

KENWOOD

Listen to the Future



TM-281A

144 MHz FM Transceiver

Whatever the mission, wherever you go, Kenwood's TM-281A is a radio you can count on. This compact transceiver delivers powerful mobile performance and such advanced features as multiple scan functions and memory names. High-quality audio is assured by the large speaker. Naturally, MIL-STD compliant toughness ensures rugged reliability. And operating ease is second to none: illuminated keys and a large LCD with adjustable backlighting make for user-friendly operation day or night.

RUGGED, COMPACT CONSTRUCTION

The TM-281A 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 (65 W)

Even with its compact size, the TM-281A delivers up to 65 watts – the sort of RF power you want in the wilderness – with a choice of High/Low output. A hand 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 keypad is 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.

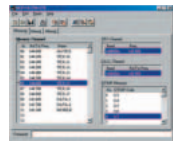
MEMORY NAME FUNCTION

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



Options



■ **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



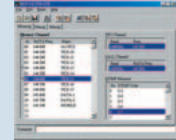
■ **KPG-46U**
USB Programming Cable
(USB driver can be downloaded from the Kenwood website)



■ **SP-50B**
External Speaker



■ **MJ-88**
Microphone Plug Adapter



■ **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.

Specifications

TM-281A

GENERAL

Frequency Range	
TX	136 - 174 MHz
RX	136 - 174 MHz
Mode	F3E (FM)
Power Requirement	13.8 V DC \pm 15 %, negative ground
Current Drain	
Transmit	Less than 14 A (High), less than 8 A (Low)
Receive	Less than 1 A
Operation Temperature Range	-20 °C ~ +60 °C
Antenna Impedance	50 Ω
Microphone Impedance	600 Ω
Frequency Tolerance	\pm 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

Kenwood follows a policy of continuous advancement in development. For this reason specifications may be changed without notice.

TM-281A

TRANSMITTER

RF Power Output Hi / Lo	65 W / 25 W
Modulation	Variable reactance modulation
Maximum Frequency Deviation	Wide: \pm 5 kHz, Narrow: \pm 2.5 kHz
Modulation Distortion	Less than 3 % (300 Hz - 3 kHz)

RECEIVER

Circuitry	Double super heterodyne
Intermediate	
1st IF	49.95 MHz
2nd IF	450 kHz
Sensitivity (12 dB SINAD)	Less than 0.18 μ V (Narrow: less than 0.22 μ V)
Squelch Sensitivity	Less than 0.1 μ V
Selectivity	
-6 dB	More than 12 kHz (Narrow: more than 10 kHz)
-60 dB	Less than 30 kHz (Narrow: less than 24 kHz)
Audio Output Power	More than 2 W (5 % distortion)

Applicable MIL-STD

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

Listen to the Future

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.

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