KENWOOD

TK-762G/862G

5-tone

Compact Synthesized FM Mobile Radios

Incorporating world-famous Kenwood quality plus a full range of advanced features, the TK-762G/862G offers 8-channel capacity, 5-tone signalling and an optional public address function (PA/HA). For the ultimate in mobile communications, choose the TK-762G/862G — its performance is sure to impress.

The microphone shown is available as an option.

MAXIMUM 8-CHANNEL CAPACITY

On-board memory stores frequency and configuration settings that can be programmed using a personal computer.

COMPANDED AUDIO

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

BUILT-IN QT AND DQT SIGNALING

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

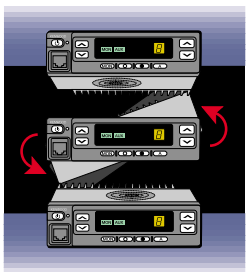
"PTT ID" is programmable per channel and sends ANI automatically on every PTT (begin of transmit leading edge code and EOT trailing edge code are both independently programmable).

PUBLIC ADDRESS CAPABILITY

Available with the plug-in KAP-1A 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.



MIL-STD 810 C/D/E

The TK-762G/862G meets or exceeds the tough environmental MIL-STD 810 C/D/E standard used by the U.S. Department of Defense, covering shock, vibration and dust for excellent long-term durability in the roughest of vehicle 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

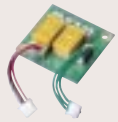
Radio parameter programming and tuning can be accomplished via the microphone connector from an IBM-compatible computer without ever having to open the radio to save both time and expense (programming software and cable options required).

OTHER FEATURES:

• NUMERIC LCD DISPLAY (1 DIGIT, 7 SEGMENTS) • HORN ALERT • TIME-OUT TIMER • BUSY CHANNEL LOCKOUT • DEAD BEAT DISABLE (D.B.D) • OFF-HOOK DECODE • UNIT CLONING • IGNITION SENSE FUNCTION (option) • KEY-ILLUMINATION • HIGH QUALITY AUDIO OUTPUT (4W)

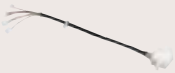
Options

KAP-1
PA/HA Switching Unit



KCT-18
Ignition Sense Cable

KCT-19
Accessories
Connection Cable



KES-3
External Compact Speaker
(fits 3.5 mm ext. speaker jack)

KLF-2
Line Noise Filter
(in-line install with DC
power cable)

KMB-8
Mounting Bracket

KMB-10
Key Lock Adapter
(for mobile mounting
bracket)

KMC-30
Microphone

KMC-32
Keypad Microphone
(16 keys)

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

Specifications

	TK-762G	TK-862G
GENERAL		
Frequency range	146 ~ 174 MHz	440 ~ 470 MHz
Number of channels	Max. 8	Max. 8
Number of groups	Max. 1	Max. 1
Channel spacing	25 kHz / 20 kHz / 12.5kHz	25 kHz / 20 kHz / 12.5kHz
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 Receive Transmit	 0.4 A 1.0 A 8.0 A	 0.4 A 1.0 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-762G	TK-862G
RECEIVER		
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/-4dBµV/-2 dBµV	0.28 µV/0.28 µV/0.35 µV -3 dBµV/-3dBµV/-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	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 12.5kHz	±5.0 kHz at 25 kHz ±4.0 kHz at 20 kHz ±2.5 kHz at 12.5kHz
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 then 3% at 1 kHz	Less then 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

CE 0168

JQA-1205 ISO 9001
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Kenwood Corporation
ISO9001 certification

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