# **KENWOOD**



On or off the road, KENWOOD's TM-281A 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-281A.

**KENWOOD** 

M.IN

MR

145.970 

VFO

TM-281

TONE

CALL

MENU

F

199

SQL

REV

### 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: 6.30 (W) x 1.69 (H) x 4.69 (D) inches (160 x 43 x 126 mm)\*.



#### HIGH POWER OUTPUT (65W)

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 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.



#### **IMPRESSIVE FRONT SPEAKER**

The large oval speaker (2.28 x 1.38 inches or 58 x 35 mm) mounted in the front ensures every message is heard loud and clear.



#### **Specifications**

		TM-281A		
GENERAL				
Frequency Range TX RX		144 - 148 MHz 136 - 174 MHz		
Mode		F3E (FM)		
Power Requirement	nt	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)		6.30 x 1.69 x 4.69 in (160 x 43 x 126 mm) 6.33 x 1.69 x 6.71 in (161 x 43 x 170.5 mm)		
Weight		2.5 lb (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)		
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#### 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.

#### WEATHER ALERT/RX (US only)

Providing an extra level of security, the TM-281A can receive the NOAA Weather Band and respond to emergency transmissions such as storm warnings by emitting an audible alert tone.

#### 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**



MC-60A

PS-60

MJ-88

Adapter

Microphone Plug

DC Power Supply

Desktop Microphone



PG-2N
DC Power Cable

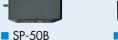


External Speaker

KPG-46U

USB Programming Cable

(USB driver can be downloaded from http://www.kenwood.com/i/ products/info/amateur/software\_



■ KPS-15 DC-Switching Power Supply

DC Line Noise Filter



MCP-1A (Ver.3.0 or later) Memory Control Software (available free for downloading from http://www.kenwood.com/i/ products/info/amateur/software\_ download.html)

download.html) download.html) 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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