

KENWOOD

TK-760G/860G

5-tone

Compact Synthesized FM Mobile Radios

Compact yet extremely durable, the TK-760G/860G mobile offers many attractive features such as synthesized channel frequency generation (up to 128 channels), 5-tone signalling, and wideband design for excellent coverage. You'll find these radios to be indispensable in the field, delivering trustworthy performance in any situation.



The microphone shown is available as an option.

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-digit, 13-segment display panel provides quick recognition of operating status and present settings with easy-to-understand alphanumeric and icon characters.

The LCD lamp and Key-Illumination feature enhances night-time viewing.



BUILT-IN QT AND DQT SINGALING

Encoder/decoder function segregates talk groups so users only hear calls from their own group.

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).

BUILT-IN DTMF DECODER

The TK-760G/860G DTMF decode feature adds another dimension to paging with either one of two operational modes (code Squelch mode and selective call mode). DTMF decode can be used to call individual mobiles or groups of mobiles within a fleet and also provides an alert output to trigger a vehicle horn, headlights, or strobe bar to allow a dispatcher a way to hail drivers away from the vehicle.

SCAN WITH PRIORITY

Channel scanning provides users with an easy way to monitor multiple channels for activity. 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. Multi-group and single group scan are available to limit scanning to the currently selected group or to scan all channel groups.

PUBLIC ADDRESS CAPABILITY

Available with the plug-in KAP-1 PA switching option, this furnishes a simple PA audio output for internal vehicular use (school buses, airport shuttles, tour buses, etc.) or external horn speakers.

COMPACT VERSATILE MOUNTING

Lightweight and compact in size, these units facilitate easy mounting even in the tight or awkward positions of today's vehicles. The front panel can be inverted for correct viewing while leaving the built-in speaker positioned facing away from the mounting surface.



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.

OTHER FEATURES:

MIL-STD 810 C/D/E • COMPANDED AUDIO • DTMF ANI FUNCTION • TIME-OUT TIMER • HORN ALERT • BUSY CHANNEL LOCKOUT • DEAD BEAT DISABLE (D.B.D) • EMBEDDED MESSAGE • IGNITION SENSE FUNCTION (option) • OFF-HOOK DECODE • PC PROGRAMMING AND TUNING • UNIT CLONING • HIGH QUALITY AUDIO OUTPUT (4W)

Options



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

Specifications

	TK-760G	TK-860G
GENERAL		
Frequency range	146 ~ 174 MHz	440 ~ 470 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	5, 6.25, KHz	5, 6.25 KHz
Antenna impedance	50 Ω	50 Ω
Operating voltage	13.2 V DC ±15%	13.2 V DC ±15%
Current Drain		
Standby	0.4 A	0.4 A
Receive	1.0 A	1.0 A
Transmit	8.0 A	8.0 A
Operating temperature range	-30°C ~ +60°C	-30°C ~ +60°C
Frequency stability	±2.5 ppm (-30°C ~ +60°C)	±2.5 ppm (-30°C ~ +60°C)
Channel spread	28 MHz	30 MHz
Dimensions (W x H x D)	140 x 40 x 145 mm	140 x 40 x 145 mm
Weight (net)	940 g	940 g
Applicable standards	ETS300 086, ETS300 219, ETS300 279 EU directive 95 / 54 / EC	ETS300 086, ETS300 219, ETS300 279 EU directive 95 / 54 / EC

	TK-760G	TK-860G
RECEIVER		
Sensitivity (EIA 12 dB SINAD)	0.25 μV/0.25 μV/0.32 μV	0.28 μV/0.28 μV/0.35 μV
Sensitivity (ETS 20 dB SINAD)	-4 dBμV/-4dBμV/-2 dBμV	-3 dBμV/-3dBμV/-2 dBμV
25 kHz/20 kHz/12.5 kHz		
Adjacent channel selectivity	70 dB/70 dB/60 dB	70 dB/70 dB/60 dB
25 kHz/20 kHz/12.5 kHz		
Intermodulation	65 dB	65 dB
Spurious & image rejection	70 dB	70 dB
Audio output	4 W at 4 Ω with less than 5% distortion	4 W at 4 Ω with less than 5% distortion
Measurement	ETS standard	ETS standard
TRANSMITTER		
RF power output	5 - 25 W	5 - 25 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	50 dB/50 dB/45 dB	50 dB/50 dB/45 dB
Modulation distortion	Less than 3% at 1 kHz	Less than 3% at 1 kHz
Microphone impedance	1.2 kΩ	1.2 kΩ
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
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

AUTHORIZED DEALER

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