

KENWOOD

Listen to the Future

TK-7102H/8102H

Compact VHF/UHF/FM Mobile Radios

FleetSync[®]
by KENWOOD

GENERAL FEATURES

- 50W (146-174 MHz) Model
- 45W (450-490 MHz) Model
- 8 Channels (4 Channels Per Group)
- 2 Conventional Groups
- Normal Scan
- Backlit Keys
- Channel / Transmit / Busy LED's
- 4 Channel Keys
- 2 Function Keys
- Up/Down Volume Keys
- Enhanced Kenwood Audio
- Front Panel Speaker
- Emergency Call Features
- QT/DQT
- DTMF Encode / Decode¹
- Special Alert Tone Patterns²
- Busy Channel Lockout
- Time Out Timer
- Accessory Interface Cable Option
- 8 Programmable I/O Ports³
- Ignition Sense⁴
- Horn Alert Option⁵
- 16-Key DTMF Mic Option
- Windows Programming & Tuning⁶
- Cloning
- MIL-STD-810 C/D/E/F

FleetSync[®]

- PTT ID Digital ANI
- Emergency Status



Options

■ KMC-30

Microphone
(supplied microphone)



■ KMC-32

16-Key Keypad
Microphone



■ KES-3

External Speaker



■ KLF-2

Line Noise Filter



■ KPS-15

DC Power Supply



■ KMB-10

Key Lock Adapter



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	146-174 MHz	450-490 MHz
Type 1		
Number of Channels	8 (4 Channels x 2 Groups)	
Channel Spacing		
Wide	25 kHz	
Narrow	12.5 kHz	
Channel Step	2.5 kHz / 5 kHz 6.25 kHz / 7.5 kHz	5 kHz / 6.25 kHz
Operating Voltage	13.6V DC±15%	
Current Drain		
Standby	0.4 A	
Receive	1.0 A	
Transmit (High Power)	14.0 A	
Operating Temperature Range	-30°C ~ +60°C	
Frequency Stability	±2.5ppm	
(-30°C ~ +60°C)		
Antenna Impedance	50 Ω	
Channel Frequency Spread		
Type 1	28 MHz	40 MHz
Dimensions (W x H x D)	6.29" x 1.69" x 5.39" (160 mm x 43 mm x 137 mm)	
weight (net)	2.6 lbs (1.18 kg)	
(body only, approx.)		
RECEIVER (Measurements made per TIA/EIA-603)		
Sensitivity (12dB SINAD)		
Wide	0.28 μV	
Narrow	0.35 μV	
Selectivity		
Wide	75 dB	
Narrow	60 dB	
Intermodulation Distortion		
Wide	70 dB	
Narrow	60 dB	
Spurious Response	75 dB	
Audio Output	(4W at 4 Ω) with less than 5% distortion)	
TRANSMITTER (Measurements made per TIA/EIA-603)		
RF Output Power	50 W	45 W
Spurious Response		
(High Power)	70 dB	
Modulation		
Wide	16KØF3E	
Narrow	11KØF3E	
FM Hum & 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. Windows is a registered trademark of Microsoft Corporation in the US and other countries. FleetSync® is a registered trademark of Kenwood Corporation.

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
Humidity	507.1/Procedure 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

footnotes from front:

- ¹ DTMF includes PTT ID, Emergency ANI, Manual Encode (KMC-32), Auto-Dial (9 numbers) & Stun.
- ² Special Alert Tone Patterns operate for DTMF, selective call decode.
- ³ KCT-39 required for 4 CH remote control, ignition sense (KCT-18), KGP-2A/B, KDS-100, data modems, external GPS interface.
- ⁴ KCT-39 & KCT-18 ignition sense cable options required.
- ⁵ KAP-1 & KCT-19 required: Horn Alert operates for DTMF selective call decode.
- ⁶ KPG-70D program software required: Windows® 2000/MelXP.

KENWOOD

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