

KENWOOD

Listen to the Future



TK-7102H/8102H

Compact Synthesized FM Mobile Portable

FleetSync[®]
by KENWOOD

SIMPLE OPERATION AND SOLID PERFORMANCE IN A COMPACT PACKAGE

Kenwood's new TK-7102H/8102H VHF/UHF FM transceivers offer clear, reliable mobile communications with minimum 25W RF output and such features as QT/DQT signalling, phone/repeater access, and PC programming.

BUILT-IN QT/DQT SIGNALLING

Continuous QT (Quiet Talk) and DQT (Digital QT) tone-coded squelch circuits eliminate hearing unwanted signals from others using the same channel. Once a technician has programmed the radio, the user hears only calls with the specified talk group tone (39 for QT) or code (104 for DQT).

BUSY CHANNEL LOCKOUT

If another talk group is already on the air, this feature enhances channel management by preventing transmission.

SELECTABLE WIDE/NARROW CHANNEL BANDWIDTH

The TK-7102H/8102H can handle both existing wideband systems and emerging narrow band applications, making it possible to future-proof your investment.

DTMF

Code Squelch mode provides a 3- to 10-digit ID for basic DTMF paging operations, while DTMF encode allows access to phone patches. A standard PTT ID (max. 16-digit DTMF code) is sent automatically at the start (leading edge) and finish (trailing edge) of a transmission.

EASY OPERATION

Simplicity characterizes all operations. The front panel features just 4 channel keys, 2 function keys and 2 volume keys. All keys except for the power switch are backlit to facilitate nighttime operation.

SCAN

Channel scanning provides the user with a simple way to monitor multiple channels for activity, with extra flexibility offered by adjustable scan resume.

HIGH POWER OUTPUT

The newly developed discrete final MOS FET boasts powerful 45W output for the UHF range and 50W for the VHF range.

HIGH-QUALITY SPEAKER

Assuring not only powerful output but also excellent clarity is the large-diameter oval (58mm x 35mm) speaker mounted in the front panel.

TOUGH, COMPACT CONSTRUCTION

Built to take rough treatment in stride, the TK-7102H/8102H meets the stringent MIL-STD 810 C/D/E standards for resistance to dust, vibration and shock. The "die-cast" construction of the chassis assures excellent heat dissipation characteristics, and installation is simplified thanks to the compact external dimensions — 160mm (W) x 43mm (H) x 107mm (D).

PC PROGRAMMING & CLONING CAPABILITY

Using the optional interface cable, the TK-7102H/8102H can be connected to a PC* for programming. One-to-one wired cloning is also possible. And password protection (1 to 10 digits) prevents unauthorized data access.

*Compatible with Windows® 95/98/2000/XP

EMBEDDED MESSAGE & KENWOOD ESN

The radio's EEPROM can store an embedded message containing ID number, user and department names, etc. Additionally, a unique electronic serial number (ESN) helps to protect against theft: it cannot be removed or altered. A unit can thus be identified even if the external labels, marking or factory serial numbers have been removed.

TIME-OUT-TIMER

TOT terminates transmission after a set time, returning the unit to receive mode. There is also an alarm to alert the user of imminent TOT activation.



Options

■ **KES-3**
External Speaker



■ **KMC-32**
16-keypad
Microphone



■ **KMB-10**
Key Lock Adapter



■ **KMC-30**
Microphone



■ **KPS-15**
DC Power Supply



■ **KLF-2**
Line Noise Filter



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

Model	TK-7102H	TK-8102H
GENERAL		
Frequency Range		
Type 1	146-174 MHz	450-490 MHz
Channel Spacing		
Wide/Narrow	25 kHz/12.5 kHz	25 kHz/12.5 kHz
PLL channel stepping	2.5, 5, 6.25, 7.5 kHz	5, 6.25 kHz
Operating Voltage	13.6 V DC ±15%	13.6 V DC ±15%
Current Drain		
Standby	0.4A	0.4A
Receive	1.0A	1.0A
Transmit	14.0A	14.0A
Frequency Stability	±2.5ppm (-30°F ~ +60°F)	
Operating Temperature Range	-30°F ~ +60°F	
Antenna Impedance	50 Ω	
Channel Frequency Spread		
Type 1	28 MHz	40 MHz
Dimensions (W x H x D), Projections not Included	6-5/16" x 1-11/16" x 5-3/8" (160 x 43 x 137 mm)	
Weight (net)		
Body Only	Approx. 2.6 lbs (1.18 kg)	
IC Certification		
Type 1	282F-32933210	282F-32943210

Model	TK-7102H	TK-8102H
RECEIVER (Measurements made per TIA/EIA-603)		
Sensitivity (12dB SINAD)		
Wide		0.25 µV
Narrow		0.35 µV
Selectivity		
Wide		75 dB
Narrow		65 dB
Intermodulation Distortion		
Wide		70 dB
Narrow		60 dB
Spurious Response	75 dB	75 dB
Audio Output (4 Ω 5% distortion)	4.0 W	
TRANSMITTER (Measurements made per TIA/EIA-603)		
RF Output Power	25 W to 50 W	25 W to 45 W
Spurious & Harmonics (High)	70 dB	
Modulations		
Wide	16KØF3E	
Narrow	11KØF3E	
FM Noise		
Wide	45 dB	
Narrow	40 dB	
Audio Distortion	Less than 3%	
Microphone Impedance	600 Ω	

Kenwood reserves the right to change specifications and features without prior notice.
FleetSync® is not compatible with FleetSync II offered in some Kenwood products.
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All other trademarks are property of their respective owners.

Applicable MIL-STD

Standard	MIL 810C	MIL 810D	MIL 810E
	Methods/Procedures	Methods/Procedures	Methods/Procedures
Low Pressure	500.1/Procedure I	500.2/Procedure I, II	500.3/Procedure I, II
High Temperature	501.1/Procedure I, II	501.2/Procedure I, II	501.3/Procedure I, II
Low Temperature	502.1/Procedure I	502.2/Procedure I, II	502.3/Procedure I, II

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