

# KENWOOD

Listen to the Future

## TK-7160(H)/8160(H)

VHF/UHF FM Mobile Radios  
VHF/UHF 無線電對講機

Kenwood's TK-7160(H)/8160(H) mobiles provide the performance, power and quality for reliable communications in a wide range of mobile applications and environments. Advanced features include a 128-channel/128-zone capacity, FleetSync® and voice-inversion scrambling.

### ADVANCED INDUSTRIAL DESIGN

The 160-Series compact, rugged and smart industrial design offers ease of installation, practicality, durability and style.

### 128 CHANNELS / 128 ZONES

The convenient 128 channel/128 zone capability accommodates virtually any current or future capacity requirement for single or multiple site radio systems.

### ADVANCED DISPLAY

The backlit LCD with 8-character, 13 segment aliases with and icons provides an easy-to-read channel, function and FleetSync® messaging display day or night.



### ENHANCED KENWOOD AUDIO

The TK-7160(H)/8160(H) provides loud clear audio even in noisy environments.

### MEETS/EXCEEDS MIL-STD DRIP RAIN

The TK-7160(H)/8160(H) 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.

### FleetSync® & AVL

Kenwood's FleetSync® digital signalling system includes PTT ID digital ANI for instant radio call identification and Emergency status for personnel safety. FleetSync® also includes status messaging, selective calling, caller ID display, and stun features. Also, GPS receivers can be interfaced for FleetSync® Automatic Vehicle Location (AVL) systems.

### EMERGENCY CALL

Emergency Calling notifies a dispatcher of personnel in distress by activation of a front panel emergency key. The "silent alert" and Suspend Power Off features will inconspicuously send Emergency even if the mobile's power has been turned off. Emergency Call operates with FleetSync®, DTMF or ANI board emergency signaling.

### QT/DQT, DTMF & 2-TONE SIGNALLING

In addition to FleetSync®, the TK-7160(H)/8160(H) includes industry standard signalling formats: QT/DQT, 2-Tone (encode/decode) that can be utilized for talk groups, system access, selective calling, talk back paging, status messaging and remote control applications.

### SCAN

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



### VOICE INVERSION SCRAMBLER

The built-in voice inversion scrambler provides basic communications protection against casual eavesdropping.

### OTHER FEATURES

- Power-On LCD Message
- LCD Backlight Intensity
- 5 Programmable Function Keys
- Backlit Keys
- Channel & Zone Delete/Add
- Operator Selectable Tone
- Special Alert Tone Patterns
- Minimum Volume
- 8 PF Accessory Ports for External Control
- Data Ready Accessory Connector
- Horn Alert/PA Option
- Ignition-Sense Cable Options
- KDS-100 Compatible
- KGP-2A/2B Compatible
- Embedded Message with Password
- Programming Data Password
- Field Program Capability
- Cloning
- PC Programming & Tuning
- Encryption & ANI Control Capability

FleetSync®  
by KENWOOD



## Options 選購配件

<p>■ <b>KMC-35</b> Microphone 手持麥克風</p> 	<p>■ <b>KMC-9C</b> Control Station Desktop Microphone 桌上型麥克風</p> 	<p>■ <b>KAP-2</b> HornAlert/Public Address Relay Unit</p> 	<p>■ <b>KLF-2</b> Line Noise Filter 濾波器</p> 
<p>■ <b>KMC-36</b> Keypad Microphone 手持麥克風</p> 	<p>■ <b>KCT-18</b> Ignition Sense Cable (requires KCT-39 option) 感應線</p> 	<p>■ <b>KES-3</b> External Speaker 外接喇叭</p> 	<p>■ <b>KPS-10A</b> DC Power Supply 電源供應器</p> 
<p>■ <b>KMC-30</b> Microphone 手持麥克風</p> 	<p>■ <b>KCT-36</b> 3m extension Cable (for KCT-39) 3M 延長線</p> 	<p>■ <b>KES-5</b> External Speaker (requires KAP-2) 外接喇叭</p> 	<p>■ <b>KDS-100</b> Mobile Data Terminal (requires KCT-39 option)</p> 
<p>■ <b>KMC-32</b> Keypad Microphone 手持麥克風</p> 	<p>■ <b>KCT-39</b> Connection Cable 連接線</p> 	<p>■ <b>KMB-10</b> Key Lock Adapter 固定架鎖</p> 	<p>■ <b>KGP-2A</b> GPS Receiver Modem (requires KCT-39 option)</p> 
			<p>■ <b>KGP-2B</b> GPS Controller Modem (requires KCT-39 option)</p> 

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 規格表

	TK-7160	TK-7160H	TK-8160	TK-8160H
<b>GENERAL</b>				
Frequency Range	136~174 MHz		440~480 MHz	
Number of Channels	Max.128 per Radio Max.128 per Zone		Max. 128 per Radio Max. 128 per Zone	
Channel Spacing	25 kHz, 30 kHz 12.5 kHz, 15 kHz		25 kHz 12.5 kHz	
Operating Voltage	13.6 V DC ± 15 %		13.6 V DC ± 15 %	
Current Drain				
Standby	0.4 A	0.4 A	0.4 A	0.4 A
Receive	1.0 A	1.0 A	1.0 A	1.0 A
Transmit	8.0 A	14.0 A	8.0 A	14.0 A
Duty Cycle	Transmit: 20 %		Transmit: 20 %	
Operating Temperature Range	-30°C ~ +60°C		-30°C ~ +60°C	
Frequency Stability	±2.5ppm(-30°C ~ +60°C)		±2.5ppm(-30°C ~ +60°C)	
Antenna Impedance	50 Ω		50 Ω	
Channel Frequency Spread	38 MHz		40 MHz	
Dimensions (W x H x D), Projections not included	160 mm x 43 mm x 137 mm		160 mm x 43 mm x 137 mm	
Weight (net)	1.18 kg		1.18 kg	
<b>RECEIVER (Measurements made per EIA/TIA-603)</b>				
Sensitivity(12dB SINAD)	Wide Narrow		0.28 μV 0.35 μV	
Selectivity	Wide Narrow		75 dB 65 dB	
Intermodulation Distortion	Wide Narrow		75 dB 65 dB	
Spurious Response			75 dB	
Audio Output (4 Ω impedance)	4 W with less than 3 % distortion		4 W with less than 3 % distortion	
<b>TRANSMITTER (Measurements made per EIA/TIA-603)</b>				
RF Output Power	5 W / 25 W	25 W / 50 W	5 W / 25 W	25 W / 45 W
Spurious Response			70 dB	
Type of Emission	Wide Narrow		16K0F3E 11K0F3E	
FM Hum & Noise	Wide Narrow		45 dB 40 dB	
Microphone Impedance			600 Ω	
Audio Distortion	Wide Narrow		3 % 5 %	

★以上各項規格各國稍有不同KENWOOD基於精益求精的精神，保留任何更改的權利，若有更改恕不通知。

## Applicable MIL-STD 規格表

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 I,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

\*To meet above Mil 810, weather proof microphone KMC-35 or KMC-36 has to be connected.

## KENWOOD CORPORATION

2967-3, Ishikawa-machi, Hachioji, Tokyo 192-8525, Japan

台灣進口總代理

大王電器廠股份有限公司

GREAT KING ELECTRICITY CO., LTD.

http://www.greatking.com.tw



ISO9001 Registered  
Communications Equipment Division  
Kenwood Corporation  
ISO9001 certification

CL588M-E-2