

KENWOOD

Listen to the Future



TK-7185

VHF MPT1327 Trunked Mobile Radio

GENERAL FEATURES

- 1-25 W (217-270 MHz)
- Remote Control Head Option
- Backlit Dot Matrix LCD
- 12 Character Alphanumeric Aliases
- 3-Digit Sub-Display
- Function / Status LCD Icons
- Display Customisation
- RSSI Indicator
- Date & 12/24 Hour Time Clock
- Transmit / Busy / Call Alert
- 6 Backlit PF Keys
- Emergency / AUX Key
- 4 Watt Front Panel Speaker
- Voice Inversion Scrambler Built-in
- Enhanced Kenwood Audio
- Encryption Board Control
- Easy Option Port¹
- DTMF Manual Encode²
- Timed Power Off
- DB-25 Accessory Connector
- 9 Programmable AUX I/Os
- 2 Programmable AUX Outputs
- Ignition Sense³
- Mil-Spec Standard Mic
- MIL-Spec 12-Key DTMF Mic Option
- Windows[®] Programming & Tuning⁴
- Windows[®] Firmware Uploading⁴
- Front Panel Test / Tune

- MIL-STD-810C/D/E/F
- MIL-STD "Driven-Rain"⁵
- IP-54/55 Water & Dust Intrusion⁵

CONVENTIONAL MODE⁶

- 32 Channels
- 12.5/25 kHz CH Spacing (per CH)
- QT / DQT Encode & Decode
- Normal Scan (No Priority)
- Scan Delete / Add
- Companded Audio (per CH)
- Time Out Timer
- Busy Channel Lockout (per CH)

TRUNKED MODE⁶

- 8 Network Capacity
- Multi-Site Network Trunking
- Single-Site Trunking
- Network Roaming/Registration
- 12.5/25 kHz Spacing (per network)
- Individual Call ("Private Calling")
- Group Call
- Broadcast Call
- Inter-fleet Calling
- Inter-Prefix Calling
- PTT Initiate Call

- PSTN / PABX Call
- Priority Call
- Emergency Call
- Pre-emptive Emergency
- Full Off Air Call Setup
- Network Call Queuing
- Call Prioritisation
- Third-Party Diversion
- Queue Incoming Call
- Special Alert Tones⁷
- Electronic Serial Number (ESN)
- Manual Conventional Mode
- 99 Call and Group Address List
- Home Address
- Companded Audio⁸
- Network Selector
- KAP-2 PA / Horn Alert Option⁹
- PAA2424 available

footnotes :

- 1 Easy Option Port: Supports Encryption boards only; ANI boards are not supported.
- 2 DTMF Manual Encode (DTMF microphone required)
- 3 KCT-46 ignition sense cable option required; plugs into mobile ignition sense pig-tail cable.
- 4 KPG-96D required: Windows[®] 98/ME/2000/XP/Vista (32-bit) compatible.
- 5 MIL-STD "Driven-Rain" and IP-55 Water/Dust Intrusion apply to remote control head only; IP54 applies to radio chassis.
- 6 Conventional Mode: Mode entry by PF key or auto Mode Change. Network / Trunking operations are MPT1327/1343 compatible.
- 7 Special Alert Tone Patterns: enabled for MPT Individual Call, Auto Mode Change.
- 8 Companded Audio can be enabled for all Channels in Trunked Mode and per Channel in Conventional Mode.
- 9 KAP-2 required: Public Address & Horn Alert operate in MPT mode only.



Options

<p>■ KMC-30 Microphone</p> 	<p>■ KMC-9C Control Station Desktop Microphone</p> 	<p>■ KAP-2 Horn Alert/Public Address Relay Unit</p> 	<p>■ KMB-10 Key Lock Adapter</p> 
<p>■ KMC-32 Keypad Microphone</p> 	<p>■ KRK-10 Control Head Remote Kit (23ft/7m)</p> 	<p>■ KES-3 External Speaker</p> 	<p>■ KLF-2 Line Noise Filter</p> 
<p>■ KMC-35 Microphone (heavy-duty)</p> 	<p>■ KCT-46 Ignition Sense Cable</p> 	<p>■ KES-5 External Speaker (requires KAP-2)</p> 	<p>■ KPS-10A DC Power Supply</p> 
<p>■ KMC-36 Keypad Microphone (heavy-duty)</p> 	<p>■ KCT-23M3 DC Cable (Remote mount / 23ft/7m)</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

TK-7185	
GENERAL	
Frequency Range	217-270 MHz
Number of Channels/Call Address	
Conv. Mode	Max.32 per personal
Trunked Network	Max.99 per personal
Channel Spacing	25 kHz/12.5 kHz
Operating Voltage	13.2 V DC (10.8 ~ 15.6V DC)
Current Drain	
Standby	0.4 A
Receive	1.0 A
Transmit	9.0 A
Operating Temperature Range	-30 °C ~ +60 °C
Frequency Stability	±2.5 ppm (-30 °C ~ +60 °C)
Antenna Impedance	50 Ω
Channel Frequency Spread	53 MHz
Dimensions (W x H x D), Projections not included	160 mm x 45 mm x 157 mm
Weight (net)	1.5 kg
Applicable Standards	EN300 086, EN300 113, EN300 219, EN301 489 EN60065, EN60950-1, EN60215 EU directive 95 / 54 / EC

TK-7185	
RECEIVER	
Sensitivity (EIA 12dB SINAD)	0.25 μV/0.28 μV
Sensitivity (EN 20dB SINAD)	-3 dB μV/-2 dB μV
25 kHz/12.5 kHz	
Adjacent Channel Selectivity	
25 kHz/12.5 kHz	80 dB/70 dB
Intermodulation	70 dB
Spurious Response Rejection	80 dB
Audio Output (4 Ω impedance)	4 W with less than 5 % distortion (Typical)
Measurement	EN standard
TRANSMITTER	
RF Output Power	Max. 25 W
Modulation Limiting	±5.0 kHz at 25 kHz ±2.5 kHz at 12.5 kHz
Spurious Emission	-36 dBm ≤ 1 GHz, -30 dBm > 1 GHz
FM Noise (EIA)	50 dB/45 dB
Modulation Distortion	Less than 3%
Microphone Impedance	600 Ω
Measurement	EN standard

Kenwood reserves the right to change specifications and features without prior notice.
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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	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 I, II	506.2/Procedure I, II	506.3/Procedure I, 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
International Protection Standard				
Dust & Water Protection	IP54: Radio itself IP54/55: Remote Head with KRK-10			

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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