

KENWOOD

TM-271A

144MHz FM TRANSCEIVER

All-Terrain Performance

Frontiers are not for the weak. It takes a rugged vehicle to meet the challenges of the wilderness, and Kenwood's new TM-271A is tough. This compact, MIL-STD-compliant transceiver delivers powerful mobile performance and such advanced features as multiple scan functions and memory names, as well as NOAA Weather Band & emergency alert reception*. On or off the road, you can always enjoy the sophistication of high-quality audio. Illuminated keys and a large LCD with adjustable green backlighting for easy operation day or night help make the TM-271A the ideal companion for all your travels.

** US only*



HIGH RF POWER OUTPUT (60W)

The TM-271A can provide an impressive 60 watts of RF power, with a choice of High/Low output.

WEATHER ALERT/RX (US only)

This transceiver is capable of receiving the NOAA Weather Band and responding to emergency transmissions such as storm warnings by emitting an audible alert tone.

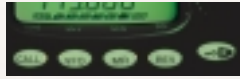
US MIL-STD 810 C/D/E/F

Built tough to take rough treatment in stride, the TM-271A meets the strict U.S. Department of Defense MIL-STD 810 C, D, E & F environmental standards for vibration and shock.

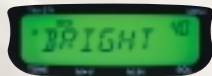


ALPHANUMERIC LCD AND ILLUMINATED KEYPAD

Capable of displaying up to 6 large alphanumeric characters, the green LCD display comes with a 32-step brightness control to suit all driving conditions. Also, the front panel and microphone keypads are both illuminated for ease of use. Note that keys for only the 5 most frequently used functions are arranged on the front panel for simplicity (other functions can be quickly accessed via menu).



Memory Name



Menu Mode



Power-on Message

DTMF MICROPHONE

The TM-271A is supplied with a DTMF microphone as standard.

◆ Specifications

TM-271A	
General	
Frequency Range	TX: 144-148 MHz RX: 136-174 MHz
Mode	F3E (FM)
Power Requirement	13.8V DC ±15%, negative ground
Current Drain	
Transmit	Less than 13.0 A (High), less than 8.0 A (Low)
Receive	Less than 1.0 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)	6.30" x 1.69" x 5.39" (160 x 43 x 137 mm)
(Projections included)	6.33" x 1.69" x 6.65" (161 x 43 x 169 mm)
Weight	2.6lbs (1.2 kg)
Transmitter	
RF Output Power (approx.)	
HI	60 W
LO	25 W
Modulation	Reactance modulation
Maximum Frequency Deviation	±5 kHz
Modulation Distortion	Less than 3% (300 Hz ~ 3 kHz)
Receiver	
Circuitry	Double Conversion Superheterodyne
Intermediate Frequency	
1st IF	49.95 MHz
2nd IF	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	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)

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

◆ Applicable MIL-STD

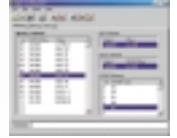
TM-271A				
MIL-STD	810C	810D	810E	810F
Vibration	514.2/III, X	514.3/I	514.4/I	514.5/I
Shock	516.1/I, II, V	516.3/I, IV	516.4/I, IV	516.5/I, IV

HIGH-QUALITY FRONT SPEAKER

The large oval (2.28" x 1.38") speaker mounted in the front panel provides excellent clarity.

200 MEMORY CHANNELS PLUS 1 CALL-CHANNEL

Each of the 200 memory channels can be used to store transmit and receive frequencies independently. Additionally, memory data can be edited and stored on a PC using the optional PG-5D PC interface cable and MCP-1A Memory Control Software.



MEMORY NAME FUNCTION

At-a-glance identification of 100 memory channels is possible with up to 6 alphanumeric characters per channel. Up to 200 channels are available if the memory name function is not used.

MULTIPLE SCAN FUNCTIONS

For maximum versatility, the TM-271A offers several scan functions, including band scan, memory scan, program scan, memory group scan, call scan, tone/CTCSS scan, DCS scan and priority scan, which checks a priority channel every 3 seconds. TO (Time-operated), CO (carrier-operated) and seek scan resume modes are also provided.

CTCSS & DCS ENCODER/DECODER

The built-in CTCSS and DCS encoder/decoder enables operation of the 42 CTCSS subtone frequencies and 104 DCS subtone codes.

HIGH FREQUENCY STABILITY

With a built-in TCXO, frequency stability is ±2.5ppm, while frequency drift is less than ±365 Hz at -20° C ~ +60° C.

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

◆ Optional Accessories



MC-60A
Desktop Microphone
(Requires MJ-88)



PG-2N
DC-Power Cable



PG-3B
DC Line Noise Filter



PS-53
Heavy Duty DC-Power
Supply (22.5A)



SP-50B
External Speaker



KPS-15
DC-Switching Power Supply



PG-5D
PC Interface Cable



MJ-88
Microphone Plug Adapter



MCP-1A
Memory Control Software
(version 2.0 or later)*

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

*Free download from Kenwood USA website: www.kenwood.net

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