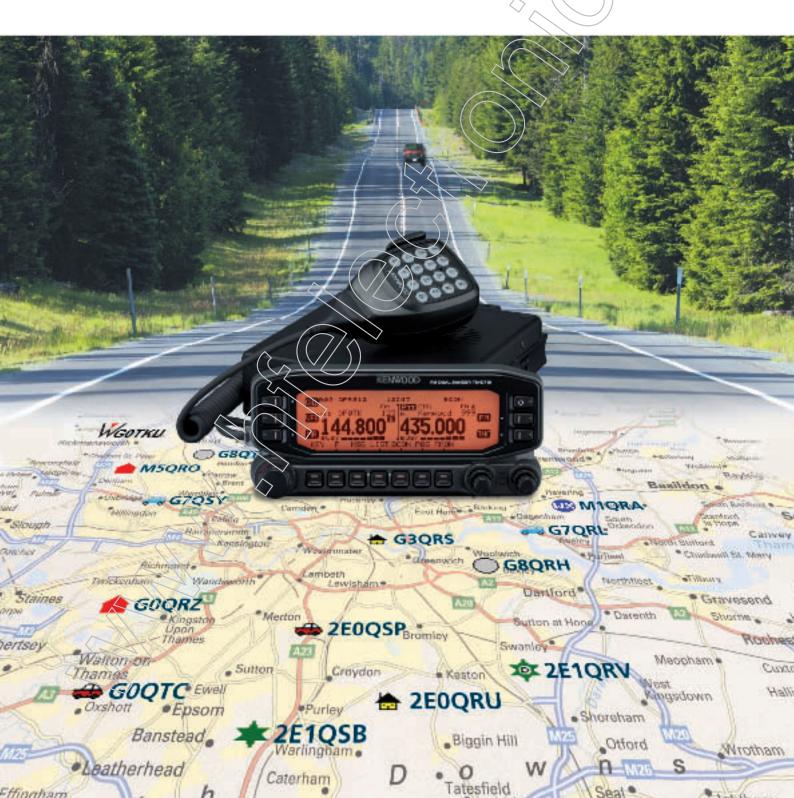


TM-D710E

Multi Communicator 144/430MHz FM DUAL BANDER

With Kenwood's advanced TM-D710E you can harness today's most exciting developments in radio communications, including EchoLink[®], AX.25, and the latest features of APRS[®].



Peerless Pathfinder



BUILT-IN 1200/9600BPS TERMINAL NODE CONTROLLER (TNC) COMPLIANT WITH AX.25 PROTOCOL

The built-in TNC is compatible with the AX.25 protocol, enabling easy access to APRS functions. For 1200/9600bps packet communications, simply hook up the TM-D710E to your PC.

APRS® READY (AUTOMATIC PACKET/ POSITION REPORTING SYSTEM)

Cooperating with Bob Bruninga (WB4APR), who first developed APRS, Kenwood has developed system firmware for the TM-D710E that enables easy APRS operation without requiring a PC. When connected to a GPS receiver this radio will display positional information, including direction and distance, and when hooked up to a weather observation device it can display temperature and rainfall information. All of this data can be exchanged with other stations. The information can also be output to a PC for map display using commercially available APRS application software.





"APRSdos" was written by WB4APR (Bob Bruninga)



"APRS+SA" was written by KH2Z (Brent Hildebrand)

Positional/directional data: With an NMEA-0183 compatible GPS receiver, in addition to current latitude, longitude and altitude, information is available on the distance, speed and heading of a mobile station.



Meteorological information: The TM-D710E can be connected to Peet Bros or Davis weather stations for access to wind speed/direction, temperature, rainfall, humidity and barometric pressure data.





Station list: This stores a maximum of 100 stations – including fixed base, mobile, object and weather stations – and offers filtering so you can select from the different types. You can also sort them by call sign, reception time and distance from your own station.

- Versatile messaging:
- 100 messages (up to 67 characters each)
- Status: 4 x 42 characters (max.), 1 x 32characters (max.)
- User phrases (preset for rapid message input): 4 types (up to 31 characters each)
- Special call function: Immediate notification when a message is received from a designated station. The APRS system is capable of transmitting e-mail, so you can send (not receive) e-mail messages from the TM-D710E.
- Wide-range of functions available from more than 60 APRS menus:
- QSY function (Exchange operating frequency via APRS)
- Auto Message Reply
- Digipeater capability
- Packet filter

New-N Paradigm29 Graphic icons display

Decay Algorithm

- 3 Grid square locators
- and more...

SEPARATE PANEL WITH EXTRA-LARGE 2-COLOR SWITCHABLE BACKLIGHT LCD & MULTIFUNCTION KEY DISPLAY

The TM-D710E has a separate control panel with an extra-large display that clearly identifies the multifunction keys for easy operation. To maximize visibility, the backlight color can be switched between warm amber and cool green. And two different stands are supplied: one for on-dash installation, and the other for fixed stations.



HIGH RF POWER OUTPUT (50W)

The TM-D710E provides an impressive 50 watts of RF power (VHF & UHF), plus a choice of High/Mid/Low output.

DUAL RECEIVE ON SAME BAND (VxV, UxU)

In addition to simultaneous receive on both VHF and UHF bands, this radio can receive two frequencies on the very same band. This means, for example, that you can have both the call channel and local channel, or the repeater channel and local channel, on the same band.

1,000 MULTIFUNCTION MEMORY CHANNELS

There are 1,000 split memory channels for storing essential data – such as transmit and receive frequencies, frequency step, and tone frequency – plus an additional 10 for programmable scan. You can identify each channel with up to 8 alphanumeric characters (Memory Name function). Additionally,



memory data can be edited and stored on a PC using the optional PG-5G programming interface cable and MCP-2A Memory Control software (a free download from the Kenwood website*).

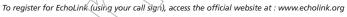
*www.kenwood.com/i/products/info/amateur/software_download.html

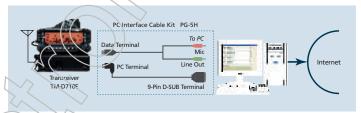
MULTIPLE SCAN & VISUAL SCAN

As well as VFO scan, program scan, MHz scan, memory scan and call scan, the TM-D710E offers memory bank scan: the 1,000 channels are grouped into 10 banks for selective scanning. Also featured are scan esume (time-operated, carrier-operated, and seek), memory channel lockout, tone scan, CTCSS scan, and DCS scan. Additionally, using the S meter on the large LCD you can visually display the signal strength (S0~S7) of stations within the scanned range.

EchoLink[®] Sysop MODE FOR NODE TERMINAL OPERATION

When the TM-D710E is connected to a PC (with the necessary Windowscompatible software installed) using the PG-5H option, it can operate as a node terminal for EchoLink. EchoLink connects radio amateurs through the Internet using VoIP technology: any transceiver with access to a node can connect to any other in the world as long as it too has node access. It is also possible to access the EchoLink network directly from a PC.





EchoLink[®] MEMORY (AUTOMATIC DIALER)

Up to 10 DTMF memory channels dedicated to EchoLink can store call signs (or conference names) and Node Numbers. Memory Control is also possible using a PC with the MCP-2A software.

Other Features

- Wide reception:118-524MHz, 800-1300MHz
- MC-59 16-Key Hand Microphone with backlighting
- Programmable memory capable of storing 5 independent operating profiles
- DCS (Digital Code Squelch) with 104 selectable codes
- Separate VOL/SQL for A & B Bands
- Packet Monitor
- DX Cluster
- Waypoint Data Output
- Clock (date/time)
- 6-pin Mini-DIN Socket for External TNC
- 8-pin Mini-DIN Socket for PC
- Connection (optional programming cable PG-5G or PG-5H required for PC connection)
- Programmable Function Keys
- Band Mask
- Call Channel
- S-meter Squelch & Hysteresis Timer
- Monitor Function

- Mute3-hour Auto Power Off
- MHz Mode
- Selectable Frequency Step
- Shift Function
- Repeater Offset (selectable)
- Reverse
- Auto Repeater Offset
- (ON/OFF, VHF only) Automatic Simplex Checker
- DTMF Memory (10 channels, 16 digits)
- DTMF Remote Control
- Time Out Timer
- Key Lock
- Power-on Password
- Memory Shift
- Programmable VFO
- Beep On/Off, Volume Control
- Mic Program Function
- Channel Display Mode
- Power-on Message
- LCD Brightness Control, Auto Brightness
- Switch to External Speaker
- Reset (VFO, PART, PM, FULL)

Optional Accessories





MC-59 16-Key Hand Microphone

PG-2N DC-Power Cable











DC Line Noise Filter

PG-5G Programming Interface Cable

PG-3B



PG-5H PC Interface Cable* *For EchoLink node terminal operation



SP-50B External Speaker



Microphone Plug Adapter

Supplied Accessories



■ Microphone ■ DC power cable ■ Cable with a 2.5 mm 3-conductor plug (for GPS) I Modular plug cable (for PANEL) ■ Line filter ■ Microphone hanger Mounting bracket Panel holder Panel bracket Base stand Screw set Instruction manual (English / Spanish & French / German, Italian & Dutch) CD-ROM (For a detailed explanation on the operation) Warranty card

Refer to the Acrobat (PDF) file on the supplied CD-ROM for a detailed explanation of TM-D710E setup and operation. To read the PDF file you may need to install Adobe Reader® on yous PC. Adobe Reader® is a registered trademark of Adobe Systems Incorporated.

Not all accessories are available in all markets. For availability, contact your nearest dealer.

Typical Sensitivity (excluding VHF/UHF Amateur Bands)

| | A B | and | B Band |
|-----------------|------------------|--------------|----------------|
| | FM: 12dB SINAD 🤇 | AM: 10dB S/N | FM: 12dB SINAD |
| 118~135.995MHz | 0.32 µV | 0.40 µV | - |
| 136~173.995MHz | 0.32 µV | 0.40 µV | 0.32 µV |
| 174~229.995MHz | 0.40 µV | 0.50 µV | 0.40 µV |
| 230~299.995MHz | 5.6 µV | 5.6 µV | 5.6 µV |
| 300~349.995MHz | 1.0 μV | <1.0 μV | 1.0 μV |
| 350~399.995MHz | 0.56 µv | 0.56 µV | 0.56 μV |
| 400~499.995MHz | 0.28 µV | 0.36 μV | 0.28 µV |
| 500~523.995MHz | -9.56 μV | 0.71 μV | 0.56 μV |
| 800~1239.99MHz | | - | 7.08 μV |
| 1240~1299.99MHz | | - | 2.24 μV |
| | | | |

Listen to the Puture

Kenwood has always connected with people through sound. Now we want to expand the world of sound in ways that only Kenwood can, listening to our customers and to the pulse of the coming age as we head toward a future of shared discovery, inspiration and enjoyment.

Kenwood Electronics UK Limited

Kenwood House, Dwight Road, Watford, Herts, WD18 9EB, United Kingdom www.kenwood-electronics.co.uk

Specifications

| TM-D710 | E | |
|--|--|--|
| GENERAL | | |
| Frequency Rang Band A & B | e TX | 144 - 146 MHz 430 - 440 MHz |
| Frequency Rang Band A Band B | e RX RX | 118 - 524 MHz 136 - 524 MHz 800 - 1300 MHz |
| Mode | | F1D, F2D, F3E |
| Antenna Imped | | 50 Ω |
| Power Requiren | nent | DC13.8V ±15% |
| Operating Temperature Ra | nge | -20°C~ +60°C |
| Frequency Stabi | lity | Within ±5ppm (-10°C~ +50°C) |
| Current Drain Transmit | VHF HI LOW UHF HI LOW | Less than 13.0A Less than 5.5A Less than 4.0A Less than 13.0A Less than 6.5A Less than 5.0A |
| Receive | $\mathcal{A}(\mathcal{N})$ | Less than 1.2A (at 2W audio output) |
| Dimensions (W Without prot With protrus Weight (approx | usions Panel Body ions Panel Body | 155 x 70 x 38 mm 140 x 43 x 142 mm 156 x 71 x 56 mm 140 x 44 x 158 mm 0.3 kg 1.2 kg |
| TRANSMITT | ER | |
| RF Output Powe | | |
| Hì MID LOW | VHF/UHF VHF/UHF VHF/UHF | 50W / 50W Approx. 10W / Approx. 10W Approx. 5W / Approx. 5W |
| Modulation | | Reactance Modulation |
| Maximum Frequ Deviation | iency | Within \pm 5kHz |
| Supurious Radia | ation | Less than -60dB |
| Modulation Distortion (300Hz ~ 3kHz) | | Less than 3% |
| Microphone Impedance | | 600 Ω |
| RECEIVER | | |
| Circuitry | | Double Super Heterodyne |
| Intermediate Frequency 1st IF (A Band/B Band) 2nd IF (A Band/B Band) | | 45.05MHz / 49.95MHz 455kHz / 450kHz |
| Sensitivity | VHF/UHF | Less than 0.16 µV |
| Squelch Sensitiv | vity VHF UHF | Less than 0.1 μV Less than 0.1 μV |
| Selectivity | -6dB -50dB | More than 11kHz Less than 30kHz |
| Audio Output | | More than 2W (at 5% distortion) |

These specifications are guaranteed for Amateur Bands only.

APRS[®] is a registered trademark of Bob Bruninga. Echolink[®] is a registered trademark of Synergenics, LLC.

