KENWOOD

Listen to the Future

TK-7360/8360

VHF/UHF Compact FM Mobile Radios

FleetSync® by KENWOOD · 5-tone · IP54 · MIL-STD 810C/D/E/F/G · GPS

Kenwood's new TK-7360/8360 offers extra wideband coverage (UHF: 70MHz) and a wealth of user-friendly features. The bright 10-character, 13-segment LCD clearly displays all essential information, including status messages, ID and GPS info. Also available are 10 programmable function keys, QT/DQT signalling and multiple scan functions to ensure superb performance 24/7.

128 CHANNELS, 128 ZONES

The TK-7360/8360 offers ample channel/zone capacity to enable a large organization to manage a wide range of different operations efficiently.

ENHANCED KENWOOD AUDIO

Clear audio means confident communications, but power output is not the only factor that determines how easy it is to use a radio in varying noisy environments. As an audio specialist experienced in psychoacoustics, Kenwood can draw on decades of expertise at every step: component selection, construction, optimisation, evaluation and analysis. The resulting audio performance – specially engineered for transceivers and with frequency response optimised for the human voice – is undeniably clearer and crisper.

EXTERNAL D-SUB 15-PIN INTERFACE

A D-sub 15-pin terminal enables the simple connection of various types of external equipment. It can be used for Ignition sense, External Switch, Horn Alert, and External Mic, among others. A Molex interface is also available with the optional KCT-60M cable.

10 PROGRAMMABLE FUNCTION KEYS

The programmable function keys can be assigned a variety of functions to suit different applications and thus maximise convenience.

POWER OUTPUT

TX output can be set (by FPU) to 5 or 25 watts.

STATUS MESSAGES

Status messages are displayed clearly thanks to the large LCD with adjustable brightness. It is also possible to operate an external device (via AUX output) – such as a gate or an alarm – on receipt of a status ID.

MULTIPLE SIGNALLING

QT/DQT/DTMF

Encoder/decoder function uses QT/DQT to segregate talk groups, so users only hear calls from their own group. DTMF PTT ID is included for dispatch operations or for a simple remote control application.

FleetSync® PTT ID, SelCall & Status

Utilising Kenwood's FleetSync® signalling protocol, the TK-7360/8360 has PTT ID (ANI: automatic number identification) and Selective Calling capabilities for managed dispatch operations. Programmed Status (by FPU) can also be sent.

5-Tone

The TK-7360/8360 includes 5-Tone selective calls in 6-different formats, EIA, EEA, CCIR, ZVEI, ZVEI2 and the Kenwood format, and it also can include GPS position data.

Emergency alert

For hazardous/hostile duty environments, a PF key can be programmed for emergency use to alert the dispatcher or other group members via DTMF, FleetSync®, 5-tone or MDC-1200 option.*1

PROGRAMMABLE VOICE INVERSION SCRAMBLER*1

The built-in programmable voice inversion scrambler provides basic protection against casual eavesdropping. It is possible to have a unique scrambler setting for each channel by picking the voice inversion frequency from one of 16 tables.

PROGRAMMABLE BLUE LED

The blue LED indicator can be customised to provide useful status information. For example, it can be used in combination with the orange LED for Selective Call differentiation.

GPS FEATURE

Connected to an external GPS receiver, the TK-7360/8360 can transmit accurate vehicle location data to the central base station for fleet management purposes. Designated scrambler and GPS modules can be installed internally.

VOICE GUIDE & STORAGE OPTION (VGS-1)

Audible announcement is provided by the optional VGS-1 unit, which also provides storage for GPS data as well as voice recording/playback.

OTHER FEATURES

• Multiple Scan Functions, including Priority Scan • Voting (automatic repeater search & selection) • Independent Setting Per Channel (compander, scrambler) • BCL (Busy Channel Lockout) • Talk Around • Horn Alert Function • Companded Audio (narrow/wide) • 3-colour LED (red, orange, green) • Password Protection • Time-out Timer • MDC-1200 Option*1 • Minimum Volume Setting (by FPU) • Lone Worker • Operator Selectable Tone Settings • Embedded Message • 8 Programmable Accessory Ports (for external control) • Scan Del/Add Function • Kenwood ESN (Electronic Serial Number) • Radio Stun • Adjustable Microphone Gain (FPU only): High/Normal/Low • Microsoft Windows® PC Programming & Tuning

*1 This function cannot be used in certain countries. Please contact your Kenwood dealer for further information.

Options

- **KMC-35** Microphone 
- **KMC-36** Keypad Microphone 
- **KMC-30** Microphone 
- **KMC-32** 16-key Keypad Microphone 
- **KMC-9C** Desktop Microphone 
- **KES-3** External Speaker 
- **KES-5** External Speaker 
- **KMB-10** Key Lock Adapter 
- **KLF-2** Line Filter 
- **KCT-18** Ignition Sense Cable (requires KCT-60 option) 
- **KCT-36** 3m Extension Cable (for KCT-60) 
- **KCT-60** Connection Cable 
- **VGS-1** Voice Guide & Storage Unit (uses 26p connector) 

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-7360	TK-8360
GENERAL		
Frequency Range	136 – 174 MHz	400 – 470 MHz
Number of Channels	Max. 128 Ch's Total per Radio	
Zone	Max.128 per Radio	
Channel	Max. 128 per Zone	
Channel Spacing	25 kHz / 20 kHz / 12.5 kHz	
Operating Voltage	13.2 V DC (10.8 – 15.6 V DC)	
Curent Drain		
Standby	0.3 A	
Receive	1.0 A	
Transmit	8.0 A	
Operating Temperature Range	-30 °C ~ +60 °C	
Frequency Stability	±2.5 ppm (-30 °C ~ +60 °C)	
Antenna Impedance	50 Ω	
Dimensions (W x H X D), Projections not included	160 x 43 x 136 mm	
Weight (net)	1.18 kg	
Applicable Standards		
ETSI R&TTE	EN 300 086, EN 300 113, EN 300 219, EN 301 489	
ETSI Safety	EN 60065, EN 60950-1, EN 60215	

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Windows® is a registered trademark of Microsoft Corporation in the United States and other countries.

	TK-7360	TK-8360
RECEIVER		
Sensitivity (25 kHz / 20 kHz / 12.5 kHz)		
EIA 12 dB SINAD	0.28 µV / 0.28 µV / 0.35 µV	
EN 20 dB SINAD	-3 dBµV (0.35 µV) / -3 dBµV (0.35 µV) / -2 dBµV (0.40 µV)	
Adjacent Channel Selectivity (25 kHz / 20 kHz / 12.5 kHz)	70 dB / 70 dB / 60 dB	
Intermodulation (25 kHz / 20 kHz / 12.5 kHz)	67 dB / 67 dB / 67 dB	
Spurious Response Rejection	70 dB	
Audio Distortion	less than 5 %	
Audio Output	4 W / 4 Ω	
TRANSMITTER		
RF Power Output	5 – 25 W	
Modulation Limiting	±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	
FM Noise (EIA) (25 kHz / 20 kHz / 12.5 kHz)	45 dB / 45 dB / 40 dB	
Modulation Distortion	Less than 3 %	
Modulation	16K0F3E, 14K0F3E, 14K0F2D, 12K0F2D, 8K50F3E, 7K50F2D	

Measurements made per EN Standards or TIA/EIA 603 and specifications shown are typical.
Kenwood follows a policy of continuous advancement in development.
For this reason specifications may be changed without notice.

Applicable MIL-STD & IP

Standard	MIL 810C Methods/Procedures	MIL 810D Methods/Procedures	MIL 810E Methods/Procedures	MIL 810F Methods/Procedures	MIL 810G Methods/Procedures
Low Pressure	500.1/Procedure I	500.2/Procedure I, II	500.3/Procedure I, II	500.4/Procedure I, II	500.5/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	501.5/Procedure I, II
Low Temperature	502.1/Procedure I	502.2/Procedure I, II	502.3/Procedure I, II	502.4/Procedure I, II	502.5/Procedure I, II
Temperature Shock	503.1/Procedure I	503.2/Procedure I	503.3/Procedure I	503.4/Procedure I, II	503.5/Procedure I
Solar Radiation	505.1/Procedure I	505.2/Procedure I	505.3/Procedure I	505.4/Procedure I	505.5/Procedure I
Rain[*1]	506.1/Procedure I, II	506.2/Procedure I, II	506.3/Procedure I, II	506.4/Procedure I, III	506.5/Procedure I, III
Humidity	507.1/Procedure I, II	507.2/Procedure II, III	507.3/Procedure II, III	507.4	507.5/Procedure II
Salt Fog[*1]	509.1/Procedure I	509.2/Procedure I	509.3/Procedure I	509.4	509.5
Dust[*1]	510.1/Procedure I	510.2/Procedure I	510.3/Procedure I	510.4/Procedure I, III	510.5/Procedure I
Vibration	514.2/Procedure VIII, X	514.3/Procedure I	514.4/Procedure I	514.5/Procedure I	514.6/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	516.6/Procedure I, IV, V

International Protection Standard	
Dust & Water Protection	IP54[*1]

*1: Necessary conditions are: (1) KMC-35/36 microphone is connected; (2) cap is installed on speaker connector; (3) cover is installed on D-sub 15-pin connector; and (4) neither KCT cable nor SP cable 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.

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JQA-1205 091
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