

KENWOOD

TM-271E

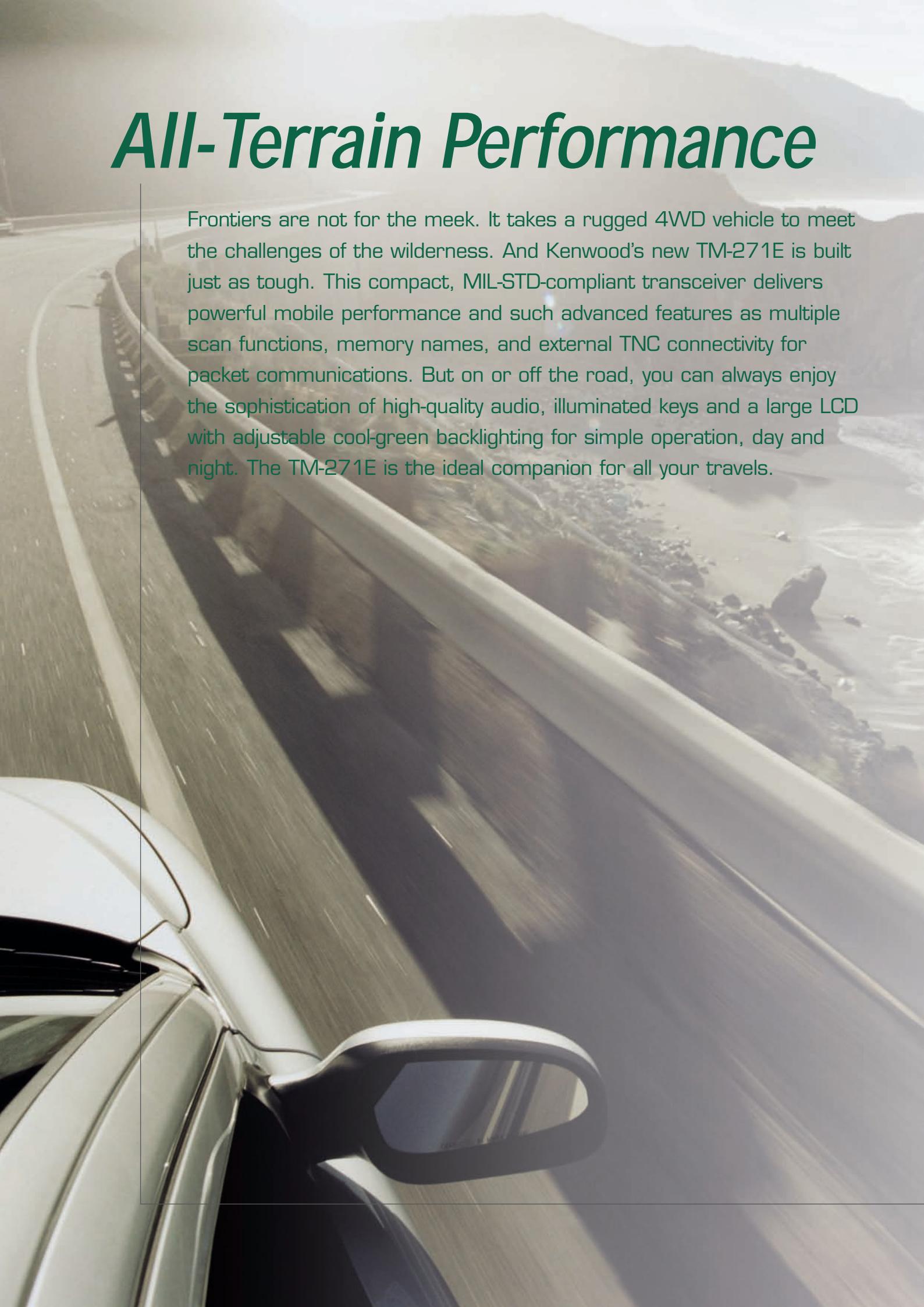
144MHz FM TRANSCEIVER

The pioneering spirit lives on. Kenwood's new TM-271E FM transceiver (144MHz) is blazing a trail for the future of mobile communications.



All-Terrain Performance

Frontiers are not for the meek. It takes a rugged 4WD vehicle to meet the challenges of the wilderness. And Kenwood's new TM-271E is built just as tough. This compact, MIL-STD-compliant transceiver delivers powerful mobile performance and such advanced features as multiple scan functions, memory names, and external TNC connectivity for packet communications. But on or off the road, you can always enjoy the sophistication of high-quality audio, illuminated keys and a large LCD with adjustable cool-green backlighting for simple operation, day and night. The TM-271E is the ideal companion for all your travels.



HIGH RF POWER OUTPUT (60W)

Despite its size, the TM-271E can provide an impressive 60 watts of RF power, with a choice of High/Low output.

US MIL-STD 810 C/D/E/F & EUROPE'S E-MARK

Built tough to take rough treatment in its stride, the TM-271E meets the strict U.S. Department of Defense MIL-STD 810 C, D, E & F environmental standards in categories such as Vibration and Shock. It is also certified compliant with EU Directive 95/54/EC (Automotive-EMC).



ALPHANUMERIC LCD AND ILLUMINATED KEYPAD

Capable of displaying up to 6 large alphanumeric characters, the positive-type 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-271E is supplied with a DTMF microphone as standard.

HIGH-QUALITY FRONT SPEAKER

The large oval (58mm x 35mm) speaker mounted in the front panel provides excellent clarity.

MULTIPLE SCAN FUNCTIONS

For maximum versatility, the TM-271E offers several scan functions, including VFO (band) scan, all memory scan, program scan, memory group scan (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.

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 KPG-46 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.

CTCSS & DCS ENCODER/DECODER

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

HIGH FREQUENCY STABILITY

Thanks to the built-in TCXO, frequency stability is $\pm 2.5\text{ppm}$, while frequency drift is less than $\pm 365\text{Hz}$ at $-20^\circ\text{C} \sim +60^\circ\text{C}$.

1200/9600BPS HIGH-SPEED DATA COMMUNICATIONS

When hooked up to a TNC, you can make use of either standard 1200bps or high-speed 9600bps packet communications.



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



◆ Optional Accessories



KMC-30
Hand Microphone



KMC-32
16-Key Hand Microphone*

*Can be used for remote control of the TM-271 although functions are not indicated on the keypad.



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



PG-2N
DC-Power Cable



PG-3B
DC Line Noise Filter



PG-5A
Data Cable



SP-50B
External Speaker



KPG-46A
PC Interface Cable



MJ-88
Microphone Plug Adapter



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

*Free download from Kenwood Japan website:
www.kenwood.com/j/products/info/amateur.html

◆ Specifications

		TM-271E
General		
Frequency Range		TX: 144-146 MHz RX: 144-146 MHz
Mode		F3E (FM), F2D
Power Requirement		13.8V DC ±15%, negative ground
Current Drain		
Transmit		Less than 13.0 A (Hi), 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) (Projections included)		160 x 43 x 137 mm (161 x 43 x 169 mm)
Weight		1.2 kgs (approx.)
Transmitter		
RF Output Power (approx.)		
High		60 W
Low		25 W
Modulation		Reactance modulation
Maximum Frequency Deviation		±5 kHz
Modulation Distortion		Less than 3% (300 MHz ~ 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-271E				
MIL-STD	810C	810D	810E	810F
Vibration	514.2/VIII, 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

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

CE 0682 !



JQA-1205

ISO9001 Registered

Communications Equipment Division



091-A

ISO9001 certification

KENWOOD CORPORATION

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