



TK-7180(H)/8180(H) MPT

VHF/UHF MPT1327 Trunked Mobile Radios

GENERAL FEATURES

- 30W / 50W (136-174 MHz)
- 30W / 45W (450-520*, 400-470 MHz)
- Remote Control Head Option¹
- Backlit Dot Matrix LCD
- 12 Character Alphanumeric Aliases
- 3-Digit Sub-Display
- Function / Status LCD Icons
- Display Customization
- RSSI Indicator
- Date & 12/24 Hour Time Clock
- Transmit / Busy / Call Alert / Warn LED
- 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
- VGS-1 Voice Storage Option¹
- 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-810 C/D/E/F
- MIL-STD "Driven-Rain"⁵
- IP-54/55 Water & Dust Intrusion⁵

CONVENTIONAL ZONES⁶

- 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 ZONES⁶

- 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 Intiate Call
- PSTN/PABX Call
- Priority Call
- Emergency Call
- Pre-emptive Emergency
- Emergency Calling Features
- Emergency Man-Down Option
- Full Off Air Call Setup
- Network Call Queuing
- Call Prioritization
- Third-Party Diversion
- Queue Incoming Call
- Special Alert Tones⁷
- Electronic Serial Number (ESN)
- Manual Conventional Mode
- 250 Call and Group Address List
- Group Scan
- Home Address
- Direct Address
- Companded Audio⁸
- Network Selector
- KAP-2 PA/Horn Alert Option⁹



Options

- **KMC-35**
Microphone
(supplied microphone)
- **KMC-36**
Keypad Microphone
- **KMC-32**
Keypad Microphone
- **KMC-9C**
Control Station
Desktop Microphone
- **KRK-10**
Control Head
Remote Kit (23ft/7m)

- **KCT-46**
Ignition Sense Cable
- **KCT-40**
Radio Interface Cable
(for KDS-100, KGP-2A/2B)
- **KCT-23M**
DC Cable (Dash
mount / 10 feet)
- **KCT-23M3**
DC Cable (Remote
mount / 23 feet)
- **KAP-2**
Horn Alert/Public
Address Relay Unit

- **VGS-1**
Voice Guide &
Storage Unit
- **KES-3**
External Speaker
- **KES-5**
External Speaker
(requires KAP-2)
- **KMB-10**
Key Lock Adapter
- **KLF-2**
Line Noise Filter

- **KPS-10A**
DC Power Supply
- **KPS-15**
DC Power Supply

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-7180	TK-7180H	TK-8180	TK-8180H
GENERAL				
Frequency Range	136~174 MHz		450~520 MHz	
Type 1	136~174 MHz		450~520 MHz	
Type 2	-		400~470 MHz	
Number of Channels*	Max.32 per Radio			
Conv. Mode	1023			
Trunked Network	-			
Channel Spacing	25 kHz, 30 kHz		25 kHz	
Wide	25 kHz, 30 kHz		25 kHz	
Narrow	12.5 kHz, 15 kHz		12.5 kHz	
Operating Voltage	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	9.0 A	13.0 A	9.0 A	13.0 A
Duty Cycle	Transmit: 20 %			
Operating Temperature Range	-22 °F ~ +140 °F (-30 °C ~ +60 °C)			
Frequency Stability	±0.00025 % (-22 °F ~ +140 °F)			
Antenna Impedance	50 Ω			
Channel Frequency Spread				
Type 1	38 MHz		70 MHz	
Type 2	-		70 MHz	
Dimensions (W x H x D), Projections not included	6-5/16" x 1-3/4" x 6-3/16" (160 mm x 45 mm x 157 mm)			
Weight (net)	3.3 lbs. (1.5 kg)			
FCC ID				
Type 1	K4437303110	K4437303210	K4437313110	K4437313210
Type 2	-	-	K4437313120	K4437313220
IC Certification				
Type 1	282F-37303110	-	-	-
Type 2	-	-	282F-37313120	-

*Maximum capability depends on the number of programmed Zone and repeater channels.

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	P54: Radio itself P54/55: Remote Head with KRK-10
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*To meet above MIL810 and IP grade, weather proof microphone KMC-35 or KMC-36 has to be connected.

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