

# KENWOOD

## TK-270G/370G

**5-tone**

Compact Synthesized FM Portable Radios

Packed with innovative features such as 128-channel memory capacity, integrated 5-tone, QT & DQT signalling, extended dialling functions, priority scan, and high output (500 mW speaker and built-in speaker mic jack), Kenwood's handy TK-270G/370G portables deliver top performance, making them ideal for any and all requirements.

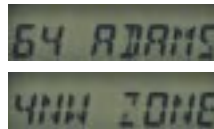


### HIGH CHANNEL CAPACITY (MAX. 128CH)

128-channel capacity (semi-duplex) ensures plenty of room for applications today and tomorrow. And once programmed, users can select specific channels within the set range.

### ALPHANUMERIC LCD DISPLAY

The 8-character display panel provides quick recognition of operating status and present settings with alphanumeric and icon characters. For enhanced nighttime viewing, the LCD display and keypad can be illuminated.



### DIE-CAST CHASSIS AND POLYCARBONATE CASE

The monocoque aluminium die-cast chassis heat-sink borrows a principal from aircraft construction for rigid strength. Surrounding this and forming an integral part of the chassis, is the super tough polycarbonate case to provide years of durability. The heavy-duty belt clip and antenna mount are also integrated into the chassis for strengthened unit construction.



### WEATHER-RESISTANT

Integrated elements such as the keypad membrane, gasket seals and the polypropylene speaker help prevent moisture penetration. In fact, the TK-270G/370G meets the demanding IP54 and IP55 standards, which guarantees weather-resistant performance.

### COMPANDED AUDIO

The compander noise-reduction feature enhances audio clarity on narrow bandwidth systems and is programmable per channel.

### 5-TONE SIGNALLING

The built-in 5-tone encoder/decoder (single-frame-, 2-frame & 3-frame) is compatible with a wide variety of European signalling requirements — EEA, EIA, CCIR, ZVEI, ZVEI-2, and the KENWOOD tone format.

### PTT-ID PER CHANNEL

PTT ID is programmable per channel and sends ANI automatically on every PTT (begin of transmit leading edge code and EOT trailing edge code are both independently programmable).

### SCAN WITH PRIORITY

Priority Scan enables the radio to automatically check for activity on an important main channel during the channel scan sequence and while receiving a call on another non-priority channel.

### HIGH OUTPUT AUDIO

A large 36 mm speaker provides 500 mW audio output. This enables the user to hear transmissions clearly even in the noisiest environments.

### FLASH MEMORY ADVANTAGE

Flash memory permits updates, advanced feature sets and system architectural changes to be made electronically without ever opening the unit. This means fast changes for the system operator and less down time for users.

### PC PROGRAMMING AND TUNING

Radio parameter programming and tuning can be accomplished via the accessory connector from an IBM-compatible computer without ever having to open the radio to save both time and expense (requires optional programming cable and software).

### ULTRA-HIGH CAPACITY NIMH BATTERY (OPTION)

KNB-20N, the ultra-high capacity NiMH battery (option) offers more than 10 hours of operation without charging.

### OTHER FEATURES

- MIL-STD 810 C/D/E • DEAD BEAT DISABLE (D.B.D)
- CALL ALERT • DTMF TRANSPOND • DIALING FEATURES
- TRI-COLOUR LED • EMBEDDED MESSAGE • BUSY CHANNEL LOCKOUT • BUILT-IN QT AND DQT SIGNALING
- TIME-OUT TIMER • BATTERY POWER SAVE • LOW BATTERY ALERT • MONITOR • TALK AROUND • KEY LOCK



## Options



Not all accessories may be available. Please contact your dealer for details.

## Specifications

	TK-270G	TK-370G
<b>GENERAL</b>		
Frequency range	Type 1: 146 – 174 MHz Type 2: 136 – 150 MHz Type 4:	440 – 470 MHz 403 – 430 MHz
Number of channels	Max. 128	Max. 128
Number of groups	Max. 128	Max. 128
Channel spacing	25 kHz/20 kHz/12.5 kHz	25 kHz/20 kHz/12.5 kHz
PLL channel stepping	2.5, 5, 6.25, 7.5 KHz	5, 6.25 KHz
Antenna impedance	50 Ω	50 Ω
Operating voltage	7.5 V DC ±20%	7.5 V DC ±20%
Battery life (5-5-90 duty cycle with battery saver off) with KNB-14 (600mAh) with KNB-15A (1100mAh) with KNB-20N (1600mAh)	More than 4 hours at 5 W More than 8 hours at 5 W More than 11 hours at 5 W	More than 4 hours at 4 W More than 8 hours at 4 W More than 11 hours at 4 W
Operating temperature range	-30°C ~ +60°C	-30°C ~ +60°C
Frequency stability	±3 ppm (-30°C ~ +60°C)	±2.5 ppm (-30°C ~ +60°C)
Dimensions (W x H x D)	58 x 135 x 32 mm with KNB-14 battery 58 x 135 x 35 mm with KNB-15A battery	58 x 135 x 32 mm with KNB-14 battery 58 x 135 x 35 mm with KNB-15A battery
Weight (net)	400 g with KNB-14 battery & antenna	400 g with KNB-14 battery & antenna
Applicable standards	ETS300 086, ETS300 219, ETS300 279 IP54, IP55	ETS300 086, ETS300 219, ETS300 279 IP54, IP55

	TK-270G	TK-370G
<b>RECEIVER</b>		
Sensitivity (EIA 12 dB SINAD) Sensitivity (ETS 20 dB SINAD) 25 kHz/20 kHz/12.5 kHz	0.25 μV/0.25 μV/0.32 μV -4 dBμV/-4 dBμV/-2 dBμV	0.25 μV/0.25 μV/0.32 μV -4 dBμV/-4 dBμV/-2 dBμV
Adjacent channel selectivity 25 kHz/20 kHz/12.5 kHz	70 dB/70 dB/60 dB	70 dB/70 dB/60 dB
Intermodulation	65 dB	65 dB
Spurious & image rejection	70 dB	70 dB
Audio output	500 mW at 16 Ω with less than 10% distortion	500 mW at 16 Ω with less than 10% distortion
Measurement	ETS standard	ETS standard
<b>TRANSMITTER</b>		
RF power output (Hi/Low)	5 W/1 W	4 W/1 W
Modulation limiting	±5.0 kHz at 25 kHz ±4.0 kHz at 20 kHz ±2.5 kHz at 12.5 kHz	±5.0 kHz at 25 kHz ±4.0 kHz at 20 kHz ±2.5 kHz at 12.5 kHz
Spurious emission	-36 dBm ≤ 1 GHz -30 dBm > 1 GHz	-36 dBm ≤ 1 GHz -30 dBm > 1 GHz
FM noise (EIA) 25 kHz/20 kHz/12.5 kHz	45 dB/43 dB/40 dB	45 dB/43 dB/40 dB
Modulation distortion	Less than 5% at 1 kHz	Less than 5% at 1 kHz
Measurement	ETS standard	ETS standard

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

## Applicable MIL-STD

Standard	MIL 810C Methods/Procedures	MIL 810D Methods/Procedures	MIL 810E Methods/Procedures
Rain	506.1/Procedure II	506.2/Procedure II	506.3/Procedure II
Humidity	507.1/Procedure II	507.2/Procedure II	507.3/Procedure II
Dust	510.1/Procedure I	510.2/Procedure I	510.3/Procedure I
Vibration	514.2/Procedure VIII, X	514.3/Procedure I	514.4/Procedure I
Shock	516.2/Procedure I, II, V	516.3/Procedure I, IV	516.4/Procedure I, IV

## KENWOOD CORPORATION

14-6, 1-chome, Dogenzaka, Shibuya-ku, Tokyo 150-8501, Japan

### KENWOOD ELECTRONICS UK LIMITED

Kenwood House, Dwight Road, Watford, Herts, WD1 8EB, United Kingdom

### KENWOOD ELECTRONICS DEUTSCHLAND GMBH

Rembrücker Str. 15, 63150 Heusenstamm, Germany

### KENWOOD ELECTRONICS ITALIA S.p.A.

Via G. Sirtori 7/9, 20129 Milano, Italy

# CE0168D



### KENWOOD ELECTRONICS BELGIUM N.V.

Leuvensesteenweg 248 J, 1800 Vilvoorde Belgium

### KENWOOD ELECTRONICS FRANCE S.A.

13 Boulevard Ney, 75018 Paris, France

### KENWOOD IBÉRICA, S.A.

Bolivia, 239-08020 Barcelona, Spain

CL427E-E-2