TK-7180(H)/8180(H)
VHF/UHF FM Mobile Radios

CONVENTIONAL ZONES
- 512 Channels / 128 Zones
- QT / DQT
- Two-Tone Decode
- Single / Two-Tone Encode
- Operator Selectable Tone

TRUNKED ZONES
- 512 GID / 128 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 Messages
- Power On/Off Status Messages
- Input / Output Status Messages
- FleetSync® GPS Ready
- Send GPS PF Key
- PTT ID & Emergency GPS Reporting
- Status Message Block GPS Reporting
- Ignition On/Off GPS Reporting
- VGS-1 GPS Data Storage
- PC Serial Interface

GENERAL FEATURES
- 30/50 W (136-174 MHz)
- 30/45 W (450-520, 400-470 MHz)
- Conventional & LTR® Zones
- MPT1327 Trunking Option
- Remote Control Head Option
- 12 Character Alphanumeric Aliases
- Backlit Dot Matrix LCD
- 3-Digit Sub-Display
- Function / Status LCD Icons
- RSSI Indicator
- Date & 12/24 Hour Time Clock
- Transmit / Busy / Call Alert / Warn LED
- 6 Backlit PF Keys
- Emergency / AUX Key
- Enhanced Kenwood Audio
- Front Panel Speaker
- Companded Audio
- Voice Inversion Scrambler Built-in
- Easy Option Port
- Encryption / ANI Board Control
- VGS-1 Voice Guide / Storage Option
- Emergency Call Features
- DTMF Encode / Decode
- Special Alert Tone Patterns
- Call Key
- Time Out Timer

• Busy Channel Lockout
• Timed Power Off
• DB-25 Accessory Connector
• 9 Programmable AUX I/Os
• 2 Programmable AUX Outputs
• Ignition Sense
• Public Address / Horn Alert Option
• MIL-Spec Standard Mic
• MIL-Spec 12-Key DTMF Mic Option
• Windows® Programming & Tuning
• Windows® Firmware Uploading
• Front Panel Test / Tune
• Cloning
• MIL-STD-810 C/D/E/F
• MIL-STD "Driven-Rain"
• IP-54/55 Water & Dust Intrusion

• Dual Priority Scan
• Single & Multi-Zone Scan
• List Scan
**Options**

- **KMC-35** Microphone (supplied microphone)
- **KMC-36** 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
- **KDS-100** Mobile Data Terminal
- **KGP-2A/2B** GPS Receiver / Modem Unit (requires KCT-39 option)

**Specifications**

### Dimensions (W x H x D), 6-5/16" x 1-3/4" x 6-3/16"

<table>
<thead>
<tr>
<th>Standard</th>
<th>MIL 810C Methods/Procedures</th>
<th>MIL 810D Methods/Procedures</th>
<th>MIL 810E Methods/Procedures</th>
<th>MIL 810F Methods/Procedures</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Low Pressure</strong></td>
<td>500.1/Procedure I</td>
<td>500.2/Procedure I, II</td>
<td>500.9/Procedure I, II</td>
<td>500.4/Procedure I, II</td>
</tr>
<tr>
<td><strong>High Temperature</strong></td>
<td>501.1/Procedure I, II</td>
<td>501.2/Procedure I, II</td>
<td>501.9/Procedure I, II</td>
<td>501.4/Procedure I, II</td>
</tr>
<tr>
<td><strong>Low Temperature</strong></td>
<td>502.1/Procedure I</td>
<td>502.2/Procedure I, II</td>
<td>502.3/Procedure I, II</td>
<td>502.4/Procedure I, II</td>
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<tr>
<td><strong>Solar Radiation</strong></td>
<td>503.1/Procedure I</td>
<td>503.2/Procedure I, II</td>
<td>503.3/Procedure I, II</td>
<td>503.4/Procedure I, II</td>
</tr>
<tr>
<td><strong>Rain</strong></td>
<td>506.1/Procedure I</td>
<td>506.2/Procedure I, II</td>
<td>506.9/Procedure I, II</td>
<td>506.4/Procedure I, II</td>
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<tr>
<td><strong>Humidity</strong></td>
<td>507.1/Procedure I, II</td>
<td>507.2/Procedure I, II</td>
<td>507.3/Procedure I, II</td>
<td>507.4/Procedure I, II</td>
</tr>
<tr>
<td><strong>Salt Fog</strong></td>
<td>509.1/Procedure I</td>
<td>509.2/Procedure I, II</td>
<td>509.9/Procedure I, II</td>
<td>509.4/Procedure I, II</td>
</tr>
<tr>
<td><strong>Dust</strong></td>
<td>510.1/Procedure I</td>
<td>510.2/Procedure I, II</td>
<td>510.9/Procedure I, II</td>
<td>510.4/Procedure I, III</td>
</tr>
<tr>
<td><strong>Vibration</strong></td>
<td>514.2/Procedure V8, X</td>
<td>514.3/Procedure X</td>
<td>514.4/Procedure X</td>
<td>514.5/Procedure X</td>
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<tr>
<td><strong>Shock</strong></td>
<td>516.2/Procedure I, II, V</td>
<td>516.3/Procedure X, V</td>
<td>516.4/Procedure I, V</td>
<td>516.5/Procedure I, V</td>
</tr>
</tbody>
</table>

**International Protection Standard**

- **Dust & Water Protection**
  - PS4: Radio itself
  - PS4SS: Remote Head with KRK-10

*To meet above MIL-10 and IP grade, weather proof microphone KMC-35 or KMC-36 has to be connected.

**Kensington Corporation**

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**Kenwood U.S.A. Corporation**

Communications Sector Headquarters

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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**

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<td>Applicable MIL-STD &amp; IP</td>
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**All technical specifications subject to change without notice.**

**FleetSync®** is a registered trademark of Kenwood Corporation.

**LTR®** is a registered trademark of Transcrypt Kenwood Corporation.

**Kenwood follows a policy of continuous advancement in development. For this reason Kenwood reserves the right to change the technical specifications without notice.**

**FleetSync®** selective call decode.

**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".**

**KPS-254** requires a KDS-100 and KCT-40.

**KPS-252** is not compatible.

**KPS-252** requires a KDS-100 and KCT-40.

**KPS-252** is not compatible.

**KPS-252** requires a KDS-100 and KCT-40.