

KENWOOD

Listen to the Future



TK-7150/8150

VHF/UHF FM Mobile Radios

FleetSync[®]
by KENWOOD

GENERAL FEATURES

- 50 W (136-174 MHz)
- 45 W (450-500 MHz)
- Conventional & LTR[®] Zones
- Remote Control Head Option¹
- 12 Character Alphanumeric Aliases
- Backlit Dot Matrix LCD
- 3-Digit Sub-Display
- Function / Status LCD Icons
- Transmit & Receive LEDs
- Rotary Selector Knob
- Rotary Volume Knob
- 6 PF Keys with Labels
- Emergency / AUX Key
- Enhanced Kenwood Audio
- 3.5 W Front Panel Speaker
- 13 W External Speaker Output
- Companded Audio
- Encryption & ANI Board Control
- Emergency Call Features
- DTMF Encode / Decode
- Special Alert Tone Patterns

- Time Out Timer
- Busy Channel Lockout
- Timed Power Off
- DB-25 Accessory Connector
- 4 Programmable AUX I/Os
- 4 Programmable AUX Outputs
- Ext. Speaker, PA, Ignition Connector²
- Ignition Sense³
- Public Address/Horn Alert Output⁴
- MIL-Spec / Noise-Cancel Mic Opt.
- MIL-Spec / Noise Cancel DTMF Mic Opt.
- Windows[®] Programming & Tuning
- Windows[®] Firmware Uploading
- Front Panel Test / Tune
- Cloning
- MIL-STD-810 C/D/E/F

CONVENTIONAL ZONES

- 128 Channels / 128 Zones
- QT / DQT
- Two-Tone Decode

- Single / Two-Tone Encode
- Operator Selectable Tone
- Dual Priority Scan
- Single & Multi-Zone Scan
- List Scan

TRUNKED ZONES

- 250 GID / 32 Zones
- Kenwood LTR[®] Features

FleetSync[®]

- FleetSync[®] or FleetSync[®] II
- PTT ID Digital ANI
- Selective Call & Group Call
- Status Messaging
- Emergency Status
- Caller ID Display
- Short & Long Text Messages⁵
- FleetSync[®] GPS Ready⁶
- Send GPS PF Key⁶
- PC Serial Interface



Options

<p>■ KMC-9C Desktop Microphone</p> 	<p>■ KCT-18 Ignition Sense Cable</p> 	<p>■ KCT-23 DC Power Cable</p> <p>Medium Power Dash (10 feet)</p> 	<p>■ KPS-10A Regulated DC Power Supply</p> 
<p>■ KMC-27A Microphone (noise-canceling)</p> 	<p>■ KCT-22 Remote Control Cable</p> <p>8 feet</p> 	<p>■ KPS-15 DC Switching Power Supply</p> 	
<p>■ KMC-27B Microphone</p> 	<p>17 feet</p> 	<p>■ KES-5 External Speaker</p> 	<p>■ KRK-9 Single Control Head Remote Kit</p> 
<p>■ KMC-28A Keypad Microphone (noise-canceling)</p> 	<p>25 feet</p> 	<p>■ KLF-2 Line Filter</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

Model	TK-7150	TK-8150
GENERAL		
Frequency Range		
Type1:	136~174MHz	450~500MHz
Number of Channels (Zone)*		
Conventional CH:	Max.128 (1 zone x 128ch ~ 128 zones x 1ch)	
Trunking ID:	Max. 250/zone (max.32 zones)	
Channel Spacing		
Wide:	25kHz, 30kHz	25kHz
Narrow:	12.5kHz, 15kHz	12.5kHz
Operating Voltage	13.6V DC±15%	
Current Drain		
Standby:	0.5A	0.5A
Receive:	2.3A	2.3A
Transmit:	Less than 12A	Less than 13A
Duty Cycle	Transmit: 20%	
Operating Temperature Range	-22°F ~ +140°F (-30°C ~ +60°C)	
Frequency Stability (-22°F ~ +140°F)	±0.00025%	
Antenna Impedance	50 Ω	
Dimensions (W x H x D)	7-1/12" x 2" x 7" (180mm x 50mm x 170mm)	
Weight (net)	5.9 lbs (2.7kg)	
FCC ID	ALH32273110	ALH32283110
Band Spread	38MHz	50MHz

* During simultaneous operation of conventional and LTR® modes. Conventional channel/trunking ID can be programmed up to 512. FleetSync® is a trademark of Kenwood Corporation. LTR® is a registered trademark of Transcrypt International.

Model	TK-7150	TK-8150
RECEIVER (Measurements made per EIA/TIA-603)		
Sensitivity		
12dB SINAD:		0.35µV
20dB Quieting:		0.45µV
Selectivity		
Wide:	84dB (±30kHz)	80dB (±25kHz)
Narrow:	76dB (±15kHz), 76dB (±12.5kHz)	73dB (±12.5kHz)
Intermodulation		
Wide:	77dB (±30, 60kHz)	79dB (±25, 50kHz)
Narrow:	75dB (±15, 30kHz)	73dB (±12.5, 25kHz)
Spurious Response	85dB	
Audio Output		
External:	12W (@ 4 Ω 3% distortion) 13W (@ 4 Ω 5% distortion)	
Internal:	3.2W (@ 16 Ω 3% distortion) 3.5W (@ 16 Ω 5% distortion)	
TRANSMITTER (Measurements made per EIA/TIA-603)		
RF Output Power	50 to 15 watts	45 to 15 watts
High:	50 watts	45 watts
Low:	15 watts	15 watts
Type of Emission		
Wide:	16K0F3E, 20K0F1D	
Narrow:	11K0F3E, 11K2F1D	
Spurious Response	75dB	
FM Hum & Noise		
Wide:	48dB	
Narrow:	42dB	
Microphone Impedance	600 Ω	
Audio Distortion	Less than 1% at 1000Hz	

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
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 Cat. A1	501.3/Procedure I, II Cat. A1	501.4/Procedure I, II
Low Temperature	502.1/Procedure I	502.2/Procedure I, II Cat. C1	502.3/Procedure I, II Cat. C1	502.4/Procedure I, II
Temperature Shock	503.1/Procedure I	503.2/Procedure I Cat. A1, C1	503.3/Procedure I Cat. A1, C1	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 II	507.2/Procedure II	507.3/Procedure II	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 Cat. 8	514.4/Procedure I Cat. 8	514.5/Procedure I Cat. 20
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 KRK-9, KCT-22MIM2/IM3, KCT-23MIM3 remote control options required.
² 6-Pin Accessory Connector for external speaker, PA Output & ignition sense input.
³ KCT-18 ignition sense cable option required; plugs into mobile 6-pin jack ignition sense input.
⁴ Built-in PA/HA outputs (no option board required); Horn Alert operates for 2-Tone or DTMF selective call decode only.
⁵ Short Text Messages are radio stored & LCD displayed; Long Text Messages require a KDS-100 and KCT-40.
⁶ FleetSync® GPS features require an internal GPS board or externally wired GPS receiver with NMEA TTL level serial data output to the internal COM 1 or 2 set to "GPS".

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 Kenwood Corporation
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