quickly from a distributor, how can we fulfil your warranty? We would rather not sell these goods on these terms - it is too big a risk to take with your money. It's a strange fact but the quality of a product and its distributor only becomes apparent when something goes wrong. In many cases, we can offer an alternative product that is probably much better and, more importantly has real back-up!

We are sought out by the world's finest manufacturers because of our reputation for customer support so you'll find that we are the UK importers and distributors for a wide range of equipment. It is very important for us to be able to continue to help you long after the sale so direct contact with manufacturers is essential to us. It enables the smooth flow of spare parts and technical back-up - the backbone of our famous service. To this end, we also have a number of contractors at home and abroad, custom manufacturing products to our own specifications. In addition to this our agents in Europe, the Far East and North America are always on the lookout for innovative new products for us to introduce into the UK. Thus when you make a purchase from Lowe, you can rest assured it has been quality tested and we can and will back it to the hilt.

PRICES

The prices were correct at the time of going to press (Errors and omissions excluded) and are provided for the main benefit of mail order customers. Many of these items are imported and prices are likely to fluctuate as exchange rates vary. We reserve the right to change prices accordingly, and without notice, subject to exchange rates and price changes forced upon us by our suppliers. Prices of items are also likely to change on a temporary basis during promotional activity by manufacturers, suppliers and ourselves. Prices shown include UK VAT where appropriate.

CARRIAGE

We use the Post Office for small items but as weight and value increases, we recommend a courier company to ensure a secure, speedy delivery. Carriage charges are shown against each item: A is £1.00, B is £3.00 and C is £5.00 and are items sent by Post. Remember it can take up to fourteen working days for parcels to arrive (Royal Mail terms and conditions). D is £10.00 and this for a "next working day" courier delivery service. This charge applies only to mainland UK addresses, for deliveries to Northern Ireland or islands, please ask for a quotation. We recommend this service, especially for the more expensive items as this offers better security than normal post and you do get your goods quicker! If you are ordering several items, we can of course consolidate the carriage charges.

HELP AND TECHNICAL ADVICE BEFORE YOU PURCHASE

Most of the questions you are likely to ask about our products can probably be answered by reading the information in this catalogue. If not, we will be pleased to help. Use our normal telephone number, **01629 580800** and ask for "Sales", quoting the type of equipment you need help with. We can then make sure you talk to a specialist about that product.

PLACING ORDERS

Although all our branches can deal with mail orders, our Head Office is better geared up for this as we keep the bulk of our stock here and have a dedicated staff to deal with it and better collection facilities.

ORDERING BY TELEPHONE

We have installed a Freephone number, **0800 174749**, so that customers who know exactly what they want will have their orders processed promptly. This line can be answered by anyone, anywhere in the building but we will be unable to transfer your call to other departments. Please have your credit card number and expiry date to hand. If you have a Switch card, we will also need to know the Issue Number and possibly the start date. Please quote the product code numbers from the catalogue wherever possible as this helps us enormously. We will also need your address and a daytime telephone number. If we have sold out of an item, we will call you back shortly and let you know. We regret that spare parts* cannot be ordered on this line. As almost any of our staff will be answering this line, they may not be able to help with technical information, or to give you guidance on choosing and using a product as they may not possess this information. If you need help before deciding, please ring our regular number, **01629 580800** and quote the product you wish to discuss and you will be put through to someone who does know!

*Spare parts we define as electronic components or parts needed for repairing equipment, rather than *accessories*, which are sold as options.

ORDERING BY FAX

Our fax machine is on-line 24-hours a day and we are happy to receive orders by this method. The number is **01629 580020**. Make sure you include your full name and address and a daytime telephone number as well as your fax number.

ORDERING BY E-MAIL

Our E-mail address is orders@lowe.co.uk and again we need you to include a full postal address and a daytime telephone number. If you are ordering from outside the UK please ensure your address contains the country you are in as this is not always obvious from your E-mail address! If you are not too happy about E-mailing your credit card number, can we suggest sending two e-mail messages, each with half the number.

PAYMENT

You can pay us any way you like - within reason! We take real cash in our branches or you can pay by cheque. If you want to pay by bank transfer, please ask for our bank details. We also take Visa, MasterCard and American Express credit cards. In addition we take most bank debit and switch cards. We are also licensed credit brokers and can offer a wide range of credit payment options. We don't normally bank your cheque or debit your card until we are ready to despatch but we may ask for a deposit or full payment for items we do not normally carry in stock. We try to keep a good range of equipment in stock in all our branches and if you intend to visit us to see a specific piece of equipment, please telephone first to ensure we have the item there, especially if you need to travel a fair distance. You can also confirm the latest price and local opening hours.

ALL LOWE PRICES INCLUDE VAT



TO ORDER CALL 01629 580800

DESPATCH

Orders received at our head office before 2.00pm are normally despatched on the same day - 3.00pm and we're stretching it a bit tight, especially if you are requiring any modifications or filters and other modules fitted to any equipment! If you don't get delivery when you expect it, please let us know and we can try and sort it out. This sort of problem is rare with the courier companies but does happen quite frequently with post - bear in mind the Royal Mail are handling several million individual items every day and sometimes delays are inevitable. If you want things in a hurry, use our courier service. For a lot of main items, it is only a few pounds more than postage and saves a lot of hassle! Deliveries on a Saturday however cost more than double! We do not accept orders on the basis that "time is the essence of the contract" as delivery times are totally out of our control. Do make sure we have both a work and home telephone number, especially if you live off the beaten track. It is useful for the local driver to be able to contact you in the event of difficulties.

In the event of a non-delivery, please telephone and ask for our DESPATCH DEPARTMENT who will do their best to resolve your problem. Nearly 99% of non-deliveries happen because someone "nips out for ten minutes" - delivery drivers do have other deliveries and are usually working under pressure. It may not be possible for them to return later. In this event, they will normally leave a card letting you know how to contact their local office to arrange an alternative time. Just stay calm and let us sort out the problem! If you receive the wrong goods (and we are but human!) or if they are damaged in transit, please let us know as soon as possible. If goods are damaged, we need to know immediately by telephone and IN WRITING within 48 hours of delivery.

ADVICE AFTER THE SALE

If you need help operating your equipment or you are looking for accessories, ring 01629 580800 and ask for SALES, quoting the product you need to discuss. Generally speaking, when it comes to operational problems, the first thing you should do is to read the operator manual - most of the answers are in there! We cannot stress how important this is. Modern equipment has more microprocessor control than older items and simply cannot be used correctly without reference to the manual, no matter how experienced you are!

IF IT DOESN'T WORK....

Today's equipment is really pretty reliable but if things do go wrong you'll be glad you bought it from us! We actually have more engineers than sales people and pride ourselves on the level of support we can give you. But...

It has been our experience in recent times that many initial problems are not usually faults as such but in the users urge to get the radio working, sometime the instructions are not read as fully as they should be and we make no apologies for repeating that fact that you really should read and understand the manual. It is so easy to press the wrong button at the wrong time and totally confuse the radio as well as yourself! Most radios have a reset procedure that will get you back to the factory default where you can start again. This is the first thing you should try in the event of a problem BEFORE contacting ourselves. In the first instance, you should ask for SALES, quoting the equipment type. If necessary, we can then pass you to someone familiar with the equipment in order to eliminate operator error.

If you think you have a genuine fault, please contact our SERVICE DEPARTMENT. They now have their own dedicated telephone line on 01629 584983 and are no longer part of our main switchboard. Diagnosing a problem by telephone is almost impossible as many different fault conditions can show the same symptoms. Our engineers will be able to tell you if button pressing can get you out of trouble or if you need to return the set to us. In most cases, it will be pretty obvious!

SERVICE UNDER WARRANTY

Warranty repairs are normally carried out within a week. We honour warranties as laid down by the various manufacturers we represent, all backed up by our own workshops. You also need to keep your receipt as this is your only proof of warranty. If you need repairs carried out under warranty, we will need to see a copy of your receipt or a charge will be made. The onus of providing proof of warranty rests with you. Please note that in most cases, dial lamps and devices used in PA stages in amateur equipment are not covered by warranty. From time to time warranty periods may vary in line with promotional activity from both ourselves and manufacturers. The normal warranty period for new items is one year. If an extended warranty is offered, this will normally be shown on the manufacturer's warranty card or if we are offering an extended warranty ourselves, this will be shown on your receipt. We are not able to carry out warranty repairs on equipment not purchased from ourselves.

SERVICE OUT OF WARRANTY

Our workshops provide an excellent back up service and are probably the busiest in the country and our facilities and back-up spares stock are the envy of most other dealers - many of whom do not actually have workshop facilities or engineers on-site. (If you don't believe this - go and ask to see their workshops and actually talk to an engineer!) It is not unusual for us to have a backlog of several weeks worth of non-warranty repairs due to the reputation of our service department.

All non-warranty repairs are done in the order in which we receive them, in order to be fair to everyone. Please contact our workshop before sending equipment in so we know what to expect. If you are sending items to us by post or other method, we will acknowledge receipt and inform you of the likely delay period by post. Please, please, please do not telephone our service department just to enquire about progress unless it is absolutely necessary. Every phone call delays the repair of your equipment.

RETURNED GOODS

If you are not sure if you will find a piece of equipment suitable for your needs, please visit one of our branches where you will be able to examine it and usually "try before you buy". We will accept goods back, provided that authorisation is obtained from our sales department and that the goods are returned within seven days, in first class condition as supplied, and adequately packed for return. In this event, all carriage and insurance charges are borne by the customer. If you do wish to return goods, we reserve the right to make a re-stocking charge of up to 20% of the purchase price. This is to allow for the fact that we cannot legally sell the item as new. I'm sure that you would not wish to purchase an item, only to find it may have had several "owners" previously! We know this happens with other dealers - we are simply being honest. We will not accept returns of antennas of any type or software products under any circumstances. We will also not be able to accept returns of products we have to order specially.

SECOND HAND EQUIPMENT

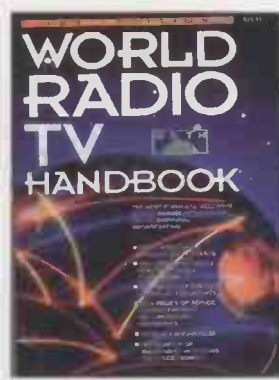
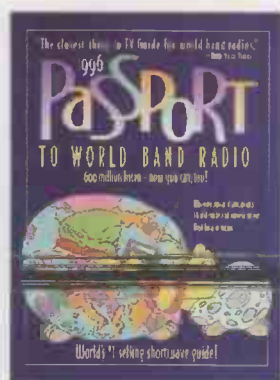
As a service to customers, we offer trade-in facilities and always have a range of fully tested second hand equipment available. We do publish a list every week but this quickly goes out of date, even though it is updated weekly! It is a composite of stock in all our branches. If you want to purchase an item of second hand equipment, contact the branch where the item is located. If there is a particular piece of equipment you are looking for, please let us know and we can look out for it for you. Warranty with second-hand equipment is normally three months but this can be extended on certain items at additional cost.

The foregoing constitutes our main terms and condition of business, however, we are not the sort of company that hides behind its own rules, or consumer law for that matter. If you do have a genuine problem, we will be more than happy to help you sort it out.

ALL LOWE PRICES INCLUDE VAT

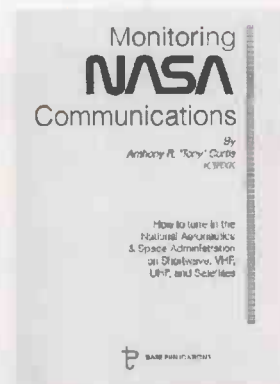
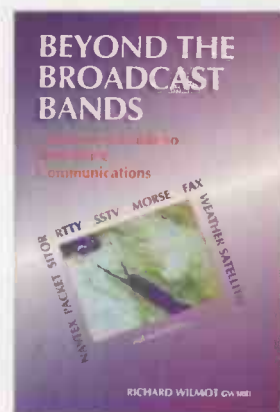
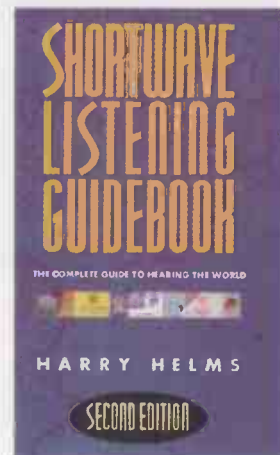


TO ORDER CALL 01629 580800



SHORTWAVE
BOOKS
BOOKS
BOOKS

Publisher	ProductCode	Description	RRP	Carr
Addison Wesley	UKINTER	UK Internet	£19.95	B
Billboard	WRTH97	World Radio and TV Handbook 1997	£19.95	B
CQ	SWPH	Short Wave Propagation Handbook	£15.95	B
Hightext	PIRATE	Pirate Radio includes audio CD	£16.95	B
Hightext	RAHB	Receiving Antenna Handbook	£17.50	B
Hightext	SLG	Shortwave Listening Guidebook - Harry Helms	£16.95	B
Hightext	UFG	Underground Frequency List	£14.95	B
Interproducts	EOTBM	Eavesdropping on the British Military	£17.50	B
Interproducts	FRWX	Fax and RTTY Weather Reports by Philip Mitchell	£8.95	B
Interproducts	SMB	Scanning the Maritime Bands	£9.50	B
Interproducts	SMCOMMS	Shortwave Maritime Communications	£14.50	B
Interproducts	WRFRS	Weather Reports from Radio Sources by Philip Mitchell	£6.00	B
Klingenfuss	AMCM	Klingenfuss Air & Meteo Code manual	£17.50	B
Klingenfuss	KGURS15	Klingenfuss Guide to Utility Radio Stations 15th Ed	£29.95	B
Klingenfuss	KGWS16	Klingenfuss Guide to Worldwide Weatherfax Services	£24.95	B
Klingenfuss	KIRG1	Klingenfuss Internet Radio Guide	£19.95	B
Klingenfuss	KRDCM15	Klingenfuss Radio Data Code Manual 15th Edition	£29.95	B
Klingenfuss	KSWFG1	Klingenfuss Short Wave Frequency Guide 1st Ed	£20.95	B
Official	MFD	Maritime Frequency Directory	£22.95	C
PhotAvia Press	AW97	Airwaves '97; HF VHF UHF airband frequency guide	£8.95	A
PW Publishing	FCFG	Ferrell's Confidential Frequency Guide	£19.95	B
PW Publishing	OOTA	More Out of Thin Air	£6.95	B
PW Publishing	SWC	Short Wave Communications by Peter Rouse	£8.95	A
RDI	PWBR97	Passport to World Band Radio; 1997 Edition	£14.99	B
Roach T	COMINT	Hobbyist's Guide to COMINT Collection & Analysis	£19.95	A
Spa Publications	MUFG	Marine Frequency Guide HF/ VHF; Spa Publications	£4.99	B
Spa Publications	SWIFH	Short Wave International Frequency Handbook	£12.95	B
TAB	CSWLH4	Complete SW Listener's Handbook - Bennett Hardy Yoder	£16.95	B
TAB	SRLFB	Shortwave Radio Listening for Beginners - Anita McCormick	£10.95	B
TAB	SWLQA	Short Wave Listeners Q & A Book	£9.95	B
Technical Software	BTBB	Beyond the Broadcast Bands - by Richard Wilmot	£12.95	B
Tiare	NASA	Monitoring NASA Communications	£14.95	B
Tiare	WR	Weather Radio - Tony Curtis	£14.95	B
Universal	MCC	Inside the MCC - RH Nicholson	£9.95	B
Universal	WAC	Worldwide Aeronautical Communications Frequency Guide	£19.95	B
Z-MISC	GIRB	Guide to International Radio Broadcasters	£5.25	A
Z-MISC	SWRL	Short Wave Listeners Handbook	£7.99	B



ALL LOWE PRICES INCLUDE VAT



TO ORDER CALL 01629 580800

JRC JST-245

"Good solid radio with good solid performance. Easy to use with all the important features well implemented"*



HF Band Plus 50MHz Band. The JST-245 covers the 1.9MHz band plus the 50MHz band, and operates in all the modes including SSB, CW, AM (A3H), AFSK and FM

Large Colour LCD Display

The front panel features ergonomic design with thoughtful placement of controls for ease of operation and with an easy-to-read, large colour LCD display with a high resolution 41-dot digital bar metre. Built-in AC Power Supply

The built in AC Power supply is of switching type designed for continuous transmission at maximum output. It is switchable between 85-135V and 170-264V.

Multiple Antenna Selection

Three antenna connections are selectable from the front panel. Antenna selection and frequency band information can be stored in memory.

Stable Frequency Control

All local reference frequencies are generated by a single crystal oscillator and stable frequency control in the minimum 2Hz increments is made by a JRC unique Direct Digital Synthesiser (DDS IC) at a high speed with very low phase noise, ensuring superior frequency stability

Band Memory

Each band memory can store frequency, mode, IF Bandwidth, AGC, and antennas in use, ensuring swift reset to the final operational status in each band in QSY.

200 Channel Memory

A memory capacity of 200 channels is provided to store frequency, mode, filter, AGC, antenna in use, split, tone, SQ RF AMP ON/OFF etc.

Other Standard functions are provided including VFO with equaliser, full break-in, electronics keyer, all-mode squelch, VOX and RF speech compressor.

**All-mode
150W HF plus
Six metre
transceiver
including
built-in
mains
PSU and Auto
Tuner**

- 1) LCD Colour Display
- 2) A VFO Key
- 3) BVFO Key
- 4) A=B Key
- 5) SPLIT Key
- 6) Down Key
- 7) 1MHz Key
- 8) TF/RF Key
- 9) M→VFO Key
- 10) Main Tuning Control
- 11) Up Key
- 12) MEMORY Key
- 13) Scan Key
- 14) STEP/Changeover Key
- 15) BAND/Numerical Keys
- 16) Function Key
- 17) CLEAR Key
- 18) MHz Key
- 19) ENTER/kHz Key
- 20) RIT Key
- 21) CLEAR Key
- 22) XIT Key
- 23) RIT/XIT Control
- 24) AF/RF Gain Control
- 25) PBS/BWC Control
- 26) MEMORY Control
- 27) SQUELCH-SELECT key
- 28) LOCK key
- 29) TUNER THRU key
- 30) TUNER TUNE key
- 31) USB/LSB Key
- 32) CW/FSK Key
- 33) FM/AM Key
- 34) MicGain/Power Control
- 35) COMPRESSOR/TONE Control
- 36) COMPRESSOR Switch
- 37) NOTCH TRACKING/SQUELCH Control
- 38) VOX/DELAY Control
- 39) NOTCH TRACKING Key
- 40) VOXKey
- 41) NoiseBlanker/ PITCH Control
- 42) MONITOR/SPEED Control
- 43) Noise Blanker Key
- 44) MONITOR Key
- 45) SHIFT/REVERSE Key
- 46) ACG Key
- 47) Full Break-in/PAGER Key
- 48) Headphones Jack
- 49) Mic Connector
- 50) Speaker (Upper)
- 51) METER Changeover Key
- 52) RF Attenuator Switch
- 53) RF AMP On/Off Switch
- 54) FILTER Changeover Keys
- 55) POWER Key
- 56) TRANSMIT Key
- 57) ANTENNA Changeover Keys
- 58) Carrying Handle

*Peter Hart - RadCom October 1997 - Review of the JRC JST-245

Low Price **£2,295.00** 

ALL LOWE PRICES INCLUDE VAT



TO ORDER CALL 01629 580800

First of a new breed of Digital HF Transceivers

TS870S



Frequency range
 Receive: 100kHz - 30 MHz
 Transmit: All HF bands between 1.8 and 29.70MHz
 Modes: SSB, CW, AM, FM, RTTY
 Output power: 5-100 watts (SSB, CW, RTTY, FM), 5-50 watts (AM)

Features:
 Slope pass band tuning
 CW Reverse mode
 Manual notch
 Auto notch (DSP)
 1 Hz tuning
 Two in band simultaneous receivers with separate tuning


Low Price £1799.00 

TS-50S



Frequency range
 Receive: 30kHz - 30MHz
 Transmit: All HF bands between 1.8 and 29.70MHz
 Modes: SSB, CW, AM, FM
 Output power: 10-100 watts SSB, CW, FM, 10-40 watts AM

Features:
 Optional FM, AM board
 Dual VFO's with split capability
 Band stacking
 30 memory channels
 10Hz resolution

Low Price £769.00 

TS-570D

16-bit DSP Signal Processing



Frequency range
 Receive: 30kHz - 30MHz
 Transmit: All HF bands between 1.8 and 29.70MHz
 Modes: SSB, CW, AM, FM
 Output power: 10-100 watts SSB, CW, FM, 10-40 watts AM
 Features:
 CW auto tune
 DSP AF noise reduction
 DSP transmit audio shaping
 Extensive memory features
 Scanning
 Personal computer RS232 interface via 9 pin D-Sub connection
 VOX

Low Price £1199.00 

TS-950SDX



Frequency range
 Receive: 100kHz - 30MHz
 Transmit: All HF bands between 1.8 and 29.70MHz
 Modes:
 SSB, CW, AM, FM, DATA (RTTY)
 Output power:
 5-150 watts (SSB, CW, RTTY, FM), 5-40 watts (AM)

Features:
 Power supply included
 Slope pass band tuning
 CW Reverse mode
 Manual notch
 1 Hz tuning
 Two in band, simultaneous receivers - separate tuning

RIT
 Digital filters can be on or off **Low Price £2999.00** 

KENWOOD HF ACCESSORIES

Code	Description	RRP	Carriage
AT230	Manual ATU with Antenna Switching/Power Meter	£269.95	D
AT300	External weather proof auto ATU for TS450/690/850	£449.95	D
AT450	Internal auto ATU for TS450S/690S	£149.95	D
T50	External auto ATU for TS50S	£319.95	D
AT850	Internal auto ATU for TS850S	£149.95	D
DRU2	Digital Speech Recording Unit for TS870S	£104.95	B
DRU3	Digital Speech Recording Unit for TS850S/950SDX	£99.95	B
DRU3A	Digital Speech Recording Unit for TS570D	£99.95	B
DSP100	Digital Signal Processor Unit for TS850/450/690	£534.95	D
HS5	Deluxe Headphones	£52.95	B
HS6	Small Headphones	£35.95	B
IF232C	RS232 Adaptor for all compatible models	£88.95	B
LF30A	HF Low Pass Filter 1kW Rating 50 ohm	£45.95	B
MB13	Mobile Mount for TS50S	£35.95	B
MB430	Mobile Mounting Cradle for TS430/140/680/450/690	£20.95	B
MC43S	Dynamic Hand Microphone with up/down; 8 pin plug	£26.95	B
MC47	Multi-Function Hand Microphone for TS50S	£42.95	B
MC60A	Dual Impedance Desk Microphone with internal preamplifier	£117.95	C
MC80	Electret Desk Microphone with Preamplifier	£72.95	C
MC85	Electret Desk Microphone with Preamplifier and Compressor	£139.95	C
MC90	Desk Microphone for DSP Transceivers	£187.95	C
MJ48	Microphone Plug Adaptor	£10.95	A
MJ64	Microphone Plug Adaptor	£10.95	A
MJ68	Microphone Plug Adaptor	£10.95	A
MJ84	Microphone Plug Adaptor	£10.95	A
MJ86	Microphone Plug Adaptor	£10.95	A
PG2X	DC Power Cable for TS850/450/690S	£19.95	B
PG2Y	DC Power cable for TS50S	£26.95	B
PG2Z	DC Power cable for TS870S	£19.95	B
PG4F	Microphone Cable for MC85	£19.95	A
PG4M	ATU Extension Control Cable for TS50S	£21.95	B
PS31	Mains Power Supply for TS790/850S (SSB use only)	£224.95	D
PS33	Mains Power Supply for TS450/690 (without AT300)	£245.95	D
PS52	Mains Power Supply for TS850 (full duty cycle)	£309.95	D
PS53	Mains Power Supply for TS450/690 (full duty cycle)	£319.95	D
RM1	Remote Function Keypad for TS850S	£38.95	A
SM230	Station Monitor and Spectrum Display Unit	£899.95	D
SO2	Ultra Stable Master Oscillator for TS950/850/450/690	£122.95	B
SP23	Station Loudspeaker for TS450/690	£68.95	C
SP31	Station Loudspeaker for TS850S/TS790E	£82.95	C
SP41	Mobile Loudspeaker suitable for all models	£24.95	A
SP50B	Larger Mobile Loudspeaker for all units	£27.95	B
SP950	Station Loudspeaker for TS950SDX	£106.95	C
TU8	CTCSS Encoder for TS690S/680S/450S/140S	£43.95	A
VS1	Speech Synthesizer for R5000	£45.95	A
VS2	Voice Synthesizer Unit for TS450S/690S/850S/950SDX	£45.95	A
VS3	Voice Synthesizer Unit for TS570D	£45.95	B
YG455C	500Hz CW Filter for R5000/TS440	£128.95	B
YG455C1	500Hz CW Filter for TS940/950/140/850/450/680/690	£138.95	B
YG455CN1	270Hz CW Filter for TS940/950/140/850/450/680/690	£159.95	B
YG455S1	2.4kHz SSB Filter for TS950	£133.95	B
YG88A	6kHz AM Filter	£61.95	B
YK107C	500Hz CW Filter for TS50S	£61.95	B
YK455C1	500Hz CW Filter for TS140/680/450/690	£67.95	B
YK88A1	6kHz AM Filter for TS940/950/R5000	£61.95	B
YK88C	500Hz CW Filter for TS440/R5000	£61.95	B
YK88C1	500Hz CW Filter for TS940/950/850/450/690	£61.95	B
YK88CN	270Hz CW Filter for TS440/R5000	£61.95	B
YK88CN1	270Hz CW Filter for TS940/950/850/450/690	£61.95	B
YK88S	2.4kHz SSB Filter for TS440/R5000	£57.95	B
YK88S1	2.4kHz SSB Filter for TS850/450/690	£61.95	B
YK88SN	1.8kHz SSB Filter for TS440/R5000	£61.95	B



MC-85
Multi-Function
Desktop Microphone



MC-60A
Deluxe Desktop
Microphone



SO-2
Superior Stability
TCXO (Temperature-
Compensated Crystal
Oscillator)



PG-2Z
DC Power Cable



SM-230
Station Monitor

ALL LOWE PRICES INCLUDE VAT



TO ORDER CALL 01629 580800

KENWOOD MOBILE

Kenwood TM-742E



Low Price
£759.00

Dual band FM mobile with option of adding a third band, of 10m, 6m or 23cm.

Output power: 50 watts on 2m and 35 watts on 70cm.

Key features: Detachable front panel, 101 memories, CTCSS encoder built-in, auto power off, auto band change, tone alert system, excellent display

Kenwood TM-251/451



Low Price TM251
£369.00

Low Price TM451
£399.00

Compact 2 metre (TM251) or 70cm (TM451) FM Mobile transceiver.

Output power: 50 watts

Features: automatic repeater shift, call channel, ten auto dial memories, 70cm/2m receive, CTCSS encode.

Kenwood TM-V7E



Low Price
£499.00

Dual band FM mobile with detachable front panel.

2m and 70cm bands with 50 watts on 2m and 35 watts on 70cm.

Key features:

Alpha numeric memory tagging

280 memories

Spectrum display

CTCSS as standard

On board memory system

Dual RX on same band

Packet connector

Kenwood TMG707E

The new Kenwood TMG707E is a budget version of the dual band TMV7E. It has a detachable front panel which means that you can remotely mount the main unit or just take the front with you when you leave the car. The high visibility orange display with automatic brightening can show up to seven large alpha numeric characters. Its 180 memory channels and memory naming function means you never forget which repeater you are working through. It has full band and programme scans, memory scan, Mhz scan and call scan and has full built in CTCSS encode and decode and comes with a 6 pin mini din connector for 1200 or 9600 bps packet.

The output power on 2m is 50 watts and on 70cms it is 35 watts.

Low price £439.00



KENWOOD MULTIMODE

Kenwood TS-790



VHF/UHF Multimode base station transceiver with 45 watts on 2m, 40 watts on 70cm and with the optional additional band, 10 watts on 23cm. Dual receivers allows simultaneous receive on any of the two bands. GaAs-FET front end and all mode.

Cross band full duplex

59 multi function memories

Dual digital VFOs for each band

Auto mode facility

Direct frequency entry

IF shift

Optional RS232 Control

Low Price £1699.00

Kenwood TM-255/455



Low Price TM255
£749.00

Low Price TM455
£799.00

VHF (TM-255) or UHF (TM-455) multimode base or mobile transceiver. 40 watts on 2m version or 35 watts on 70cm. High performance receiver.

100 memory channels

9600 baud compatible

Built in TXCO

Fuzzy logic

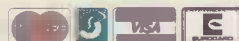
AIP circuitry

Data socket

Twin tuning dials

Remote head facility

ALL LOWE PRICES INCLUDE VAT



TO ORDER CALL 01629 580800

KENWOOD MOBILE ACCESSORIES

ProductCode	Description	RRP	Carriage
DFK3	Display/Controls Mounting Kit for TM742E	£16.95	A
DFK3B	Remote mounting kit; 3m; for TM733E	£31.95	B
DFK3C	Remote mounting kit for TMV7E 3m	£34.95	B
DFK4	Boot Mounting Kit for TM742E (4m)	£39.95	B
DFK4B	Remote mounting kit; 4m; inc mic cable; for TM733E	£52.95	B
DFK4C	Remote mounting kit for TMV7E 4m	£59.95	B
DFK7	Boot Mounting Kit for TM742E (7m)	£74.95	B
DFK7B	Remote mounting kit; 7m; inc mic cable; spkr cable; pwr cable	£84.95	B
DFK7C	Remote mounting kit for TMV7E 7m	£89.95	C
DRU1	Digital Speech Recorder For TM231/431/531E241/441E	£97.95	B
DTU2	DTMF Unit for TM241E/741E	£21.95	A
KQT8	CTCSS Unit for TH25/TM241E (was TSU6)	£32.95	B
MB10	Mobile mount for TR751E / 851E	£24.95	B
MB11	Mobile Mount for TW4100/TM721/731/741E	£21.95	B
MB12	Mobile Mount for TM221/421/ 231/431/241/441E/531/702/732	£14.95	B
MB14	Quick Release Mobile Mount for TM742E	£35.95	B
MB201	Mobile mount TM733E	£14.95	B
MC44DME	Electret Hand Microphone; up/down; DYMF keypad; 8 pin plug	£50.95	B
MC44E	Electret Hand Microphone; prog. functions	£37.95	B
MC45DM	Multifunction mic with DTMF	£49.95	B
MC45DME	Electret Hand Microphone with DTMF; for TM741E; 8 pin plug	£53.95	B
MC45E	Electret Hand Microphone; multi-function	£37.95	B
ME1	Memory Unit for TH28E/48E/78E	£24.95	A
MJ88	8 pin Mic to Telephone 8 pin Adaptor (for TM741E/732E)	£22.95	A
MJ89	Twin Modular Switch for TM742E	£49.95	B
PG2N	DC Power Cable for TR751/851/TM221/231/731/701/241/441/531/702/732/ 741/742	£9.95	B
PG4K	Boot Mounting Kit (4m)	£39.95	B
PG4L	Boot Mounting Kit (7m)	£74.95	B
PG5A	Data cable for TM251 / 451 / 551 / 255 / 455; radio to TNC	£11.95	B
SP41	Mobile Loudspeaker suitable for all models	£24.95	A
SP50B	Larger Mobile Loudspeaker for all units	£27.95	B
TSU7	CTCSS Unit for TH26E/28/48/78/27/47/77E	£35.95	A
TSU8	CTCSS Unit for TH22/42	£35.95	A
UT1200	23cm Transceiver Module for TM742E	£320.95	D
UT28S	10metre Transceiver Module for TM742E	£245.95	D
UT50S	6 metre Transceiver Module for TM742E	£245.95	D
VS1	Speech Synthesizer for R5000	£45.95	A
VS2	Voice Synthesizer Unit for TS450S/690S/850S/950SDX	£45.95	A
VS3	Voice Synthesizer Unit for TS570D	£45.95	B

KENWOOD STATION ACCESSORIES

ProductCode	Description	RRP	C
DFK3	Display/Controls Mounting Kit for TM742E	£16.95	A
DFK4	Boot Mounting Kit for TM742E (4m)	£39.95	B
DFK7A	Front panel kit for TM255E and TM455E; 7m long	£74.95	B
DRU1	Digital Speech Recorder For TM231/431/531E241/441E	£97.95	B
DTU2	DTMF Unit for TM241E/741E	£21.95	A
IF10D	Interface Unit for TS60S	£79.95	B
IF232C	RS232 Adaptor for all compatible models	£88.95	B
MB10	Mobile mount for TR751E / 851E	£24.95	B
MB11	Mobile Mount for TW4100/TM721/731/741E	£21.95	B
MB12	Mobile Mount for TM221/421/ 231/431/241/441E/531/702/732	£14.95	B
MB13	Mobile Mount for TS60S	£35.95	B
MB14	Quick Release Mobile Mount for TM742E	£35.95	B
MB201	Mobile mount TM733E	£14.95	B
MC43S	Dynamic Hand Microphone with up/down; 8 pin plug	£26.95	B
MC44DME	Electret Hand Microphone; up/down; DYMF keypad; 8 pin plug	£50.95	B
MC44E	Electret Hand Microphone; prog. functions	£37.95	B
MC45DM	Multifunction mic with DTMF	£49.95	C
MC45DME	Electret Hand Microphone with DTMF; for TM741E; 8 pin plug	£53.95	B
MC45E	Electret Hand Microphone; multi-function	£37.95	B
MC53DM	DTMF microphone for TMV7E	£49.95	C
MC60A	Dual Impedance Desk Microphone with internal preamplifier	£117.95	C
MC80	Electret Desk Microphone with Preamplifier	£72.95	C
MC85	Electret Desk Microphone with Preamplifier and Compressor	£139.95	C
ME1	Memory Unit for TH28E/48E/78E	£24.95	A
MJ88	8 pin Mic to Telephone 8 pin Adaptor (for TM741E/732E)	£22.95	A
MJ89	Twin Modular Switch for TM742E	£49.95	B
PG2N	DC Power Cable for TR751/851/TM221/231/731/701/241/441/531/702/732/ 741/742	£9.95	B
PG2X	DC Power Cable for TS850/450/690S	£19.95	B
PG2Y	DC Power cable for TS50S	£26.95	B
PG3B	DC Line noise filter	£13.95	B
PG3G	DC Line noise filter for TM255/455	£27.95	B
PG5A	Data cable for TM251 / 451 / 551 / 255 / 455; radio to TNC	£11.95	B
PS31	Mains Power Supply for TS790/850S (SSB use only)	£224.95	D
SO2	Ultra Stable Master Oscillator for TS950/850/450/690	£122.95	B
SP31	Station Loudspeaker for TS850S/TS790E	£82.95	C
SP41	Mobile Loudspeaker suitable for all models	£24.95	A
SP50B	Larger Mobile Loudspeaker for all units	£27.95	B
TSU7	CTCSS Unit for TH26E/28/48/78/27/47/77E	£35.95	A
TSU8	CTCSS Unit for TH22/42	£35.95	A
UT10	23cm Transceiver Module for TS790E	£534.95	D
VS2	Voice Synthesizer Unit for TS450S/690S/850S/950SDX	£45.95	A
YK107C	500Hz CW Filter for TS50S	£61.95	B

ALL LOWE PRICES INCLUDE VAT



TO ORDER CALL 01629 580800

KENWOOD HANDHELD

Kenwood TH-235

Rugged construction - this transceiver you can take anywhere

Frequency range:

Transmit and receive: 144-146 MHz

Modes: FM (F3E)

Output power: 5 watts high, 1.5 or 1 watt low

Features:

60 non-volatile memories


Built-in CTCSS tone encoder and optional decoder

DTSS selective calling

Powerful multi-scan facility

DTMF Function



Low Price £159.00 

Kenwood THG-71E

Kenwood FM Handheld - quality at a superb price

Frequency range:

Transmit: 144-146 MHz, 430-440MHz

Receive: As above. Dealer expandable to 118 to 174MHz, 400 to 470MHz wideband receive.

Modes: FM (F3E)

Output power: 6 watts VHF and 5.5 watts UHF

Features:

Illuminated keypad, backlit display

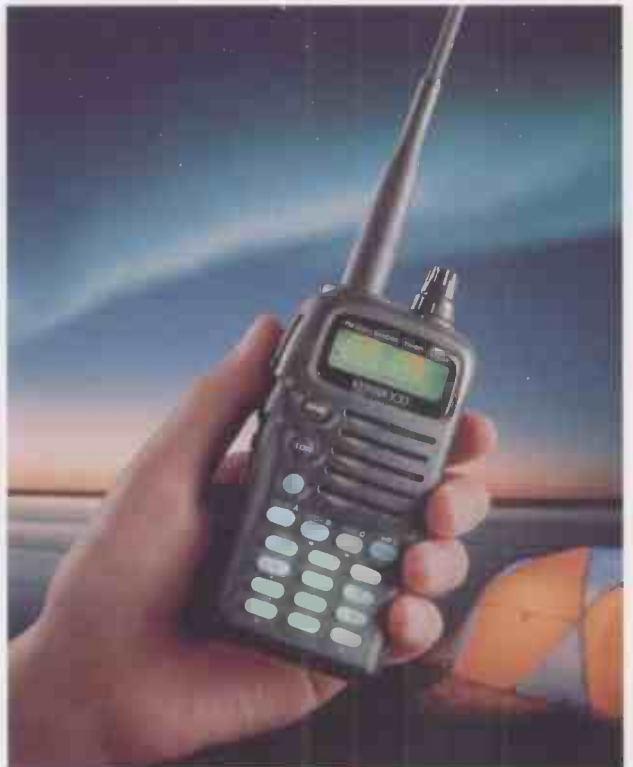
High power output

200 memory channels

Multiple scan functions

Memory naming

Built-in CTCSS encoder/decoder



Low Price 229.00 

ALL LOWE PRICES INCLUDE VAT



TO ORDER CALL 01629 580800

KENWOOD HANDHELD ACCESSORIES

Code	Description	RRP	Carr.	Code	Description	RRP	Carr.
BC15A	Rapid Charger for TH28/48/27/47E/78E	£94.95	B	PG2V	DC Power Cable for TH205/405/25/45/215/415/75E	£6.95	A
BC17	Wall charger for TH22/42	£16.95	B	PG2W	DC Power Cable for TH26/46/27/47/77E	£6.95	A
BC2	Battery charger for TH21/41/77	£11.95	A	SC14	Soft case for TH25/45 with PB5	£7.50	A
BC7	Fast charger for TH205/215/405/415	£99.00	C	SC15	Soft case for TH25/45 with PB6 or BT6	£7.50	A
BC8	Battery charger for TH205/215/405/415	£39.95	B	SC16	Soft case for TH25/45 with PB7 or 8	£8.95	A
BH6	Belt Hook for Handhelds	£29.95	A	SC23	Soft case for TH75 with PB7/8/9	£11.95	A
BT10	Dry cell case for TH235E	£14.95	A	SC24	Soft case for TH26/46 with PB5	£9.95	A
BT4	Dry cell case	£12.95	A	SC25	Soft case for TH26/46 with PB6 or 10	£10.95	A
BT5	Dry Battery Case for TH205/405/215/415	£13.95	A	SC26	Soft case for TH26/46 with PB7/8/11	£11.95	A
BT6	Dry cell case	£14.95	A	SC29	Soft case for TH77 with PB7 or 8	£14.95	A
BT7	Dry cell case	£7.95	A	SC30	Soft case for TH27/47	£12.95	A
BT8	Dry Battery Case for TH27/47 & T TH28/48; 4 X AA cells	£14.95	A	SC32	Soft case for TH27/47 with PB14	£13.50	A
BT9	Dry Battery Case for TH22/42; 4 X AA cells	£14.95	A	SC33	Soft Case for TH28E/48E with PB13	£15.95	A
DC4	12V Cigar Lighter Charger for PB10 Battery	£15.95	B	SC34	Soft Case for TH28E/48E with PB 17/18	£17.95	A
DTP1	DTMF Keypad for TH26/46E	£17.95	A	SC35	Soft Case for TH78E with PB13	£16.95	A
DTP2	Keypad for DTMF; memory; & frequency entry	£15.95	A	SC36	Soft Case for TH78E with PB17/18	£19.95	A
DTU1	DTMF Unit for TH26E	£19.95	A	SC37	Soft case for TH22/42 with PB30 & PB32	£14.95	A
EMC1	Clip Microphone with Earphone	£24.95	A	SC38	Soft case for TH22/42 with BT9	£14.95	A
HMC3	Headset/Boom Microphone with VOX	£50.95	B	SC39	Soft case for TH22/42 with PB33 & PB34	£14.95	A
KLF3	DC Power Cable for TH77E (was PG3F)	£17.95	A	SC40	Soft case for TH22/42 with shoulder strap	£15.95	A
KNB4	Nicad Pack 7.2V/1600mAh for TH205/405/215/415 (was PB4)	£70.95	B	SC41	Soft case for TH79 with PB30 or PB32	£15.95	A
KNB5	Nicad Pack 7.2V/800mAh for TH25/45/55/75/77E (was PB6)	£31.95	B	SC42	Soft case for TH79 with BT9	£15.95	A
KNB6	Nicad Pack 7.2V/1100mAh for TH25/45/55/75/77E (was PB7)	£48.95	B	SC43	Soft case for TH79 with PB33 or PB34	£15.95	A
KNB7	Nicad Pack 7.2V/600mAh for TH25/45/55/75/77E (was PB8)	£48.95	B				
KQT8	CTCSS Unit for TH25/TM241E (was TSU6)	£32.95	B				
KSC14	Rapid / trickle charger for TH22/42	£105.29	C				
KSC17	Standard charger	£27.03	C				
KSC7	Fast Charger for TH25/45/55/75/77/26/46 (was BC11)	£89.95	C				
KSC8	Drop in Battery Charger for TH25/45/55/75/ 77/26/46 (was BC10)	£21.36	B				
KVC1	12V Drop in Charger for PB 6/7/8. Requires DC Cord PG3F (was DC5)	£28.95	B				
KWR1	Waterproof Bag for Hand Portables (was WR1)	£19.95	A				
ME1	Memory Unit for TH28E/48E/78E	£24.95	A				
PB1	Nicad pack 12V/800mAh for TH205/405/215/415	£66.95	B				
PB10	Nicad pack 7.2V/600mAh for TH26/46/77	£25.95	B				
PB11	Nicad pack 6/12V 600/1200mAh for TH26/46/77	£49.95	B				
PB13	Nicad pack 7.2V/700mAh for TH27/47E	£37.95	B				
PB14	Nicad pack 12V/300mAh for TH27/47E	£71.95	B				
PB17	Nicad pack 12V/600mAh for TH28/48/78/27/47	£71.95	B				
PB18	Nicad pack 7.2V/1100mAh for TH28/48/78/27/47	£63.95	B				
PB21	Nicad pack 7.2V/180mAh for TH21/41	£28.95	B				
PB3	Nicad pack 7.2V/800mAh for TH205/404/215/415	£45.95	B				
PB30	Nicad pack; 4.8V/600mAh	£31.95	B				
PB32	Nicad pack; 6.0V/600mAh	£31.95	B				
PB33	Nicad pack; 6.0V/1200mAh	£45.95	B				
PB34	Nicad pack; 9.6V/600mAh	£48.95	B				
PB36	Nicad pack 7.2V 950mAh	£31.95	B				
PB37	Nicad pack 12V 950mAh	£45.95	B				
PB5	Nicad pack 7.2V/200mAh for TH25/45/55/75/77E	£31.95	B				

Low e Branches

All the items in catalogue are available from Lowe Electronics branches

Bristol & Wales

79 Gloucester Road, Patchway, Bristol BS12 5QJ,
Tel 0117 931 5263 Fax 0117 931 5270

North East

Unit 18B, Airport Industrial Estate, Newcastle, NE3
2EF, Tel 0191 214 5424, Fax 0191 214 0761

South West

117 Beaumont Road, St Judes, Plymouth PL4 9EF,
Tel 01752 257224 Fax 01752 257225

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TO ORDER CALL 01629 580800

IC-775/IC-775DSP



Frequency range

Receive: 100kHz - 29.990MHz
 Transmit: All HF bands between 1.8 and 29.70MHz
 Modes: SSB, CW, AM, FM, RTTY
 Output power: 5-200 watts (SSB, CW, RTTY, FM), 5-50 watts (AM)

Features:

Power supply included
 Twin pass band tuning
 CW Reverse mode
 Manual notch
 Auto notch (DSP version only)
 1 Hz tuning
 Dual watch (two in band simultaneous receivers)

Low Price £2795.00

IC-756



Frequency range

Receive: 100kHz - 29.990MHz
 Transmit: All HF bands between 1.8 and 29.7MHz plus 6 meters
 Modes: SSB, CW, AM, FM, RTTY
 Output power: 5-100 watts (SSB, CW, RTTY, FM), 5-50 watts (AM)

Features:

Twin pass band tuning
 CW Reverse mode
 Manual notch
 Auto notch (DSP version only)
 1 Hz tuning
 Dual watch (two in band simultaneous receivers)

Low Price £1995.00

IC-706 MkII



Frequency range

Receive: 30kHz - 200MHz
 Transmit: All HF bands between 1.8 and 29.70MHz, 6 meters, 2 meters
 Modes: SSB, CW, AM, FM, RTTY (FSK), WFM (receive only)
 Output power: 5-100 watts (All HF bands and 6 meters - SSB, CW, RTTY), 20 watts (2 meters - SSB, CW, FM)

Features:

Continuously receives 30kHz to 200MHz
 1 Hz tuning
 Optional antenna tuner for HF and 6 meters
 Dot matrix display with spectrum scope
 102 memories
 Built in electronic keyer
 IF shift

Low Price £1049.00

IC821H



Frequency range

Transmit and Receive: 144H/430MHz bands
 Modes: FM, CW, SSB, 9600 baud Packet

Features:

Dual band features, simultaneous receive on 2 bands
 Satellite memory channels
 Built in electronic keyer
 CW narrow mode
 Numerous scan functions

Low Price £1425.00

ALL LOWE PRICES INCLUDE VAT



TO ORDER CALL 01629 580800

ICOM IC-746

ICOM's latest HF/VHF transceiver, providing wideband coverage; HF to 144MHz

- 1.8MHz-144MHz multimode coverage
- 100 W output for all HF, 50MHz and 144MHz bands
- DSP fitted as standard
- Continually adjustable noise reduction
- Selectable APF with 3 passband widths
- Twin PBT, first in a mid range radio
- Auto notch filter
- Auto antenna tuner with preset memories
- Compact size 287 x 120 x 317 (mm)
- Memo pad with 10 channels
- Large, easy to read function display
- Tone squelch standard with 50 tone frequencies
- Ample CW functions with 4-channel memory keyer
- 12.5kHz FM narrow capability
- Quick split, ideal for DX'ers
- 3 different antenna connections
- 2-step pre-amp (single for 144MHz)
- Optional UT-102 voice synthesizer

NEW



Low Price **£1695.00**

HANDHELD & MOBILE

ICOM IC-T8E

The all new IC-T8E 6m, 2m & 70cms handheld transceiver.

- 5 Watts Output (Max)
- Switchable 25/12.5 kHz Filtering
- Wideband RX Coverage
- Nickel Hydride Battery Pack
- WFM for Broadcast Bands
- Auto AM on Airband
- CTCSS as Standard



NEW

Low Price **£349.00**

IC-W32E



- Frequency range
- Receive: 118 - 174MHz, 400 - 470MHz
- Transmit: 144 - 146MHz, 430 - 440MHz
- Modes: FM
- Output power: 5W, 0.5W, 15mW
- Features: Full cross band duplex, 6 memories

Low Price **£369.00**

IC-2350H



- Frequency range
- Receive: 118 - 174MHz, 400 - 470MHz
- Transmit: 144 - 146MHz, 430 - 440MHz
- Modes: FM
- Output power: 50W, 10W, 5W
- Features: Ultra high speed scans

Low Price **£459.00**

ALL LOWE PRICES INCLUDE VAT



TO ORDER CALL 01 629 580800

YAESU HF TRANSCEIVERS

FT-1000MP

Frequency range

Receive: 100kHz - 30MHz

Transmit: All HF bands between 1.8 and 29.70MHz

Modes:

SSB, CW, AM, FM, RTTY

Output power: Fully adjustable 5-100 watts (SSB, CW, RTTY, FM),
5-25 watts (AM)

Features:

Digital Signal Processing at receive and transmit

Clarifier tuning

Collins filters

Dual in band receive with separate S meters

Selectable antenna jacks

User programmable tuning steps

Extensive menu system allows customising

Built-in antenna tuner



Low Price **£2199.00**

FT-920

HF + 50MHz with 100W output, all bands

High performance 33 MIPS DSP (Digital Signal Processing) in all modes

Built in high speed ATU including 50Mhz (works on both Rx and Tx)

Auto notch/noise reduction control

Simplified tuning with Shuttle Jog Control

Digital voice memory system

Built in electronic memory keyer



Low Price **£1299.00**

FT-840

Frequency range

Receive: 100kHz - 30MHz

Transmit: All HF bands from 1.8-29.7MHz

Modes: SSB, CW, AM, FM (with option fitted)

Output power: Variable to 100 watts (AM 40 watts)



Low Price
£749.00

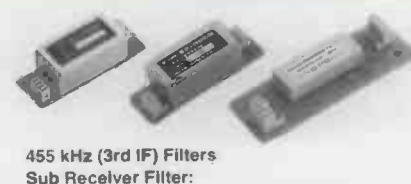
ALL LOWE PRICES INCLUDE VAT



TO ORDER CALL 01629 580800

YAESU HF ACCESSORIES

ProductCode	Description	RRP	Carriage
ATU2	Internal automatic ATU	£257.00	D
BPF1	Sub VFO filter unit	£85.00	C
CT11	Connection cable to FL7000	£12.00	A
CT20	Microphone cable for FT900	£18.00	B
DVS2	Digital voice message storage system	£199.00	B
E767	Connection cable to FL7000	£12.00	B
FAS14R	Remote aerial switch	£128.00	A
FC10	External auto ATU	£339.00	D
FC800	External automatic ATU	£489.00	D
FH1	Remote control keypad	£30.00	C
FIF232C	CAT system interface for RS232C	£77.00	C
FL7000	Solid state HF linear 500 watts	£2,159.00	D
FM1	FM unit for FT920	£44.00	D
FMUNIT747	FM unit for FT747GX and FT840	£56.00	B
FP1030A	25A PSU	£229.00	D
FP25	Main power unit for FT990/DC	£339.00	D
FP800	20A mains PSU	£339.00	D
FRB757	Relay control box for linear amplifiers	£16.00	B
KIT1000D	Upgrade kit for Ft1000	£339.00	D
MD100	Desk microphone	£110.00	
MMB20	Mobile bracket for FT900 TCVR	£33.00	C
MMB62	Mobile bracket for FT900 sub-panel	£29.00	C
SP5	Extension loudspeaker c/w audio filter	£135.00	C
SP6	Extension speaker with filters	£139.00	C
SP8	Extension speaker	£139.00	C
TCXO1	TCXO temperature compensated oscillator unit	£128.00	B
TCXO3	TCXO temperature compensated oscillator unit	£45.00	B
TCXO4	TCXO temperature compensated oscillator unit	£45.00	B
TCXO6	TCXO temperature compensated oscillator unit	£128.00	B
TCXO7	TCXO temperature compensated oscillator unit	£64.00	B
XF110C	500Hz CW filter	£95.00	B
XF110CN	250Hz CW filter	£95.00	B
XF110S	2.6kHz SSB filter	£95.00	B
XFC	3rd IF filter 2.4KHz BW (for all modes except FM)	£95.00	B
YF110C	CW filter 500Hz	£95.00	B
YF110CN	CW filter 250Hz	£106.00	B
YF110SN	2.0kHz filter	£95.00	B
YF114CN	CW filter 250Hz	£84.00	B
YF114SN	SSB filter 2.0kHz	£84.00	B
YF115C	500Hz filter - Collins	£99.00	B
YF116A	6kHz AM filter for FT920	£49.00	B
YF116C	500Hz CW filter FT920	£49.00	B
YH77ST	Open air type stereo headphones	£56.00	B



ALL LOWE PRICES INCLUDE VAT



TO ORDER CALL 01629 580800

Yaesu FT-847

The Yaesu FT-847 Ultra-Compact Satellite and All Mode Transceiver

With its high-tech design and revolutionary features, the FT-847 is truly the one radio that can do it all!

- All band performance (SSB, CW, FM, AM)
- 100 Watt output on HF/50MHz bands
- 50 Watt output on 144/430 MHz bands
- 10 Watt output on 70Mhz
- Cross-band full Duplex operation
- Normal/Reverse tracking for satellite operation
- CTCSS & DCS encode/decode built-in
- High resolution 0.1Hz tuning steps for ultra smooth tuning
- Digital Signal Processing filters (Bandpass, Notch, Noise Reduction)
- Simplified tuning with Shuttle Jog control
- Direct frequency keypad entry
- Dedicated satellite memories, with 8-character Alpha Numeric Labels
- TX Freq. (MHz):
1.8 - 50 (amateur band)
144-146/430-440
- RX Freq. (MHz):
0.5-30/50-54
108-174/420-512
- Emission modes:
LSB, USB, CW, AM, FM, PACKET(9600/1200bps:
External input.)
- Freq. Steps(Min):
0.1Hz for SSB and CW
10Hz for AM and FM

**NOW WITH
4 METRES**



- Maximum FM deviation:
±2.5 kHz(narrow)
± 5.0kHz (wide)
- Modulation Types:
SSB: J3E Balanced, filtered carrier
AM: A3E Low-level (early stage)
FM: F3E Variable reactance
FSK: J1D, J2D, F2D Audio frequency shift keying (external input), F1D
Frequency shift keying (V/UHF: external input)

Options:

- FC-20 Matching Automatic Antenna Tuning Unit (external)
- FVS-1A Voice Synthesiser
- ATAS-100 Active Antenna Tuning System (for mobile use)

Low Price £1699.00

VX-1R

Ultra compact with all the high tech features you'd want in the world!

Frequency coverage: Wide Multi-Band Receive
RX 76-999MHz
TX 144-146, 430-440MHz
AM/FM/TV Broadcast receive
AM Aircraft/Public Safety receive
CTCSS Encode/Decode
500mW output



Low Price £269.00

FT-3000M

Frequency range
Receive
110-180, 300-520 & 800-999 MHz
Transmit:
144-146MHz
Modes: FM
Output power: 70W

£349.00

FT-8100R

Best dual bander with remote head



Frequency range
Receive:
110-550MHz & 750-100MHz
Transmit:
144-146 & 430-450MHz
Modes: FM
Output power: 50W

Low Price £449.00

FT-290

Field operation mobile mutimode transceivers

Frequency range
144-146MHz (FT290RII)
Modes:
FM, SSB, CW
Output power: 25W

Low Price £499.00

FT-2500

Frequency range
144-146MHz
Modes:
FM, SSB, CW
Output power: 25W

£259.00

YAESU MOBILE ACCESSORIES

ProductCode	Description	RRP	Carriage
ADMS1	Software	£39.00	B
CSC19	Soft carrying case for transceiver & FBA-8	£15.00	A
CT39	Data cable	£9.00	A
E736DC	DC lead (E-736)	£12.00	B
FEX7362	1.2GHz module	£579.00	D
FEX7366	6m module	£299.00	D
FIF232C	CAT system interface for RS232C	£77.00	C
FL2025	Clip-on linear amplifier 2m 25W	£159.00	D
FL6020	Clip-on linear amplifier 6m 10W	£149.00	D
FL7025	Clip-on linear amplifier 70cm 25W	£189.00	D
FP700	Power supply 20A (50pc duty cycle FM)	£257.00	D
FP800	20A mains PSU	£339.00	D
FRC6	DTMF paging unit	£33.00	A
FTS17A	CTCSS unit	£38.00	A
FTS22	Dual band CTCSS unit	£59.00	A
FTS7A	CTCSS encoder/decoder	£47.00	A
FTS8	CTCSS unit	£53.00	A
FVS1A	Voice synthesiser FT736	£38.00	A
MEK2	Microphone extension cable	£30.00	B
MF1A3B	Boom mic (needs SB10)	£34.00	C
MH10F8	Scanning spkr/mic	£31.00	B
MH15C8	Hand mic with DTMF	£50.00	B
MH15D8	Hand mic with autodialer memory	£56.00	B
MH27A8J	Hand mic with DTMF keypad	£51.00	B
MH36B6J	DTMF Microphone	£51.00	B
MH42B6J	Hand microphone	£41.00	B
MMB31	Quick release mobile mounting bracket	£19.00	B
MMB60	Quick-release mobile bracket	£19.00	B
MMB62	Mobile bracket for FT900 sub-panel	£29.00	C
SB10	PTT Switch box	£29.00	B
SP6	Extension speaker with filters	£139.00	C
SP7	Extension speaker	£33.00	C
YH1	Headset with boom microphone	£31.00	B
YH77ST	Open air type stereo headphones	£56.00	B
YSK8100	Remote mount kit for FT8100R	£51.00	B

ALL LOWE PRICES INCLUDE VAT




TO ORDER CALL 01629 580800

FT-51R

Dual band handheld FM transceiver



Frequency range
 Receive:
 130-174MHz
 430 -450MHz
 AM Aircraft
 Transmit:
 144 - 146MHz
 430 - 440MHz
 Modes: FM
 Output power:
 5 selectable levels
 Features:
 120 memories
 Scrolling user help menu
 Automatic tone search
 3 dual receive configurations
 DTMF paging built-in
 3 scan modes

Low Price £399.00 

FT11R

Mono band handheld FM transceivers



Frequency range
 Receive:
 110 - 180MHz (FT11R)
 420-470MHz (FT41R)
 AM Aircraft
 Transmit:
 144 - 146MHz (FT11R)
 430 - 440MHz (FT41R)
 Modes:
 FM
 Output power:
 5, 1.5 watts
 Features:
 150 memories

Low Price £249.00 

FT-50 R



Frequency Range: (TX) 144-146 MHz (C2)
 140-174 MHz (B3)
 430-440 MHz, 420-470 MHz
 (RX) 76-300 MHz, 300-999 MHz (C2 & B3)
 Channel Steps: 5, 10, 12.5@ 15@ 20, 25 & 50 kHz

 Wide Multi-Band Receive for scanning enthusiasts 76-300 MHz, 300-999 MHz
 Selectable RX modes AM, FM-Narrow (N1), FM-Standard (N2)

Low Price £289.00 

FT-41R



Frequency range
 Receive:
 110 - 180MHz (FT11R)
 420-470MHz (FT41R)
 AM Aircraft
 Transmit:
 144 - 146MHz (FT11R)
 430 - 440MHz (FT41R)
 Modes:
 FM
 Output power:
 5, 1.5 watts
 Features:
 150 memories

Low Price £269.00 

YAESU HANDHELD ACCESSORIES

ProductCode	Description	RRP	Carriage
A16	Keypad	£33.00	A
A16D	Keypad	£54.00	A
A16S	Keypad	£75.00	A
ADMS1	Software	£39.00	B
AO6	Keypad	£22.00	A
CA10	Charge adapter	£12.00	A
CA14	Charge slot	£24.00	A
CD2	Mobile rapid charger	£73.00	B
CN3	Antenna adaptor	£5.00	A
CSC61	Case for FT11/41 and FBA14; FNB35; FNB35	£15.00	A
CSC62	Case for FT11/41 and FNB31	£15.00	A
CSC66	Case for FT51	£15.00	A
CSC67	Case for FT51	£15.00	A
CSC68	Soft Case	£15.00	A
CSC69	Soft case	£15.00	A
CT27	Clone cable for FT10/40 & FT50R	£15.00	A
CT30	Microphone adaptor	£9.00	A
EDC12	DC adaptor for FT11, FT41, FT51	£31.00	B
EDC5B	Cigar lighter DC cable with noise filter	£22.00	A
EDC6	DC Cable	£7.00	A
FBA14	Dry cell case for 4 X AA batteries	£15.00	A
FBA15	Battery Case	£17.00	A
FNB31	Battery pack for FT11/41 4.8V 600mA	£44.00	B
FNB33	Battery pack for FT11/41 4.8V 1200mA	£61.00	B
FNB35	Battery pack for FT51R	£56.00	B
FNB38	Battery pack for FT11/41 9.6V 600mA	£66.00	B
FNB40	Nicad 6V 650mAh	£43.00	A
FNB41	Nicad 9.6V 600mAh	£42.00	A
FNB42	Nicad 9.6V 1100mAh for FT50R	£46.00	A
FNB49	Nicad 6.0V 600mA	£41.00	A
FTS26	CTCSS tone squelch unit	£38.00	B
FTT12	Keypad with voice recorder	£46.00	B
MH29A2B	Remote control speaker/mic with display	£84.00	B
MH32A2B	Miniature speaker mic	£27.00	B
MH34B4B	Speaker microphone	£27.00	B
MH35A2B	Hand speaker mic	£34.00	B
MH37A4	Earpiece microphone	£22.00	B
NC34C	Charger for FNB26 / FNB15	£20.00	A
NC38C	Charger for FNB38 (needs CA9)	£20.00	B
NC50	Desktop rapid charger for FNB31-33-35-38 (requires 2pcs CA10)	£91.00	C
NC55C	Charger for FNB31 (needs CA9)	£20.00	B
NC60C	Charger	£20.00	B
PA17	Battery cable extender kit	£35.00	B
RH1	Rubber holster	£6.00	A
VC22	VOX headset	£56.00	C
VC23	VOX headset	£56.00	B

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TO ORDER CALL 01629 580800

HORA C-408 UHF

430MHz Super Mini Amateur Transceiver

The new C408 Hora super mini amateur UHF transceiver has many features associated with larger models but still fits into the palm of your hand or top pocket. It has full UHF coverage with the option of extended receive from 380 - 460 mhz, 6 selectable tuning steps and is also extremely economical on battery consumption. Current drain on transmit is only 230 mA which gives an out put power of 230mW. The advanced power saving circuitry gives a receive power consumption of only 0.47mA and 0.1mA on auto power off.

It has internal dual watch, semi duplex operation, programmable repeater shift, pause or busy scanning modes and CTCSS encode fitted as standard.

Ideal for novices and low power uses such as rallies and local chat nets.

The full specification is:

Frequency range:	430 - 440 Mhz
Mode:	FM
Ch steps:	5, 10, 12.5, 20, 25, 50 khz
RF Power:	230 mw (3v) max
CTCSS:	67 - 131.8 Hz
Memory Channels:	20
Operation Voltage:	2.2 to 3.5 volts
Current Drain:	Approx 230 mA on TX
Size:	58 x 80 x 25mm
Weight:	130g including antenna and batteries.

Low price £89.95 carriage free.



**Incredible
value**

ONLY

**£89.95
plus FREE p&p**

Kantronics

Low Electronics have been UK distributors for Kantronics for nearly 10 years. We've watched them grow from humble beginnings to become world leaders in digital communications, paralleling our own growth in the short wave receiver market.

The expertise we have gained together allows us both a unique perspective on the market, ensuring that Kantronics have direct feed back from the UK market so their product development reflects the differing licensing conditions and operator needs between the USA and the UK and Europe. This has allowed Kantronics to stay ahead of their competitors, building in new features that are both technically advanced, innovative and have pushed forward the boundaries of digital communications.

As befits a world-class manufacturer, Kantronics have a superb range of world-class products, from easy to operate VHF TNCs to powerful multi-mode data controllers allowing world wide communications with advanced error correcting protocols.

All Kantronics TNCs have advanced GPS (Global Positioning System) capabilities too...

Offering the most flexible GPS operations available in a TNC, Kantronics TNCs allow users to configure and make use of GPS data exactly the way they like it. The TNCs are APRS-compatible and can connect to GPS receivers with NMEA0183 interface and provides outstanding GPS features. With the multiple string parsing capabilities, users select as many as 4 of the GPS units NMEA data strings. Once the data strings are selected, users can specify which of the 4 buffers should be transmitted and can specify the beacon start time as well as the amount of time between beacons for each of the buffers. This allows multiple stations to easily report without data collision. Since the TNCs clock is regularly updated by the satellite determined GPS clock, the transmission times and intervals are always accurate. In addition, users can set up a tracking buffer to store GPS data for later retrieval. This buffer is accessible via the TNCs mailbox. The sysop may also reconfigure the GPS unit remotely by connecting to the TNC and simply changing the parameters

KAMPLUS

The ultimate multi-mode TNC



The KAM Plus is a dual port, HF/VHF multi-mode terminal node controller used for sending and receiving data by radio. Simply connect it to your computer's serial port and to an HF transceiver, a VHF transceiver, or both, and the KAM Plus is ready to send and receive mail, monitor and make long distance contacts, track GPS activity, and much more. The panel design, cable, and connectors make connection quick and easy, and our new-user command set and on-line help enable even beginners to enjoy this high performance TNC. The KAM Plus supports G-TOR(r), Pactor, AMTOR (ARQ, FEC, SELFEC, CCIR 476 and 625), Packet, CW, RTTY, ASCII, and NAVTEX/AMTEX.

KAM Plus Features

Separate HF and VHF/UHF radio ports, capable of simultaneous operation.

PBBS with more than 100K of mailbox space and remote access. And with the ARQ BBS command, users can even access the mailbox via the HF port in G-TOR, AMTOR, or Pactor ARQ.

These popular modes: G-TOR, Pactor, AMTOR, Packet, CW, RTTY, ASCII, NAVTEX/AMTEX APRS and NMEA-0183 GPS compatibility

HF and VHF at the Same Time

The KAM Plus allows simultaneous HF and VHF packet operation. Using Host Master multiple windows software, the KAM Plus supports operation of any HF mode and VHF packet at the same time, and switching between ports is accomplished with only a single keystroke.

G-TOR

This lightning-fast digital mode provides maximum resistance to the effects of multi-path and interference, so it is the fastest HF mode available in a stand-alone TNC. G-TOR operates at 300, 200, or 100 baud, automatically adjusting to maximise throughput based on the quality of the link. In addition to high data throughput, G-TOR offers full-frame data interleaving to protect against burst errors. However, if an error should occur, G-TOR's Golay error correction coding can correct 3 out of 12 transferred data bits, so damaged information is most often quickly and accurately restored without multiple re-transmissions. When using a Host Mode program (such as Host Master II+) it is possible to monitor G-TOR while you are connected to other stations on VHF packet.

Firmware

Operates G-TOR, Pactor, AMTOR (ARQ, FEC, SELFEC, CCIR 476 and 625), Packet, CW, RTTY, ASCII, NAVTEX/AMTEX

TOR Standby for easy operation in all TOR modes (G-TOR, Pactor, AMTOR)

G-TOR monitoring within the unit; no separate software required

Extended RTTY and AMTOR character sets

Programmable mark and space tones

Enhanced CW operation: Farnsworth spacing, weighting, programmable filter bandwidth/centre frequency, and audio tone transmission

Software carrier detect, allows open squelch and weak signal detection

Command sets for new and experienced users; on-line help messages for each command

User interface supports standard terminal, Host, BBS, KISS, and GPS modes

Bi-level WEFAX reception (special software required)

Enhanced forwarding and reverse forwarding capabilities

Message editing

Mail waiting LED

Configurable to more than 100K

Hardware

128K RAM (expandable to 512K), battery backed to save all parameters and PBBS messages

Large, 10-segment bargraph for easy tuning

Front panel LEDs indicate status for both HF and VHF operations

12-pole switched capacitance filter for HF port

Real-time, battery-backed clock

RS-232/TTL interface, compatible with PC, Mac, or C-64

Low power requirement: 12 Vdc at <300 mA

Small size: 6.35 by 1.20 by 8.25 (deep) inches.

Weight: 2.5 lb (1.1 kg)

Low Price **£399.00**



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TO ORDER CALL 01629 580800

KPC3 PLUS

High performance TNC



The KPC Plus (KPC3P) is a high performance TNC designed for 1200 baud Packet Radio operation on VHF and UHF bands with an FM radio. This unit replaces the "industry standard" KPC3, introduced in June of 1992 and therefore has a great pedigree, with thousands in use already all over the world.

New features include the following:

Keyboard controlled digital pot for setting data drive for your radio.

Two A/D data acquisition inputs to complement the two control/data line outputs, software controlled, remotely accessible

Expanded manual, including more than forty pages of "operational" information: packet mode, remote access operation, personal mailbox operation, GPS interfacing, KA-Node operation, WEFAX monitoring, Emergency Manager's Weather Information Network (EMWIN) monitoring, and other modes such as KISS.

Firmware

Enhanced GPS capability that is NMEA0183 and APRS compatible

Remote access allows sysop to change all KPC3 parameters from another packet station

User interface supports standard terminal, Host, BBS, KISS, and GPS modes

KISS mode provides compatibility with TCP/IP programs such as NET and NOS

Weather facsimile (WEFAX) reception (special computer software required)

Hardware

32K or 128K RAM versions (expandable to 512K), battery backed to save all parameters and PBBS messages

Software carrier detect allows fast operation with unsequelched audio Requires very low power: 6-25 Vdc <15 mA (with LEDs off, unit inactive) <40 mA (LEDs on, unit active)

Can operate on a 9-volt battery

AFSK output (2 mV-4 V P-P) adjustable with internal potentiometer

Front panel LEDs provide operational information: power, transmit (Xmit), receive (Rcv), connect (Con), status (Sta), and mail waiting

Measures only 0.8" x 5.2" x 5.2" (2.1 cm x 13.3 cm x 13.3 cm)

Weights only 11 oz. (0.312 kg)

RS-232 serial port (cable not included)

Low Price £149.95

KPC9612 PLUS

Separate radio ports capable of simultaneous operation



The new KPC9612 Plus retains the features of the KPC9612, replaces one firmware command, adds several new ones to accommodate new features, and is slightly larger in size than its predecessor. New features include the following:

An interconnect header enabling the addition of a third modem, thus making the 9612 Plus three-port capable A 4,800 to 38,400 baud DFSK modem in port 2 Keyboard controlled digital pots for setting data drive levels on both ports and receive equalization on the high speed port Two A/D data acquisition inputs to complement the two control line outputs, software controlled Expanded manual, including more "operational" information Supports amateur (POCSAG) paging, both transmission and monitoring

Uniquely, the KPC9612 Plus features expandability to a third port, with two disconnect headers installed on the main PCB. This "port 3" can be added simply by plugging the second PCB in, replacing the front and back panels, and replacing the firmware prom. Several port 3 boards are planned, including a KAM-like HF modem.

Features: hardware and firmware are very similar to the KPC3 Plus but the following in addition: Separate radio ports capable of simultaneous operation One radio operation with both speeds 9600 baud port, also configurable to 4800 or 19,200 baud and is G3RUH compatible Four digital output lines enable remote control of attached devices Can connect to one radio and still operate at two speeds, automatically

Low Price £329.00

Paging Facilities in Kantronics TNCs

All Kantronics units now support POCSAG amateur paging, the transmission and monitoring of 512, 1200, and 2400 baud Radiopaging Code No. 1 (POCSAG) messages. Nine keyboard paging commands have been added to the firmware in addition to a paging server. Via the server, amateurs may connect to the TNC and send a page, view a log of pages sent, or list a directory of callsign-pager IDs.

This allows local paging networks to be set up using pagers returned for use on amateur bands or to decode POCSAG transmissions.

NEW! Kantronics Accessories

DATAENGINE	Networking data platform	£429.00	D
DE19K29K6	High speed modem for DATAENGINE	£119.00	C
HOSTMAC	Hostmaster software for Apple Mackintosh computers	£89.00	B
HOSTMASTER	HOSTMASTER II+ for DATAENGINE & KAM (Now supporting FACTOR) for IBM compatible PCs	£79.00	B
KAMEB	Enhancement board for KAM; adds many options and upgrades existing KAMs to KAMPLUS standard	£109.00	C
KAMEBUP	Enhancement board firmware upgrade	£39.95	C
KAMUP	V5 ROM plus EEPROM & manuals	£39.95	A
KANBB	Battery backup smart socket	£22.50	A
KNET3	BPQ network firmware for KPC3	£49.95	B
KNET9612	BPQ network firmware for KPC9612	£49.95	B
KPC3UP	V5.1 ROM upgrade fro KPC3	£25.00	B
KPC9612UP	Firmware upgrade for KPC9612	£39.95	B
PCCOMBO	Terminal & WEFAX software for IBM compatible PCs	£49.95	B
RAM128	128K RAM upgrade for KPC3	£29.00	A
RAM32	32K RAM upgrade	£19.95	A
RTC	Real time clock	£29.00	A
SMARTWATCH	Battery backup and time keeper	£35.00	A
WDT	Watchdog timer for KPC2	£12.95	A

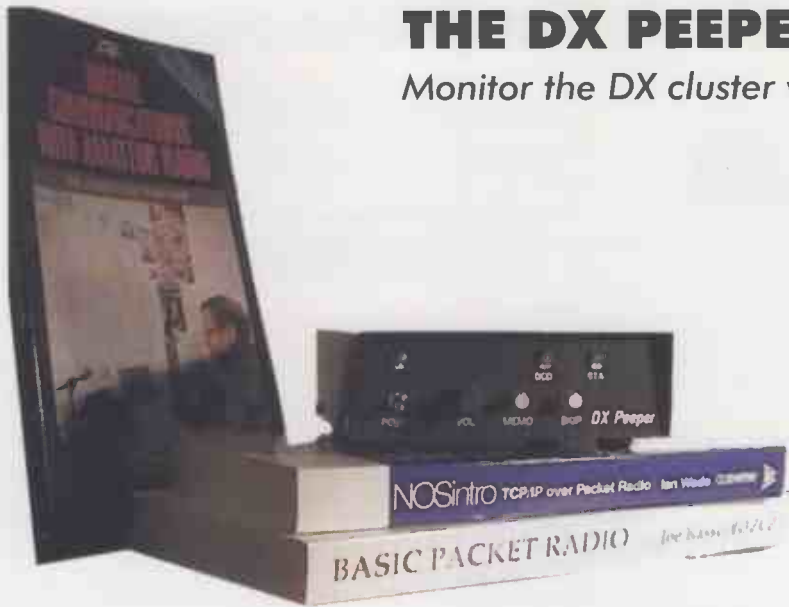
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THE DX PEEPER

Monitor the DX cluster without being connected!



The DX Peeper provides the ability to monitor DX spots from the DX packet cluster network without the necessity of being connected to the network, or the use of a computer. What is needed is a FM receiver tuned to one of the ports of a local cluster node, and some local amateur to be connected to that port so that you can "peep" at the spots which are broadcast by the cluster node to him. In general it appears that typically 6+ amateurs are connected to the main UK nodes at any time, and so you will usually have someone connected to each of the 4 metre, 2 metre and 70 cms ports used by the cluster nodes.

The DX Peeper itself comes in a professional grey metal box , 4.5 x 1.5 x 6 inches in dimensions. It is well made both internally and externally. It needs a nominal 12V dc power supply, and connects to the audio output of a receiver tuned to an appropriate DX cluster port - that's all, no computer, TNC, software or transmitter for that matter.

The unit has few controls, and their use is simple and intuitive. There is an on/off switch, a volume control for the internal speaker, a Memo push button to play back recorded spots and a Skip push button to pass over a spot during play back (to save time). Additionally there are three LEDs, two are red - for power on and DCD (which lights when any packet data is being received). The key display is the green LED which lights when DX spot information is received.

The DX spot information is played when it is received via the internal speaker in Morse (CW) at about 12 words per minute. Up to the last 6 DX spots may be played back the same way by pressing the Memo button.

The whole procedure of installation and use is exceedingly simple (power and audio connection) - particularly in comparison to setting up a full packet set up. The only concern I had was about setting up the audio level between the receiver and the DX Peeper, but I found the unit accepted a wide range of input, and a normal headphone or external speaker output is just fine.

How does the Peeper work?

Packet data from the receiver is analysed by a dedicated microprocessor inside the DX Peeper. What it is looking for is the DX cluster node sending out its standard packet format for a DX spot, which contains the DX station callsign, frequency and time (amongst other things). Only when the Peeper sees this does it pass that packet information in Morse to the speaker and record the spot in it's own memory. The Morse output is always in the same format, for example:-

de ZL8RI 7005 0700z

DX cluster nodes often send out the same spot many times to complete data transfer to the stations connected to it. Potentially this could result in the Peeper filling up its memory with the same spot repeatedly. However the Peeper is programmed to look for identical spots and ignores all repeats. The software also looks at the time of the last DX spot and counts time forward from this. Any spots which are more than one hour old from this "counted" time are discarded. In this way the Peeper ensures that when you press the Memo button you only get up to date spots.

The beauty of this device is its simplicity, and so it is not surprising that there are not many options in use. However it is possible to adjust the tone and speed of the Morse by internal settings. (12 words per minute is the slowest setting).

There are a large number of people who would dearly love access to the DX cluster but don't particularly want to get involved with computers and the DX Peeper is just what they will need!

Low Price **£149.00** 

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CABLES/CONNECTORS/ANTENNA COMPONENTS

ProductCode	Description	RRP	Carriage
6CORE	Rotator control cable; 6 cores; price per meter	£0.75	B
8CORE	Rotator control cable; 8 cores; price per meter	£0.99	B
CUWIRE	7-strand copper wire with clear PVC sheath	£0.40	B
RBCABLE	Red and black DC cable; price per meter	£0.59	B
SLOT300	300 Ohm slotted twin feeder ; price per meter	£0.60	B
TWIN300	300 Ohm twin feeder; price per meter	£0.20	B
TWIN75	75 Ohm twin feeder; price per meter	£0.30	B
UR43	50 Ohm coax; 5mm dia. (British made; high quality); price per meter	£0.39	B
UR67	50 Ohm coax; 10mm dia (British made; high quality); price per meter	£0.99	B
239259T	2 X SO239 to PL259 T	£1.99	A
2FP	2 pole power plug	£0.29	A
2MP	2 pole power plug	£1.40	A
2MS	2 pole power socket	£1.40	A
4MP	4 pole mic plug	£1.53	A
4MS	4 pole mic socket	£1.53	A
6MP	6 pole mic plug	£1.53	A
6MS	6 pole mic socket	£1.53	A
8MP	8 pole mic plug	£1.53	A
8MS	8 pole mic socket	£1.75	A
BNC10MM	BNC Plug for 10mm Coax	£2.19	A
BNCFS	BNC Line socket; 5mm coax	£0.98	A
BNCIL	Inline connector for BNC Plugs	£1.26	A
BNCPLUG	BNC Plug for 5mm coax	£1.53	A
BNC SO239	BNC plug to SO239 adapter	£1.72	A
CARANT	Car antenna plug	£0.50	
DC13	1.3mm DC plug	£0.50	A
DC21	2.1mm DC plug	£0.50	A
DC25	2.5mm DC plug	£0.50	A
IL259	Back to back PL259s	£1.50	A
ILSO239	Inline connector for PL259s	£1.20	A
JP2	2.5mm mono jack plug	£0.39	A
JP3	3.5mm mono jack plug	£0.39	A
JP4	0.25 mono jack plug	£0.39	A
JP5	0.25 in. stereo jack plug	£0.39	A
JP6	2.5mm stereo jack plug	£0.65	A
JP7	3.5mm stereo jack plug	£1.25	A
JPAD	Adapter: 2.5mm plug to 3.5mm socket	£0.99	A
LA1	Lightning arrester; PL/SO239 connectors	£1.75	A
NBNC	Adapter N Plug to BNC Socket	£2.87	A
NPLUG	N Plug for 5mm coax	£2.95	A
NPLUG67	N Plug for 10mm coax	£2.95	A
NS259	Adapter N socket to PL259	£2.40	A
NSBNC	Adapter: N skt to BNC Plug	£4.15	A
NSO239	Adapter: N Plug to SO239	£4.35	A
PHONO	Phono plug	£0.35	A
PL259	PL259 Plug for 10mm coax	£0.80	A
PL259BNC	Adapter: PL259 Plug to BNC Socket	£1.85	A
PL259SE	Side entry PL259 5mm coax	£2.50	A
PLEASY	Solderless PL259 for 5mm cable	£1.12	A
PLRED	PL259 plus reducer	£1.12	A
PLUG3A	13A mains plug with 3A fuse	£0.99	A
RA259	Adapter: Right angle PL259/SO239	£1.50	A
REDUCER	5mm cable adapter for standard PL259	£0.32	A

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CABLES/CONNECTORS/ANTENNA COMPONENTS

RS232ADAPT	25-way socket to 9 pin plug for RS232	£3.95	A
SO239	Chassis mounting socket	£0.75	A
SO239T	SO239 T-Piece	£1.79	A
SPL43	Dry splice for UR43	£0.55	A
SPL67	Dry splice for UR67	£0.65	A
TDA2	Adapter: 0.25 in. to 3.5mm Jack	£0.55	A
TDA6	Adapter: 0.25 in. jack; stereo to mono	£0.55	A
BNCLEAD	RF lead; BNC to BNC	£3.99	A
DELEAD	Data Engine lead - made to order	£12.00	A
DLHI	Connecting lead; Icom HF TCVR to Kantronics	£12.00	A
DLHK	Connecting lead; Kenwood HF TCVR to Kantronics	£12.00	A
DLHY	Connecting lead; Yaesu HF TCVR to Kantronics	£12.00	A
DLVI	Connecting lead; Icom VHF TCVR to Kantronics	£12.00	A
DLVK	Connecting lead; Kenwood VHF TCVR to Kantronics	£12.00	A
DLVY	Connecting lead; Yaesu VHF TCVR to Kantronics	£12.00	A
IECLEAD	IEC main lead; 1m approx; 13A mains plug moulded on	£4.50	A
JJLEAD	AF lead; 3.5mm to 3.5mm jack; 1.2m approx.	£1.25	A
PJLEAD	AF lead; phono to 3.5mm jack lead; 1.2m approx	£1.25	A
PLBNCLEAD	RF lead; PL259 to BNC	£4.99	A
PLLEAD	RF lead; PL259 to PL259	£3.99	A
PPLEAD	AF lead; phono to phono; 1.2m approx	£1.25	A
RS232AT	RS232 lead for AT and most laptop computers	£12.95	A
RS232LEAD	Standard RS232 lead; 25-way connectors	£12.95	A
RS232NULL	RS232 lead for using NRD535 with computer control	£12.95	A

CHELCOM
Aerials

Chelcom MultiSystem

A range of high specification, modular, wire antenna components and systems

Universal dipole centre

The universal dipole centre is supplied with stainless steel nuts and bolts for connection between aerial elements and feeders as well as a clamp for coaxial cable. Solder tags are also included. This component has holes provided to facilitate the use of large ribbon or open wire, and can be used at the top and/or bottom of the feeder. The universal dipole centre, plate for the balun. A loop is provided for use with a support rope. Construction is of injection moulded, ultraviolet stable thermoplastic, which provides high strength and good insulating properties.

Baluns

The baluns are designed to be used from 3 - 30 MHz, and are built using high quality materials throughout. A "Q-1" grade ferrite core ensures very high coupling efficiency for the 14 gauge copper windings which terminate at a "Greenpar™" silver plated and PTFE construction SO-239 socket one end, and plated brass terminals at the other. This transformer is then encapsulated in thermoplastic, producing a completely waterproof, high strength component capable of handling powers up to 1.5 kW PEP (at SWRs less than 3 to 1). There are three baluns available; 1:1, 4:1 and 5:1

The end fed balun is designed for use with random length, end fed wires, used mostly for short wave listening and QRP work up to 150 watts. It enables you to use coax into the shack, and, by reducing the impedance of the aerial and earthing the system, makes for easier matching to the receiver and a far less noisy reception, plus stronger signals.

Insulators

Injection moulded insulators complete the Multi-System, and, made in the same material as the universal dipole centre, provide a strong termination with good insulation for the aerial system.

Item	Description	Price	Carr.
CABALUN11	1 to 1 Balun	£30.00	B
CABALUN41	4 to 1 Balun	£30.00	B
CABALUN51	5 to 1 Balun	£30.00	B
CABALUNEF	End-fed balun	£30.00	B
CADIPOLE	Dipole centre	£3.95	A
CAFLEX	FlexWeave multi-stranded antenna wire	£0.40	
CAINS	Insulator	£0.75	A



ALL LOWE PRICES INCLUDE VAT



TO ORDER CALL 01629 580800

Chelcom Wire Antennas

The Chelcom range of wire antennas are constructed using MultiSystem components and FlexWeave multi-stranded wire for good performance and durability.



G5RV Antennas

The G5RV is probably the most used multiband aerial system of all. The full size version offers multiband coverage from 80m through to 10m when used with a good external Antenna Tuning Unit. The total length is 102 feet and the 300 Ohm ribbon feeder cable is 29 feet 6 in long, terminated in an SO239 coaxial socket for connection to coaxial cable. Insulators are fitted at the wire ends. A "half-size" version is also available, 51 feet in length with a feeder length of 15 feet.

Item	Description	Price	Carr.
CAG5RVF	Quality full-size G5RV	£45.00	C
CAG5RVH	Quality half-size G5RV	£35.00	C

Deluxe versions of the G5RV antennas are also available. The feeder in these antennas is the more robust 450 Ohm ladder feeder and a balun is incorporated at the base of the feeder which helps to reduce noise and interference.

Item	Description	Price	Carr.
CAG5RVFP	Deluxe Full size G5RV with balun and 450 twin feeder	£75.00	C
CAG5RVHP	Deluxe Half size G5RV with balun and 450 twin feeder	£65.00	C

Windom Antennas

The Windom has been around for many years, and has undergone several alterations since it's original design using a single wire feeder, which worked well, but suffered many of the problems associated with single wire feeds brought into the shack.

The Chelcom design offers two antennas, one covering 80-10 metres (CA80W) and another covering 40-10 metres (CA40W). The CA80W is 133 feet overall length with the feed point 45 feet from one end. The CA40W is shorter at 66 feet long with the feedpoint at 22 feet, and is ideal for smaller locations! The use of a balun and coaxial feed coupled to an ATU, means these new Windoms are really versatile, and with the feed point closer to one end, makes bringing the feed to the shack a lot more convenient than centre fed antennas.

Windoms have enjoyed a surge in popularity in the last few years and have proved to be very effective, easy to erect, DX aerials

CA40W	Windom 40 to 10m	£55.00	C
CA80W	Windom 80 to 10m	£65.00	C

End fed antenna

The End Fed Antenna is ideal for QRP work up to 150 watts and is 66 feet long. A good antenna tuning unit will be required and an effective earth is mandatory.

Item	Description	Price	Carr.
CA66EF	66' end-fed wire antenna	£55.00	C

ALL LOWE PRICES INCLUDE VAT



TO ORDER CALL 01629 580800

High performance antennas from Butternut

Butternut HF9V-X

9 band vertical antenna

Work 9 bands

80 meters through 6 meters with a single, highly efficient vertical radiator only 26 feet tall! Operates on 160 meters with an optional resonator

No radials required

When the optional CPK counterpoise kit is installed on your HF9V-X. Only 11.5 feet square, this is the answer for limited space applications or where a radial system is just not practical

More efficient

Than conventional trapped designs or "halfwave" verticals. The exclusive Butternut Differential Reactance Tuning® system allows more of the antenna to be active on each band, providing superior performance and greater VSWR bandwidth


Compare active element lengths:

Band HF9V-X "Typical" Trap Vertical

Band	HF9V-X	"Typical" Trap Vertical
6m	9ft	Not provided
10m	26ft	8ft
12m	26ft	9ft
15m	12ft	10ft
17m	26ft	11ft
20m	26ft	12ft
30m	26ft	22ft
40m	26ft	20ft
80m	26ft	25ft

HF9V-X Specifications:

Bands	80-6 meters
Height	26ft / 7.9m
Power rating	Legal limit
Feedpoint impedance	50 ohms
VSWR at resonance	1.5:1 max
Bandwidth for 2:1 maximum SWR:	
6m	1 MHz
10m	1500 kHz
12m	200 kHz
15m	Entire band
17m	200 kHz
20m	Entire band
30m	Entire band
40m	280 kHz
80m	40 to 100 kHz*
	* depending on ground system
Wind survival (unguyed)	80 m.p.h.
Shipping weight	14 pounds

Low Price £255.00 

Butternut HF2-V

Vertical antenna for 80 & 40 meters

Optimize your performance

Optimize your transmissions on 80 and 40 meters with the famous Butternut HF2-V vertical. All 32 feet of the HF2-V are active on both bands, maximising efficiency while providing the lowest possible radiation angle. Optional adapters are available for 160 & 30 meters

More efficient

Than conventional trapped designs or "halfwave" verticals. The exclusive Butternut Differential Reactance Tuning® system allows all of the antenna to be active on both bands, providing superior performance and greater VSWR bandwidth

HF2V specifications

Bands	80 & 40 meters
Height	32ft / 9.75m
Power rating	Legal limit
Feedpoint impedance	50 ohms
VSWR at resonance	1.5:1 max.
Bandwidth for 2:1 maximum SWR:	
40m	Entire band
80m	90kHz
Wind survival (unguyed)	60 m.p.h.
Shipping weight	13 pounds

Low Price £199.90 

Accessories for your HF9V-X

STR-II Radial kit £44.95 

Resonant radial kit for above ground mounting of HF9V-X

RMK-II Roof mounting kit £69.95 

Roof mounting kit. Includes tripod, STR-ii radial kit and required hardware

TBR-160-S 160 meter resonator £74.95 

Resonator for operation on 160 meter band. Not recommended for use with CPK counterpoise. Maximum power 500W CW, 1200W PEP on SSB. Bandwidth for 2:1 SWR is 10-20 kHz depending on your ground system. Installation may cause a slight reduction in 80 meter bandwidth

Accessories for your HF2V

TBR-160-S 160 meter resonator

Resonator for operation on 160 meter band. Not recommended for use with CPK counterpoise. Maximum power 500W CW, 1200W PEP on SSB. Bandwidth for 2:1 SWR is 10-20 kHz depending on your ground system. Installation may cause a slight reduction in 80 meter bandwidth

30 MRK 30 meter adapter £44.95 

Resonator kit operation on 30 meters. Not recommended for use with TLK loading kit

TLK Top loading kit £21.95 

Top loading kit with increased bandwidth and efficiency on 80 & 160 meters. It consists of four 25ft stranded umbrella wires

STR-II Radial kit £44.95 

Resonant radial kit above ground mounting of HF2V

RMK-II Roof mounting kit £69.95 

Roof mounting kit. Includes tripod, STR-II radial kit and required hardware

Accessories for your HF6V-X

A-17-12 Adapter for 17 & 12 meters £44.95 

Optional resonator enabling your HF6V-X to operate on the 17 and 12 meter bands

A-6 6 meter adapter £13.95 

Optional resonator enabling 6 meter operation with your HF6V-X

ALL LOWE PRICES INCLUDE VAT



TO ORDER CALL 01629 580800

Butternut HF5B

Compact butterfly beam

Five popular bands

In a single, lightweight 2 element beam antenna. Ideal where space is limited, the HF5B provides up to 3dBd (5.2dBi) gain on 20 meters, up to 5 dBd (7.2dBi) on 15, 12 & 10 meters. Operates as a rotary dipole on 17 meters

Light enough

To turn with a TV rotator, the surface area of the HF5B is a mere 3 square feet, perfect for a lightweight mast or rooftop tripod. Compact size and minimal turning radius add to the ease of installation

Maximum efficiency

Is achieved through use of a unique tuning arrangement that allows the entire antenna to radiate on every band, providing superior performance in a compact package

HF5B specifications

Front-to-back ratio	up to 20 dB
Front to side ratio	up to 30 dB
Feedpoint impedance	50 ohms
Bandwidth for 2:1 maximum SWR:	
10m	1.5mhz
12m	Entire band
15m	Entire band
17m	Entire band
20m	200 kHz

VSWR at resonance 1.5:1 max

Power rating 500W CW, 1200W PEP SSB

Wingspan 12.5ft

Vertical spreaders 6ft

Surface area 3 sq. ft

Turning radius 7ft

Mast size 1.5in max

Wind survival 80 m.p.h.

Shipping weight 20 lbs

Low Price £309.00 

Butternut HF6V-X

6 band vertical antenna

Work the 6 most popular bands

80 meters through 10 meters with a single, highly efficient vertical radiator only 26 feet tall! Optional adapters are available to enable operation on 160 meters, 6 meters, and 17 & 12 meters

No radials required

When the optional CPK counterpoise kit is installed on your HF6V-X. Only 11.5 feet square, this is the answer for limited space applications, or where a radial system is not practical

More efficient

Than conventional trapped designs or "halfwave" verticals. The exclusive Butternut Differential Reactance Tuning® system allows more of the antenna to be active on each band, providing superior performance and greater VSWR bandwidth

Compare active element lengths:

Band	HF6V-X	"Typical" Trap Vertical
10m	26ft	8ft
15m	12ft	10ft
20m	26ft	12ft
30m	26ft	22ft
40m	26ft	20ft
80m	26ft	25ft

HF6V-X Specifications:

Bands	80/40/30/20/15/10 meters
Height	26ft / 7.9m
Power rating	Legal limit
Feedpoint impedance	50 ohms
VSWR at resonance	1.5:1 max
Bandwidth for 2:1 maximum SWR:	
10m	1500 kHz
15m	Entire band
20m	Entire band
30m	Entire band
40m	280 kHz
80m	40 to 100 kHz*
	*depending on ground system
Wind survival (unguyed)	80 m.p.h.
Shipping weight	12 pounds

Low Price £209.95 

Catalogue pricing information

All prices shown are inclusive of VAT unless specified. Carriage is additional according to the code shown to the right of each price as follows:

A = £1.00 **B** = £3.00 **C** = £5.00
D = £10.00

Applies to UK Mainland only

ALL LOWE PRICES INCLUDE VAT

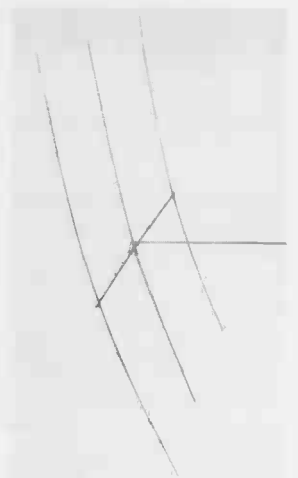
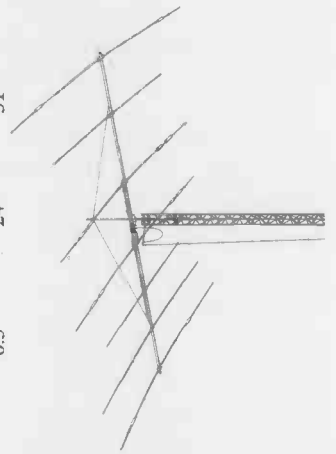
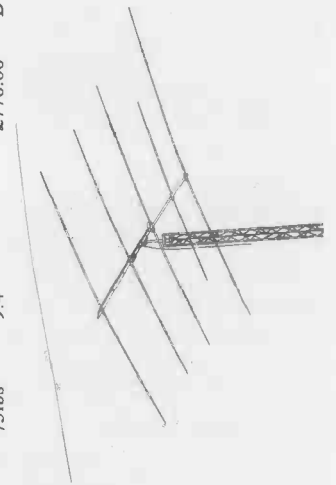


TO ORDER CALL 01629 580800

hy-gain[®] Beam antennas

by Telex

Item	Description	Gain (dB)	Length	Longest element	Turning Radius	Weight	Surface area (sq ft)	Price	Carr.
1009AA	12 ele log periodic 10 / 12 / 15 / 17 / 20m							£1,325.00	D
1010AA	14 ele log periodic 10 / 12 / 15 / 17 / 20 / 30m							£1,925.00	D
103BAS	10m; 3 ele beam	5.7	8'	18'7"	10'2"		2.0	£129.00	D
105CAS	10m; 5 ele beam	8.6	24'	18'	15'		3.9	£249.00	D
153CAS	15m; 3 ele beam	5.7	12'	25'	14' 3"		3.0	£175.00	D
155CAS	15m; 5 ele beam	7.6	26'	25'	17.5		5.2	£379.00	D
203BAS	20m; 3 ele beam	5.1	16.5'	37'	20'		5.4	£295.00	D
204BAS	20m; 4 ele beam	6.0	26'	36.5'	22.5'		7.3	£465.00	D
205CAS	20m; 5 ele beam	6.5	34'	36'	25'		9.0	£640.00	D
71	40m Discoverer; rotatable dipole		2.7'	45'	22.5'	23lbs	2.7	£255.00	D
72	40m Discoverer; 2 ele beam	4.3	22.6'	44.8'	25'	57lbs	6.0	£570.00	D
73K	Director kit for 72	5.3	35'	45' 7"	28' 9"	98lbs	9.0	£360.00	D
EX143040	30/40m dipole kit for Explorer 14							£159.00	D
EXPLORER14	4 ele; 20/15/10 Broadband	5.9	14'	31' 6"	17' 3"	45lbs	7.5	£499.00	D
TH11DXS	11 ele; 20/17/15/12/10m	6.2	24'	37'	22'	88lbs	12.5	£995.00	D
TH2MK3S	2 ele; 20/15/10 Compact	3.4	6'	27.3'	14.3'	20lbs	3.25	£320.00	D
TH3JRS	3 ele; 20/15/10 600W PEP	5.8	12'	27' 3"	14' 9"	21lbs	3.35	£325.00	D
TH3MK4	3 element beam	5.8	14'	27' 5"	15' 4"	35lbs	4.6	£425.00	D
TH5MK2S	5 ele; 20/15/10 Broadband	6.1	19'	31' 6"	18' 5"	57lbs	7.4	£660.00	D
TH7DXS	7 ele; 20/15/10m Broadband	6.5	24'	31'	20'	75lbs	9.4	£770.00	D



ALL LOWE PRICES INCLUDE VAT



TO ORDER CALL 01629 580800

hy-gain[®] Vertical antennas by Telex

New DX77

Advanced vertical windom



Hy-Gain introduces its new DX77 Advanced Vertical Windom with features surpassing any HF verticals currently on the market. The superior mechanical design, high power capabilities and 55% greater bandwidth than competitive verticals on 20 and 40 meters make it an exceptional value for a high performance system.

The unique design of this vertical antenna provides **n o - c o m p r o m i s e** performance without the need for ground radial wires. It puts the world at your fingertips on the HF Ham bands, 10 through 40 meters, including WARC

bands! Capable of handling more power than any other vertical designed without ground radials, the DX77 can handle 750 Watts of keydown RF output for at least 30 minutes. Automatic band-switching and low angle of radiation allows for enhanced DX capabilities.

The Hy-Gain DX77 features Telex's superior quality and reliable mechanical design with double-walled tubing, steel mast clamps and all stainless steel hardware. The 29 foot (8.8 m) vertical also features a new easy-tilt mount that makes lowering it for tuning an easy, one person job. Assembly is quick and effortless as most of the antenna is pre-assembled and labeled to assist in final assembly and tuning.

Recommended installation is 7 to 10 feet above ground. It can also be mounted on a pole, chimney, rooftop or deck, and is also a superb for portable RV operations.

Specifications:

2:1 VSWR Bandwidths:	
40 meters - 100 KHz min.	150KHz typical
30 meters - 100 KHz min.	150KHz typical
20 meters - 200 KHz min.	250KHz typical
17 meters - 200 KHz min.	250KHz typical
15 meters - 400 KHz min.	500KHz typical
12 meters - 300 KHz min.	400KHz typical
10 meters - 1500 KHz min.	1700KHz typical

Maximum power: 750 watts average, 1500 watts PEP
Gain: unity gain (compared to half-wave vertical dipole)
Input impedance: 50 ohms

Total height: 29 ft. (8.8 m)
Bottom radial elements: 4 each, 5 ft. (1.5 m)
Recommended mast size: 1.75 to 2.125 in. (44 to 53 mm)
Weight: 25 lb. (11.35 kg)
Wind Area: 1.9 sq. ft. (.17 sq. m)
Maximum wind without guys: 60 mph
Assembly time: Approx. 45 minutes

DX88

For 80 meters, the DX88 stands alone

If you want an antenna for 80 meters, buy a real 80 meter antenna - The DX88 was designed for 80 through 10 meters. The DX88 offers coverage of all HF amateur bands, including the WARC bands.

One of its key features is full band width coverage with less than 2:1 VSWR on 10, 12, 15 and 17 meters. Tunable bandwidth is available on the remaining bands, including 80kHz of useable bandwidth on 80 meters.

DX88 flexibility is provided by adjustable capacitors. These capacitors eliminate many of the tuning problems associated with other verticals. Eighty and forty meters can be tuned from the ground without having to lower the antenna.

The DX88

- integrates low-loss traps
- has a low angle of radiation for good DX performance
- is self supporting
- incorporates stainless steel hardware for long-term reliability
- will withstand 75mph winds without damage
- backed by a two-year limited warranty

Optional accessories

- Ground radial system
- Roof radial system
- 160 meter add-on kit

Low Price £329.00

Low Price £399.00



ALL LOWE PRICES INCLUDE VAT



TO ORDER CALL 01629 580800

pro-am[®]

Watson Mobile Antennas & Mounts

160-6 meters mobile antennas

HF mobile begins here!

If you're ready to experience home station performance and great HF DXing on the open road, then gear up with Pro-Am's monoband PHF Series mobile antennas and enjoy top results all the way!

Pro-Am's Monoband PHF series consists of black fibre glass lower section with integral coil and adjustable (and removable) stainless steel whip (except for the PHF-160). These time proven HF antennas are especially designed for maximum efficiency, low SWR, and broad bandwidth. They are power rated at 250 watts P.E.P and built to withstand considerable use. Standard 3/8 x 24 threads. Mix/match models as desired. Total assembled length on all models: 96" (Exception: PHF6: 58"

W3CK

Cable harness 4m coax, PL259/SO239 connectors

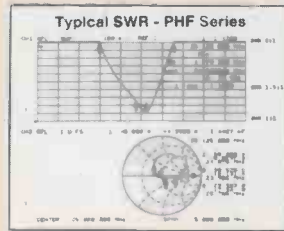
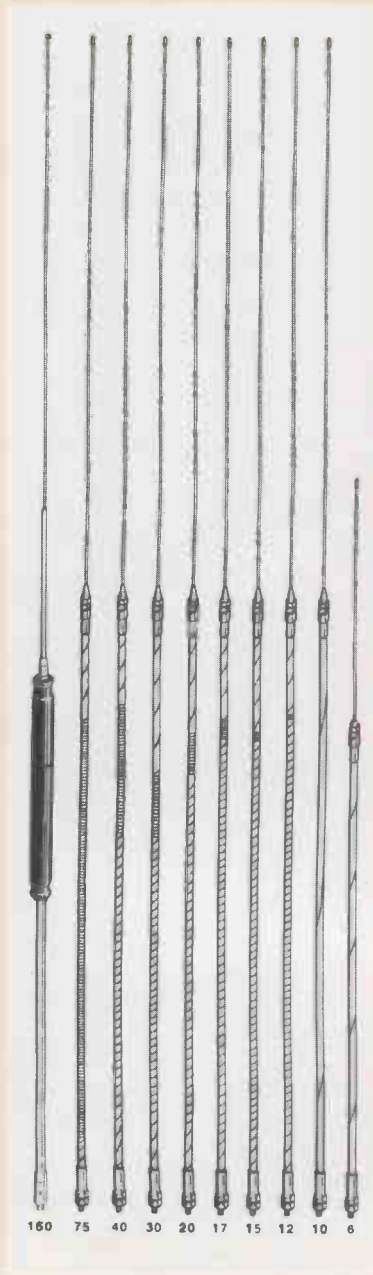
Low Price £18.95 Carr 





W3HM

Hatchback mount. Also fits bootlids.

Low Price £14.95 Carr 




PHF160 £58.95 


PHF80 £24.95 


PHF40 £19.95 


PHF30 £24.95 


PHF20 £19.95 

PHF17 £19.95 

PHF15 £19.95 

PHF12 £19.95 

PHF10 £19.95 

PHF6 £19.95 



W770HB

Dual band mobile whip 1/2 wave on 2m and double 5/8th on 70cm


Low Price £24.95

Carr 

W285

2m 5/8th Wavelength mobile whip with PL259 mount


Low Price £15.95

Carr 



WSM270

Dual band mini mag-mount antenna

Low Price £24.95 Carr 

Chelcom VHF/UHF Antennas

CO-LINEAR CA432358

Specification:

430 - 440 MHz

3 X 5/8 colinear

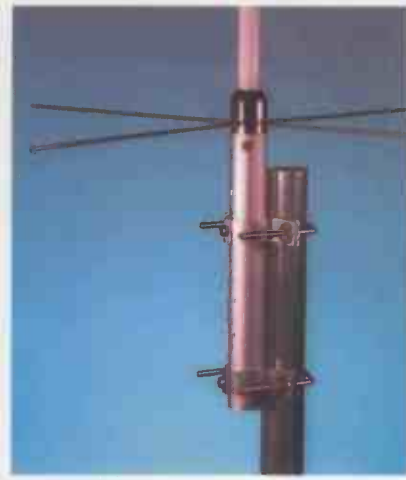
Gain: 8.5db

Impedance:50 Ohms

SWR <1.4:1

Construction:

Fiberglass, stainless steel, heavily chromed brass, with "N" Type socket
Complete with mounting tube, brackets and clamps for 2" dia masting.



COLINEAR CA144258

Specification:

144 - 146 MHz

5/8 over 5/8 colinear

Gain: 6.5db

Impedance:50 Ohms

SWR <1.4:1

Construction:

Fiberglass, stainless steel, heavily chromed brass, with "N" Type socket
Complete with mounting tube, brackets and clamps for 2" dia masting.

Low Price £49.95 



Watson VHF Antennas

A range of dual band antennas covering 2m and 70cm with one triple band antenna incorporating 6m. Ideal for multiband operators without clogging up the skyline with a number of aerials! All antennas are complete with mounting clamps to fit up to 2in dia. masts.

Model	Frequency range	Gain	Length	Power	Weight	Price	Carriage
W2000	50 - 52MHz	2.15dB	2.5m	150W	1.2kg	£89.95	C
	144 - 146MHz	6.2dB		150W			
	430 - 440MHz	8.4dB		150W			
W30	144 - 146MHz	3dB	1.15m	150W	885g	£39.95	C
	430 - 440MHz	6dB		150W			
W50	144 - 146MHz	4.5dB	1.8m	200W	1.2kg	£54.95	C
	430 - 440MHz	7.2dB		200W			
W300	144 - 146MHz	6.5dB	3.1m	200W	1.46kg	£69.95	C
	430 - 440MHz	9.0dB		200W			



ALL **LOWE** PRICES INCLUDE VAT



TO ORDER CALL 01629 580800

Station accessories from Lowe

MFJ259 Antenna Analyzer

Designing or adjusting antennas? The antenna analyzer will save hours!



Connect the antenna feeder to this device and you will instantly find the resonant point and actual VSWR. Designing new antennas couldn't be simpler - no more "cut and try". Problems with your existing antenna? - resolve them quickly as the analyser tells you what's going on! It can be battery powered or mains via a suitable power supply. One turn of a switch and the analyzer becomes a frequency counter. Read SWR on one meter and the other one shows feedpoint resistance. Once you've used it, you'll wonder how you ever managed without it!

Specifications:

Frequency range	1.8 - 170MHz
Aerial input	SO-239
Counter input	BNC
Tuning	Knob reduction drive
Display	LCD 7 decimal places
Gate times	0.01/0.1/1/10 seconds
Size	115 x 175 x 60mm

Low Price £249.95

MFJ-989C

High power! 3kW base station tuner



High powered, no compromise design, that uses high grade components. Ceramic switch selector

1.8MHz to 30MHz	2 coax positions
3kW	Coax by-pass
Standard "T" network	Balanced feeder terminals
PEP and average power readings	Long wire terminal
0-200/0-2kW	Built-in 4:1 balun
VSWR meter	Illuminated meter
Aerial switch	Switched inductor
	270(W) x 375(D) x 115(H) mm

Low Price £369.95

MFJ-941E Versa Tuner II

300 watts base station tuner

The Versa Tuner will "match" coax feed systems, long wires and balanced feeders. VSWR and power levels are shown as matched or in "through" position. Compact, it's an asset in any station.

- 300 watt ATU
- 1.8MHz to 30MHz
- Cross needle meter
- 30/300 watt power meter
- VSWR
- 3 way-antenna selector
- Dummy load socket
- By-pass position
- Illuminated meter (12v external supply required)
- Inductor selector
- Tuning and reactance controls
- Rear earth terminal
- SO-239 and terminals for wires and balanced line
- Internal balun
- Comprehensive instructions with circuit
- 260 x 180 x 70mm



Low Price £129.95

MFJ-949

Match any antenna

300 watt ATU that contains everything needed to match any antenna from 1.8 to 30MHz

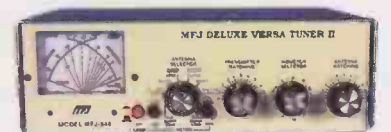
- 300 watt ATU
- 1.8MHz to 30MHz
- Large cross needle meter
- 30/300 PEP power meter
- VSWR
- 3 way-antenna selector
- Dummy load socket
- By-pass position
- Illuminated meter (12v external supply required)
- Inductor selector
- Tuning and reactance controls
- Rear earth terminal
- SO-239 and terminals for wires and balanced line
- Internal balun
- Comprehensive instructions with circuit
- 260 x 180 x 70mm



Low Price £169.95

MFJ-948

Same as MFJ-949 but with cream panel and no dummy load



Low Price £149.95

ALL LOWE PRICES INCLUDE VAT



TO ORDER CALL 01629 580800

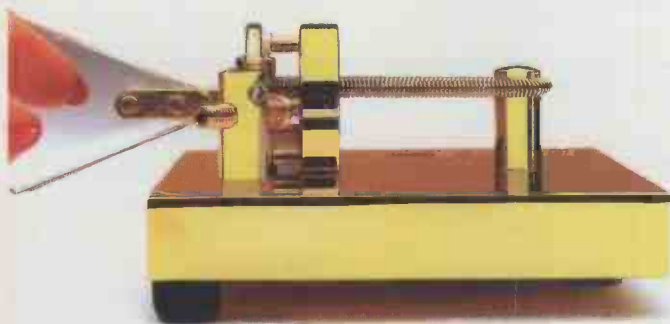
Station accessories from Lowe

BENCHER

Great CW operators need great paddles!

Quality paddles and hand keys offer precise control, reliability and years of trouble free operation. Bencher has been established in the amateur market since 1975 and has become renowned the world-over for quality engineered products.

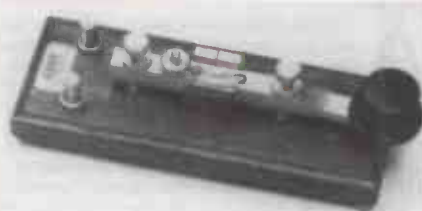
Bencher paddles are offered in two types - the iambic series, and non-iambic ST series. If you are new to using paddles and electronic keyers, select the iambic paddle. If you are accustomed to single lever non-iambic paddles, Bencher ST models will delight you!




Prices

BY1	Iambic paddle; black base	£64.95	B
BY2	Iambic paddle; chrome base	£79.95	B
BY3	Iambic paddle; gold base	£199.99	B
HK1	Hook up kit for Logikey K1	£3.95	B
K1	Logikey K1 electronic keyer	£99.95	C
KB1	Push button bracket for K1 (fits Bencher keys)	£27.95	B
RJ1	Hand key; black base	£59.95	B
RJ2	Hand key; chrome base	£64.95	B
ST1	Single lever paddle; black base	£64.95	B
ST2	Single lever paddle; chrome base	£79.95	B
ST3	Single lever paddle; gold base	£199.99	B

KENT




The Kent Standard morse key, engineered to the highest specification from solid brass. The use of silver contacts and sealed ball race bearings gives lasting and trouble free performance

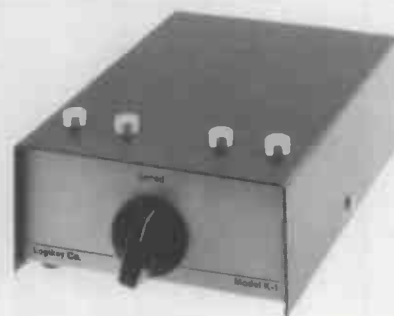
Lowe Price £45.00 

The Kent twin paddle morse key has been designed and engineered to the highest standard, having a solid steel base for stability with the main parts being engineered in brass.




Lowe Price £48.50 

LOGIKEY K1 Keyer



Simple to use, the K-1 Keyer's generous timing tolerances make CW sending a responsive pleasure. And, the K-1 Keyer includes a range of features unmatched by any other keyer at any price. There are no confusing key pads or bewildering arrays of buttons and switches. Instead, simple commands sent through your paddle control the keyer. And, the keyer returns status reports off the air in perfect CW. You will be delighted by the intuitive commands, keyer feedback, and convenient, quick access to keyer functions.

Lowe Price £99.95 

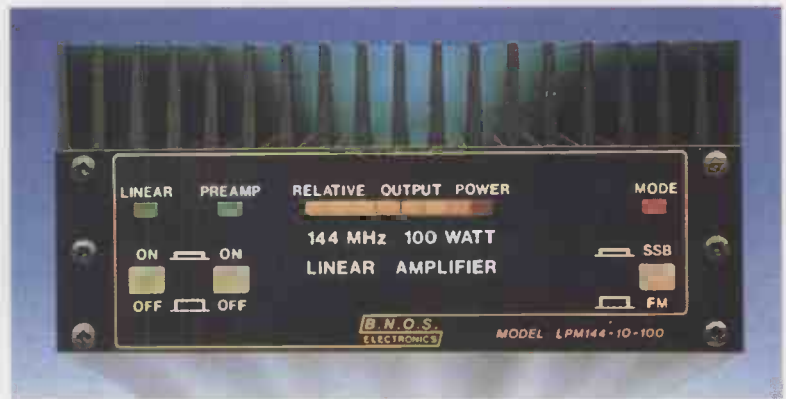
Station accessories from Lowe

BNOS linear amps

VHF and UHF Linear amplifiers

Features

- Linear all mode operation
- Continuous rated output (RMS)
- HARD & RF switched changeover with selectable delay
- Straight-through mode when switched off
- Unique over-drive protection circuit
- Mobile mounting bracket
- Trouble free RF switching at low drive levels
- Positive push-button operation



2 METRES — LINEAR AMPLIFIER Frequency Range Class Of Operation Input Impedance Minimum Input Power Maximum Input Power Recommended Input Power Output Impedance Output Power Insertion Loss (straight through) Power Requirements PRE-AMP (LPM models only) Frequency Range Receive Gain Noise Factor Input Impedance Output Impedance Power Requirements	L&LPM144-1-100 2W RMS 1W RMS 13.8Vdc, 14A +/- 15%	L&LPM144-3-100 144,000MHz to 148,000MHz Class AB1 50ohms unbalanced 500mW RMS 5W RMS 3W RMS 50ohms unbalanced 100W RMS +/- 0.5dB 1.5dB +/- 0.5dB 13.8Vdc, 14A +/- 15% 144,000MHz to 148,000MHz 12dB typical Better than 1dB 50ohms 50ohms 13.8Vdc, 100mA +/- 15%	L&LPM144-10-100 15W RMS 10W RMS 13.8Vdc, 12A +/- 15%	L&LPM144-25-160 30W RMS 25W RMS 160W RMS +/- 0.5dB 13.8Vdc, 20A +/- 15%	L&LPM144-3-180 144,000MHz to 148,000MHz Class AB1 50ohms unbalanced 500mW RMS 5W RMS 3W RMS 50ohms unbalanced 180W RMS +/- 0.5dB 1.5dB +/- 0.5dB 13.8Vdc, 24A +/- 15% 144,000MHz to 148,000MHz 12dB typical Better than 1dB 50ohms 50ohms 13.8Vdc, 100mA +/- 15%	L&LPM144-10-180 15W RMS 10W RMS 180W RMS +/- 0.5dB 13.8Vdc, 24A +/- 15%
70 CMS — LINEAR AMPLIFIER Frequency Range Class Of Operation Input Impedance Minimum Input Power Maximum Input Power Recommended Input Power Output Impedance Output Power Insertion Loss (straight through) Power Requirements PRE-AMP (LPM models only) Frequency Range Receive Gain Noise Factor Input Impedance Output Impedance Power Requirements	L&LPM432-1-50 2W RMS 1W RMS 13.8Vdc, 11A +/- 15%	L&LPM432-3-50 430,000MHz to 440,000MHz Class AB1 50ohms unbalanced 250W RMS 5W RMS 3W RMS 50ohms unbalanced 50W RMS +/- 0.5dB 1.5dB +/- 0.5dB 13.8Vdc, 11A +/- 15% 430,000MHz to 440,000MHz 12dB typical Better than 1dB 50ohms 50ohms 13.8Vdc, 100mA +/- 15%	L&LPM432-10-50 15W RMS 10W RMS 13.8Vdc, 8A +/- 15%	L&LPM432-10-100 430,000MHz to 440,000MHz Class AB1 50ohm unbalanced 250mW RMS 15W RMS 10W RMS 50ohms unbalanced 100W RMS +/- 0.5dB 1.5dB +/- 0.5dB 13.8Vdc, 20A +/- 15% 430,000MHz to 440,000MHz 12dB typical Better than 1dB 50ohms 50ohms 13.8Vdc, 100mA +/- 15%		

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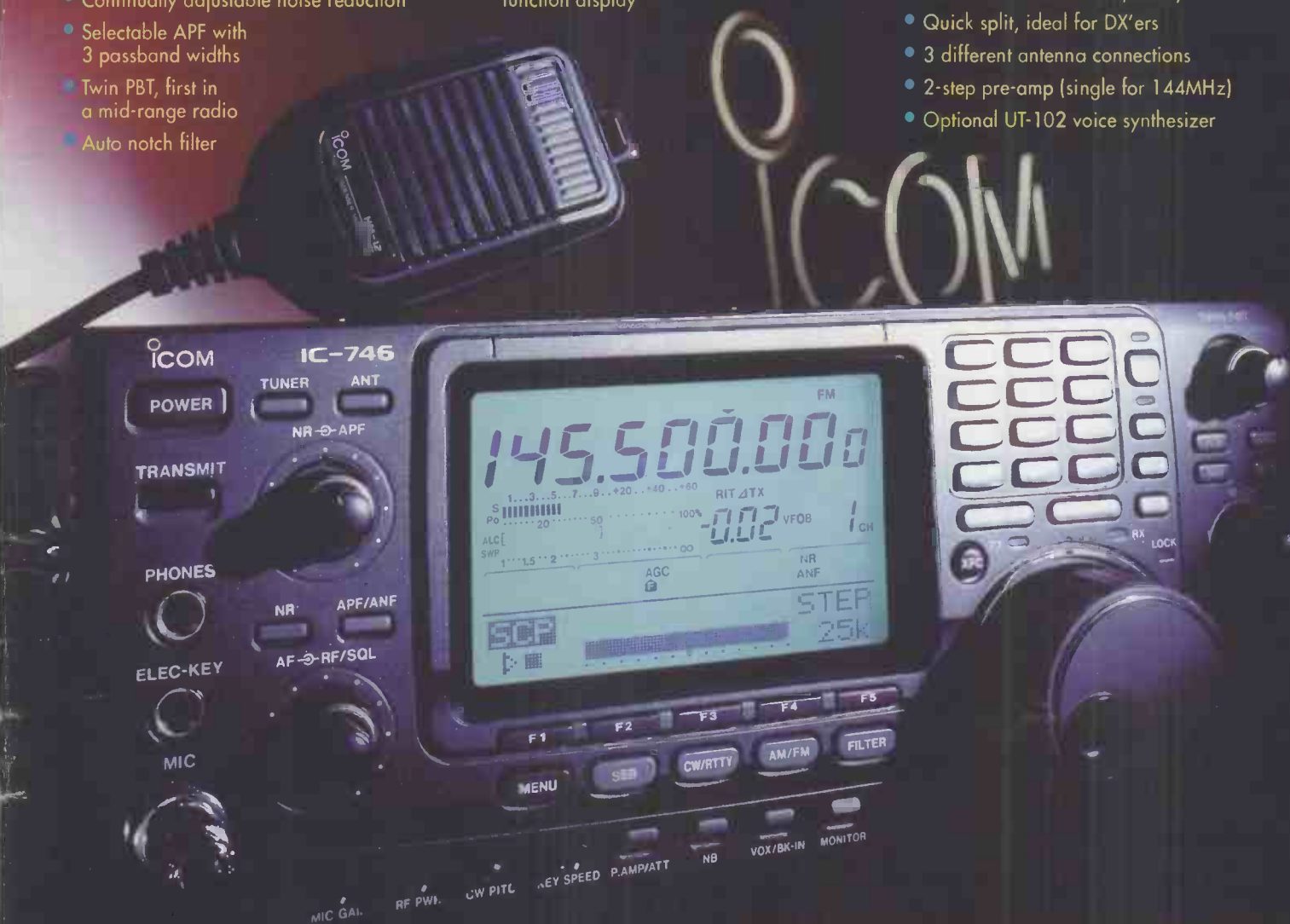
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