

KENWOOD

TM-D750E

144 / 430 MHz DIGITAL DUAL BANDER

THE ULTIMATE DUAL BANDER



Driving Connectivity to New Heights in Mobile Communications

**APRS
&
DIGITAL**

KENWOOD's multiband mobile transceiver: Advanced APRS® and Digital Voice capabilities plus Built-in Wireless LAN take your operating experience to the next level.

APRS

Refined APRS and DIGITAL. Built-in Wireless LAN Enables Direct Mode.

D-STAR

Fully compatible with the APRS protocol, the TM-D750E enables real-time, two-way data communications from GPS positional information sharing and text messaging to receiving signals from satellite constellations including ISS. In addition, its built-in KISS TNC supports infrastructure applications such as standalone digipeater operation and IGate connectivity with a PC-capabilities that reflect KENWOOD's deep expertise in APRS.

Informative, Large Color LCD Display

The TM-D750E features a brightness-adjustable 3.45-inch TFT color display (320 x 240 pixels, RGB) that is easy-to-see even under sunlight.



A typical view of the front LCD

Each time a beacon is received, an interrupt screen appears displaying various details, including the packet path, visualizing RF traffic in real time and highlighting the local APRS infrastructure. What's more, at-a-glance relative direction display makes it easy to grasp the information of other stations relative to your own station in real-time. Weather station data can be displayed with colorful icons for easy recognition.

Visual Scan with Waterfall

In addition to showing signal levels currently being received during a scan, history can also be displayed in a vivid, color-rich waterfall format.



Switch to Preset APRS CH

When the APRS function is activated, the transceiver automatically switches to the preset APRS channel, such as 144.39 MHz, eliminating the need for setting up manually.

APRS Menu Settings

A variety of APRS features such as Smart-Beaconing, decay algorithm, proportional pathing, and APRS voice, can be configured with ease from the intuitive menu system.

Station List and Object Functions

Up to 100 stations can be stored, including mobile stations, base stations, weather stations, and objects. You can also filter and sort out the types of stations received. Local information can be transmitted as an "object."

Standalone Digipeater Function

The TM-D750E is capable of operating as a standalone digipeater not only for permanent use at fixed locations but also as a temporary solution in outdoor scenarios such as atop a hill, extending communication range into weak signal areas.



A variety of intuitive displays for easy grasp of information



Own station/ other station relative display: Shows the position of own station, and relative distance, direction, heading, and speed of other stations



Weather station data including Rainfall, Temperature, Wind direction, Wind speed, Barometric pressure, and Humidity



An Interrupt screen showing Packet Path

QSY Function

FM or D-STAR voice channels can be set in no time based on frequency or repeater information embedded in APRS beacons to enable seamless QSY and support the APRS concept of two-way communications.

Text Messaging

Real-time messaging is possible between two APRS stations. Messages can be entered manually or selected from up to 20 user-defined preset phrases, each up to 32 characters.

KISS Mode TNC

The built-in KISS mode TNC for PC connection enables 1200/9600 bps packet communications in APRS operation and infrastructure applications via USB or Bluetooth®.

The TM-D750E supports D-STAR, the amateur radio digital communications protocol that provides both voice and data modes. Both local and overseas QSOs are supported through a number of access methods, including simplex, single repeater, gateway communication or other accessing methods through a network of repeaters and reflectors. The flexibility of D-STAR operation is enhanced even more with Direct Mode via built-in wireless LAN.

D-STAR Compatibility

The D-STAR digital communication protocol featured on the TM-D750E is promoted by the Japan Amateur Radio League (JARL), enabling easy voice and data communication both locally and around the world.

Simple Operation in D-STAR Repeater (DR) Mode

Selecting an access repeater from the preprogrammed list simplifies setup and operation. The TM-D750E also features a direct reply function that enables quick responses after pressing the PTT during gateway communications, along with an icon-based display that confirms accessibility during kerchunk and gateway use.

Simultaneous Reception of Two Digital Voice Channels

Two digital voice channels can be received simultaneously when band A is in DV/DR mode, Direct mode, Reflector Terminal Mode, or Repeater Terminal Mode, and band B is in DV/DR mode. This enables users to

monitor two nearby D-STAR repeaters at the same time in DR mode. Moreover, users can access a D-STAR reflector or a remote D-STAR repeater in Direct mode on Band A, while monitoring a nearby D-STAR repeater on Band B, to further expand operational flexibility.

D-STAR Repeater Monitor

Ongoing communications on remote D-STAR repeaters can be audibly monitored over the Internet using the built-in wireless LAN.

Updating D-STAR Repeater List

The latest D-STAR repeater list can be downloaded from the KENWOOD website. Updates can be easily applied from a PC connected via USB or Bluetooth®, or using a microSD/SDHC card.

Built-in GPS Module / Antenna

High-performance GPS module with patch antenna supports GPS, Galileo, QZSS, and SBAS, providing location data for APRS and D-STAR, with GPS logging and automatic time correction.

Versatile Interface with Standard Compatibility

Equipped with USB Type-C® connectors and microSD/SDHC card slots on both the operation panel and main unit, each supporting common and individual functions. Bluetooth® (HSP, SPP) is also supported for wireless connectivity.



More Convenience with Free PC Software

The free MCP-D750 Memory Control Program is available for download from the KENWOOD website for Windows PC, enabling easy management of memory channels and various other settings through a user-friendly on-screen interface.

Enhanced Audio Features

Operation Panel Featuring Built-in Speaker

The TM-D750E delivers clear, easy-to-hear voice communications through expertly tuned audio right from the operation panel's built-in speaker (3W output). It also features a DSP-based audio equalizer with a 5-band RX EQ (0.4–6.4 kHz) and a 4-band TX EQ (0.4–3.2 kHz), allowing you to fine-tune the sound to suit your preferences.

Powerful Voice Guidance

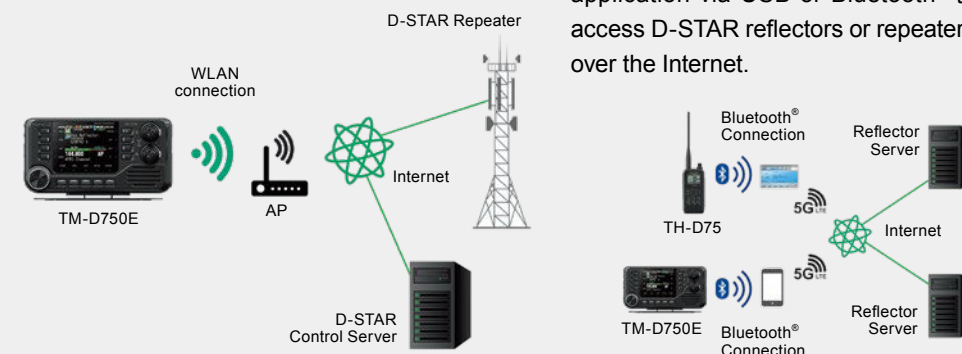
Over 900 audio prompts provide clear and intelligible spoken information on operating status shown on the display. Reading of callsigns using the phonetic code is also supported. Voice guidance speed is adjustable at four levels.

WLAN Connection to D-STAR Repeaters/Reflectors

Direct Mode

Access to D-STAR repeaters and reflectors over the Internet got easier than ever with the built-in WLAN (wireless LAN) **Direct Mode**. As the name suggests, this mode connects directly without the need for nearby repeaters or external devices.

When there are wireless LAN connectivity limitations, **Reflector Terminal Mode** or **Repeater Terminal Mode** can be used to connect Windows PC or Android device running a compatible third-party application via USB or Bluetooth® to access D-STAR reflectors or repeaters over the Internet.



MORE FEATURES

- DV fast data mode in D-STAR • 1000 memory channels • 1500 repeater lists • 30 hotspot lists • 3-step RF output power (144/430MHz: 50/10/5W) • Separate VOL/SQL for A and B bands • 5-channel programmable memory • Full-duplex operation between VHF and UHF • Fixed-band Repeater • Voice recording function (microSD/SDHC) • Voice messaging (4 channels) • Communication log (microSD/SDHC) • Scan modes: Band, MHz, Program, Memory, Memory Group, Call, Priority, D-STAR Repeater • Memory channel lockout • 50 CTCSS frequencies / 104 DCS codes • Cross-tone support • Meter-type display • Frequency direct input • DTMF memory (10 channels) • EchoLink node operation • Customizable power-on message and bitmap image • APRS packet monitor • Waypoint output • Date/time display • Frequency step switching • Shift • VOX • Auto repeater offset • Monitor • Auto power-off • Key lock • APRS lock • Memory shift • Key beep on/off • Programmable function key • Display language selection • 3-level mic sensitivity • 9-level LCD brightness • Reset (VFO, Partial, PM, Full)

PRODUCT CONFIGURATIONS

- Operation Panel



- Operation Panel with the Main Unit



SPECIFICATIONS

GENERAL		TM-D750E
Frequency Range	TX	144 – 146, 430 – 440 MHz
	Band A: RX	108 – 174, 410 – 470 MHz
	Band B: RX	108 – 524 MHz
Mode	TX	F1D, F2D, F3E, F7W
	RX	F1D, F2D, F3E, F7W, A3E
Antenna Impedance		50 Ω
Power Requirement		DC 11.7 – 15.9V (Std: DC 13.8V)
Operating Temperature Range		-20°C – +60°C (-4°F – +140°F)
Frequency Stability		Within ±2.0 ppm (-20°C – +60°C, -4°F – +140°F)
Current Drain (TX: DC 13.8V)		
144 / 430 MHz Band	High	13.0 A / 13.0 A
	Mid	6.5 A / 6.5 A
	Low	5.0 A / 5.0 A
Current Drain (RX: Dual band)		Less than 1.3 A (at rated power)
Dimensions (W x H x D)	Projections not included	
	Operation Panel	183.3 x 93 x 36.8 mm 7.22 x 3.66 x 1.44 in
	Body	140 x 43 x 180 mm 5.51 x 1.69 x 7.09 in
Weight (net)		370 g / 1310 g
	Operation panel / Body	13.1 oz / 2.89 lb
RECEIVER		TM-D750E
Circuitry	F1D, F2D, F3E, F7W	Double Super Heterodyne
	A3E	Triple Super Heterodyne
Intermediate Frequency		
	1st IF (Band A / Band B)	57.15 MHz / 58.05 MHz
	2nd IF (Band A / Band B)	450 kHz / 450 kHz
	3rd IF (A3E, Band A / Band B)	10.8 kHz / 10.8 kHz
Sensitivity (Typ.)		
• Amateur Band		
Band A (MHz)	FM: 12 dB SINAD	
	FM / NFM: 144	0.16 µV / 0.20 µV
	FM / NFM: 430	0.16 µV / 0.20 µV
	DV: PN9/GMSK 4.8 kbps, BER 1%	
	144 / 430	0.22 µV / 0.22 µV
	AM: 10 dB S/N	0.50 µV
Band B (MHz)	FM: 12 dB SINAD	
	FM / NFM: 144	0.16 µV / 0.20 µV
	FM / NFM: 430	0.16 µV / 0.20 µV
	DV: PN9/GMSK 4.8 kbps, BER 1%	
	144 / 430	0.22 µV / 0.22 µV
	AM: 10 dB S/N	0.50 µV

RECEIVER (cont'd)		TM-D750E
Sensitivity (Typ.)		
• Except for Amateur Band		
Band A / B (MHz)	AM: 10 dB S/N	
	118 – 174	0.40 µV / 0.40 µV
	216 – 240	– / 0.50 µV
	410 – 470	0.40 µV / 0.40 µV
Band A / B (MHz)	FM: 12 dB SINAD	
	118 – 144	0.32 µV / 0.32 µV
	146 – 175	0.32 µV / 0.32 µV
	200 – 222	– / 0.40 µV
	225 – 240	– / 0.40 µV
	380 – 400	– / 0.56 µV
	400 – 430	0.28 µV / 0.28 µV
	440 – 490	0.28 µV / 0.28 µV
Squelch (Typ)	Band A / B	0.10 µV / 0.10 µV
Spurious Rejection	144 MHz: A / B	60 dB or more / 60 dB or more
	430 MHz: A / B	60 dB or more / 60 dB or more
IF Rejection	A / B	60 dB or more / 60 dB or more
Channel Selectivity	-6 dB	12 kHz or more
	-50 dB	30 kHz or less
Audio Output	8 Ohm load	3 W or more
TRANSMITTER		TM-D750E
TX Power Output	High	50 W
	Mid	10 W
	Low	5 W
Modulation	FM	Reactance Modulation
	DV	GMSK Reactance Modulation
Modulation Deviation	FM	±5.0 kHz
	FMN	±2.5 kHz
Spurious Emissions		-60 dBc or less
Modulation Distortion	300 Hz – 3 kHz	3% or less
Microphone Impedance		600 Ω
GPS		
Satellite Constellations		GPS, QZSS, Galileo, SBAS
Wireless Connection		
Bluetooth		Version 5.0, HSP/SPP
WLAN Frequency Range		2.4 GHz, 5 GHz 802.11 a/b/g/n/ac
WLAN Security		WPA2-PSK (AES), WPA2/WPA3 Transitional, WPA3-SAE

Except for sensitivity, these specifications are guaranteed for Amateur Bands only. JVCKENWOOD follows a policy of continuous advancement in development; for this reason, specifications, and design may change without notice.

OPTIONAL ACCESSORIES

KHS-56BT
Wireless Headset



PG-2N
DC Power Cable
(2 m / 6.6 ft)*



PG-3B
Noise Filter



MC-62
Keypad Microphone
(16-key)*



*Same as supplied accessory

Specifications, design, and availability of accessories may vary due to technological advancements.
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