KENWOOD

Listen to the Future

TK-7162E/8162E

VHF/UHF FM Mobile Radios

5-tone FleetSync® by KENWOOD

Kenwood's TK-7162/8162 mobiles provide the performance, power and quality for reliable communications in a wide range of mobile applications and environments. User-friendly features include a 16-channel capacity, 5-Tone signalling, FleetSync® and easy-to-see backlit LCD.

NEW CONCEPT DESIGN

Kenwood employed premium industrial design concepts to make the TK-7162/8162 functionally practical, rugged and an attractive piece of equipment to use.

MIL-STD 810C/D/E/F

The TK-7162/8162 is built to survive the hard knocks and harsh weather environments of many type mobile installations. These mobiles meet or exceed the MIL-STD 810 C, D, E, & F environmental standards including the "drip rain" test.*

* MIL-STD compatibility requires the KMC-35 or KMC-36 microphone.

16 CHANNELS

The TK-7162/8162 has a 16-channel capacity for single or multiple site radio systems.

ENHANCED KENWOOD AUDIO & FRONT MOUNTED SPEAKERS

Equipped with 4W high power front mounted speakers and renowned Kenwood audio technology, the TK-7162/8162 provides loud clear audio even in noisy environments.

ILLUMINATED LCD DISPLAY

The LCD provides quick recognition of operating status and present settings with numeric characters (0 to 16) and icons. For the night-time viewing, the LCD display and keypads can be illuminated.

LONE WORKER

This ingenious feature provides an extra layer of security and safety for individuals who work remotely as well as for those who work in hazardous areas. As long as the buttons are pressed regularly, the radio operates normally; however, if there is a long lapse (programmable), it will sound an alert. In the absence of further response from the user, the TK-7162/8162 will place an emergency call to a predetermined person or group of people.

FleetSync® PTT ID

Kenwood's FleetSync® digital signalling system includes PTT ID digital ANI for instant radio call identification and Emergency status for personnel safety.

5-TONE SIGNALLING

In addition to FleetSync® PTT ID, the TK-7162/8162 includes 5-Tone selective calls in 6-different formats, EIA, EEA, CCIR, ZVEI, ZVEI2 and the Kenwood format.

SCAN

Multi-channel call monitoring can be customized with delete/add scan. Priority Scan automatically checks a primary channel for activity while receiving a call on a non-priority channel. Convenience features such as Priority-channel Stop Tone, Temporary Delete and Revert Channel Display facilitate user-friendly operation and eliminate confusion.

OTHER FEATURES

- QT/DQT, DTMF
- Voting
- Voice Inversion Scrambler
- Programmable Function Keys
- Programmable Channel Spacing
- Embedded Messages
- Ignition Sense Input & Cable Option
- Horn Alert Option
  (External relay unit required)
- Microsoft Windows® PC Programming & Tuning
- Encryption & ANI Control Capability
- Operator Selectable Tone

Options

- **KMC-35** Heavy-duty Microphone 
- **KMC-36** Heavy-duty Keypad Microphone 
- **KMC-30** Microphone 
- **KMC-32** Keypad Microphone 
- **KMC-9C** Control Station Desktop Microphone 
- **KCT-18** Ignition Sense Cable (requires KCT-39 option) 
- **KCT-36** 3m Extension Cable (for KCT-39) 
- **KCT-39** Connection Cable (16-pin) 
- **KES-3** External Speaker 
- **KMB-10** Key Lock Adapter 
- **KLF-2** Line Noise Filter 
- **KPG-46A** PC Interface Cable 

All accessories and options may not be available in all markets.
Contact an authorized Kenwood dealer for details and complete list of all accessories and options.

Specifications

	TK-7162	TK-8162
GENERAL		
Frequency Range E type E3 type	 136~174 MHz —	 440~470 MHz 400~430 MHz
Number of Channels	Max.16 channels	Max.16 channels
Channel Spacing	25 kHz / 20 kHz / 12.5 kHz	25 kHz / 20 kHz* / 12.5 kHz
Operating Voltage	13.6 V DC±15 %	13.6 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)
Antenna Impedance	50 Ω	50 Ω
Channel Frequency Spread E type E3 type	 38 MHz —	 30 MHz 30 MHz
Dimensions (W x H x D), Projections not included	160 mm x 43 mm x 107 mm	160 mm x 43 mm x 107 mm
Weight (net)	1.00 kg	1.00 kg
Applicable Standards	EN 300 086, EN 300 113, EN 300 219, EN 301 489	EN 300 086, EN 300 113, EN 300 219, EN 301 489
E-mark (95/54/EC) E type E3 type	 e11*72/245*95/54*3016*00 —	 e11*72/245*95/54*3017*00 e11*72/245*95/54*3018*00

	TK-7162	TK-8162
RECEIVER		
Sensitivity (EIA 12dB SINAD) Sensitivity (EN 20dB SINAD) 25kHz/20kHz*/12.5kHz	0.28 µV / 0.28 µV / 0.35 µV -3dB µV / -3dB µV / -2dB µV	0.28 µV / 0.28 µV / 0.35 µV -3dB µV / -3dB µV / -2dB µV
Adjacent Channel Selectivity 25kHz/20kHz*/12.5kHz	70 dB / 70 dB / 60 dB	70 dB / 70 dB / 60 dB
Intermodulation	65 dB	65 dB
Spurious Response Regection	70 dB	70 dB
Audio Output (4 Ω impedance)	4 W with less than 5 % distortion	4 W with less than 5 % distortion
TRANSMITTER		
RF Output Power	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)	45 dB / 40 dB	45 dB / 40 dB
Modulation Distortion	3 % / 5 %	3 % / 5 %
Microphone Impedance	600 Ω	600 Ω

*TK-8162 E3 type: channel spacing 12.5 kHz / 25 kHz

Measurements made per EN Standards.

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	MIL 810F Methods/Procedures
Low Pressure	500.1/Procedure I	500.2/Procedure I, II	500.3/Procedure I, II	500.4/Procedure I, II
High Temperature	501.1/Procedure I, II	501.2/Procedure I, II	501.3/Procedure I, II	501.4/Procedure I, II
Low Temperature	502.1/Procedure I	502.2/Procedure I, II	502.3/Procedure I, II	502.4/Procedure I, II
Temperature Shock	503.1/Procedure I	503.2/Procedure I	503.3/Procedure I	503.4/Procedure I, II
Solar Radiation	505.1/Procedure I	505.2/Procedure I	505.3/Procedure I	505.4/Procedure I
Rain*	506.1/Procedure II	506.2/Procedure II	506.3/Procedure II	506.4/Procedure III
Humidity	507.1/Procedure I, II	507.2/Procedure II, III	507.3/Procedure II, III	507.4
Salt Fog	509.1/Procedure I	509.2/Procedure I	509.3/Procedure I	509.4
Dust	510.1/Procedure I	510.2/Procedure I	510.3/Procedure I	510.4/Procedure I, III
Vibration	514.2/Procedure VIII, X	514.3/Procedure I	514.4/Procedure I	514.5/Procedure I
Shock	516.2/Procedure I, II, III, V	516.3/Procedure I, IV, V	516.4/Procedure I, IV, V	516.5/Procedure I, IV, V

* Required condition for Drip-Rain: KCT cable and/or SP cable are not connected; KMC-35/36 Microphone is connected.

Listen to the Future

Kenwood has always connected with people through sound.
Now we want to expand the world of sound in ways that only Kenwood can,
listening to our customers and to the pulse of the coming age
as we head toward a future of shared discovery,
inspiration and enjoyment.

CE 0168

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