

KENWOOD

TM-281E

144 MHz FM Transceiver

Wild at Heart

On or off the road, Kenwood's TM-281E is a mobile radio you can always count on. As tough as nails, this MIL-STD-compliant transceiver delivers powerful performance, excellent audio clarity, and a host of advanced features. It offers superb operating ease day or night thanks to the large backlit LCD and illuminated keys. So the next time you take off, take the TM-281E.



RUGGED, COMPACT CONSTRUCTION

The TM-281E is tough enough for off-road assignments: it meets the strict U.S. Department of Defense MIL-STD 810 C, D, E, F & G environmental standards for vibration and shock. Installation is easy due to its compact dimensions: 160 (W) x 43 (H) x 126 (D)* mm .

* Total depth of 170.5 mm with protrusion



HIGH POWER OUTPUT (65W)

Even with its compact size, the TM-281E delivers up to 65 watts – the sort of RF power you want in the wilderness – with a choice of High/Low output. A DTMF microphone is also supplied as standard.

ALPHANUMERIC LCD AND ILLUMINATED KEYPAD

The vivid amber LCD display comes with a 32-step brightness control to suit any ambient light conditions. It displays up to 6 large alphanumeric characters. The front panel and microphone keypads are also illuminated for ease of use.



Memory name

Menu Mode

Power-on Message

IMPRESSIVE FRONT SPEAKER

The large oval speaker 58 x 35 mm mounted in the front ensures every message is heard loud and clear.



Specifications

		TM-281E
GENERAL		
Frequency Range	TX RX	144 - 146 MHz 136 - 174 MHz
Mode		F3E (FM)
Power Requirement		13.8 V DC ±15 %, negative ground
Current Drain	Transmit Receive	Less than 14 A (High), less than 8 A (Low) Less than 1 A
Operation Temperature Range		-20 °C ~ +60 °C
Antenna Impedance		50 ohms
Microphone Impedance		600 ohms
Frequency Tolerance		±2.5 ppm (-20 °C ~ +60 °C)
Dimensions (W x H x D), (Projections included)		160 x 43 x 126 mm 161 x 43 x 170.5 mm
Weight		1.13 kg
TRANSMITTER		
RF Power Output	Hi / Lo	65 W / 25 W
Modulation		Variable reactance modulation
Maximum Frequency Deviation		Wide: ±5 kHz, Narrow: ±2.5 kHz
Modulation Distortion		Less than 3 % (300 Hz - 3 kHz)
RECEIVER		
Circuitry		Double super heterodyne
Intermediate	1st IF 2nd IF	49.95 MHz 450 kHz
Sensitivity (12dB SINAD)		Less than 0.18 µV (Narrow: less than 0.22 µV)
Squelch Sensitivity		Less than 0.1 µV
Selectivity	-6 dB -60 dB	More than 12 kHz (Narrow: more than 10 kHz) Less than 30 kHz (Narrow: less than 24 kHz)
Audio Output Power		More than 2 W (5 % distortion)

Specifications are subject to change without notice, due to advancements in technology.

MEMORY NAME FUNCTION

Up to 100 memory channels can be identified with a maximum of 6 alphanumeric characters each. (200 channels are available if the memory name function is not used.)

200 MEMORY CHANNELS PLUS 1 CALL-CHANNEL

Each of the memory channels can be used to store transmit and receive frequencies independently. Additionally, memory data can be edited and stored on a computer*.

*Requires USB Programming Cable KPG-46U, and Memory Control Software MCP-1A (Ver. 3.0 or later); consult your local dealer for details on purchasing these options.

MULTIPLE SCAN FUNCTIONS

Included as standard are VFO scan, memory scan, call scan, Tone/CTCSS scan and DCS scan – with TO (Time-operated), CO (carrier-operated) and seek scan resume modes. Also priority scan is available to check the Priority channel every 3 seconds.

CTCSS & DCS ENCODER/DECODER

The built-in CTCSS and DCS encoder/decoder covers 42 CTCSS sub-tone frequencies and 104 DCS sub-tone frequencies.

OTHER FUNCTIONS

■ Power-on Message ■ Wide/Narrow Deviation Selection (per channel) ■ 1750 Hz Tone Burst ■ Automatic Simplex Checker ■ Reverse Function ■ Auto Repeater Offset ■ Beep On/Off ■ Auto Power Off ■ Time-Out Timer ■ Channel Display Mode ■ Busy Channel Lockout ■ Memory Channel Lockout ■ MR-shift ■ Direct Frequency Entry ■ Key Lock

Optional Accessories

- KMC-30 Microphone
- MC-59 Keypad Microphone
- MC-60A Desktop Microphone
- PG-2N DC Power Cable
- PG-3B DC Line Noise Filter
- PS-60 DC Power Supply
- SP-50B External Speaker
- MJ-88 Microphone Plug Adapter
- KPG-46U USB Programming Cable (USB driver can be downloaded from the Kenwood website)
- MCP-1A (Ver.3.0 or later) Memory Control Software (available free for downloading from the Kenwood website)

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

Applicable MIL-STD

MIL-STD	Method / Procedures				
	810C	810D	810E	810F	810G
Vibration	514.2/Proc. VIII, X	514.3/Proc. I Category 8	514.4/Proc. I Category 8	514.5/Proc. I Category 20	514.6/Proc. I Category 20
Shock	516.1/Proc. I, II, V	516.3/Proc. I, IV	516.4/Proc. I, IV	516.5/Proc. I, IV	516.6/Proc. I, IV

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