

# KENWOOD

Listen to the Future

## TK-2312/3312

Compact VHF/UHF FM Portable Radios

FleetSync<sup>®</sup>  
by KENWOOD

### GENERAL FEATURES

- 5 W (136-174 MHz) Model
- 5 W (400-470 MHz) Models
- Conventional Zones
- 128 Channels / 128 Zones<sup>1</sup>
- Single Priority Scan
- Single & Multi-Zone Scan
- 8 Character Alphanumeric Aliases
- Backlit LCD
- Function / Status LCD Icons
- RSSI Indicator
- Transmit / Busy / Call Alert / Warn LED
- 4-Color LED (Blue/Red/Green/Orange)
- 7 Front Panel PF keys
- 2 Side PF Keys
- 500 mW Audio Power
- Enhanced Kenwood Audio
- Companded Audio (per CH)
- VOX Ready
- Voice Inversion Scrambler Built-in
- 16 Scrambler Codes (per CH)
- Emergency Call Features
- Lone Worker Alert
- QT / DQT
- Two-Tone Decode<sup>2</sup>
- Single / Two-Tone Encode<sup>2</sup>
- Operator Selectable Tone<sup>2</sup>
- DTMF Encode / Decode<sup>3</sup>
- FleetSync<sup>®</sup>/MDC-1200 (per Zone)

- Special Alert Tone Pattern<sup>4</sup>
- Call Key<sup>5</sup>
- Time Out Timer
- Busy Channel Lockout
- LCD Battery Status Indicator
- Low Battery Alert
- Battery Saver
- Windows<sup>®</sup> Programming & Tuning<sup>6</sup>
- Wireless Cloning
- Password Protection
- MIL-STD-810 C/D/E/F/G
- IP-54/55 Water & Dust Intrusion

### FleetSync<sup>®</sup>

- PTT ID Digital ANI
- Selective Call & Group Call<sup>7</sup>
- Status Messaging<sup>7</sup>
- Emergency Status
- Caller ID Display<sup>7</sup>
- Short Text Messages<sup>7</sup>
- Send GPS Data (KMC-48GPS)
- PTT ID & Emergency GPS Reporting
- Status Message Block GPS Reporting

### MDC-1200

- PTT ID Digital ANI
- Caller ID Display
- Emergency Status
- Radio Check
- Radio Inhibit



# Options

<ul style="list-style-type: none"> <li><b>KNB-29N</b> Ni-MH Battery Pack (1,500 mAh)</li> <li><b>KSC-31</b> Fast Charger (3-Hour)</li> <li><b>KRA-22</b> VHF Low Profile Helical Antenna</li> <li><b>KRA-23</b> UHF Low Profile Helical Antenna</li> <li><b>KRA-26</b> VHF Helical Antenna</li> <li><b>KRA-27</b> UHF Whip Antenna</li> </ul>	<ul style="list-style-type: none"> <li><b>KMC-45</b> Speaker Microphone</li> <li><b>KMC-21</b> Compact Speaker Microphone</li> <li><b>KMC-48GPS</b> GPS Speaker Microphone</li> <li><b>KEP-2</b> Earphone Kit (2.5mm plug)</li> <li><b>KHS-7A</b> Single-Muff Headset with In-line PTT</li> </ul>	<ul style="list-style-type: none"> <li><b>KHS-8BL</b> 2-wire Palm Mic with Earphone (Black)</li> <li><b>KHS-9BL</b> 3-wire Lapel Mic with Earphone (Black)</li> <li><b>KHS-22</b> Behind-the-head Headset with PTT</li> <li><b>KHS-23</b> 2-wire Palm Mic</li> <li><b>KHS-25</b> D-Ring Ear Hanger with PTT &amp; Boom Mic</li> <li><b>KHS-26</b> Earbud In-line PTT Headset</li> </ul>	<ul style="list-style-type: none"> <li><b>KHS-27</b> D-Ring In-line PTT Headset</li> <li><b>KMB-25</b> Six Unit Charger Adapter for six KSC-31K chargers (chargers not included)</li> <li><b>KBH-10</b> Belt Clip</li> </ul>
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# Specifications

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.

Model	TK-2312	TK-3312
<b>GENERAL</b>		
Frequency Range		
Type 1	136-174 MHz	-
Type 2	-	400-470 MHz
Number of Channels		
Zone/Channel	Max. 128 per Radio / Max. 128 per Zone	
Channel Spacing		
Wide/Narrow	25 kHz / 12.5 kHz	
Battery Voltage	7.5V DC±20%	
Battery Life	(5-5-90 duty cycle, during hi-power, battery saver off/on) with KNB-29N (1,500mAh) Approx. 10/14 hours	
Operating Temperature Range	-22°F ~ +140°F (-30°C ~ +60°C)	
Frequency Stability	±2.5ppm (-22°F ~ +140°F)	
Antenna Impedance	50 Ω	
Channel Frequency Spread		
Type 1	38 MHz	-
Type 2	-	70 MHz
Dimensions (W x H x D), Projections not Included		
Radio Only	2.13" x 4.8" x 0.83" (54 x 122 x 21.1 mm)	
with KNB-29N	2.13" x 4.8" x 1.33" (54 x 122 x 33.7 mm)	
Weight (net)		
Radio Only	6.3 oz (180 g)	
with KNB-29N	13.4 oz (380 g)	
FCC ID		
Type 1	ALH413700	-
Type 2	-	ALH413801
IC Certification		
Type 1	282D-413700	-
Type 2	-	282D-413801

Model	TK-2312	TK-3312
<b>RECEIVER (Measurements made per TIA/EIA-603)</b>		
Sensitivity (12dB SINAD)		
Wide		0.25 μV
Narrow		0.28 μV
Selectivity		
Wide		70 dB
Narrow		60 dB
Intermodulation Distortion		
Wide		70 dB
Narrow		60 dB
Spurious Response	70 dB	70 dB
Audio Distortion	Less than 5%	
Audio Output	500 mW / 8 Ω	
<b>TRANSMITTER (Measurements made per TIA/EIA-603)</b>		
RF Output Power		
High	5 W	5 W
Low	1 W	1 W
Spurious Response	70 dB	
Type of Emission		
Wide	16KØF3E	
Narrow	11KØF3E	
FM Hum & Noise		
Wide	45 dB	
Narrow	40 dB	
Audio Distortion	Less than 5%	

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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	MIL 810G Methods/Procedures
<b>Low Pressure</b>	500.1/Procedure I	500.2/Procedure I, II	500.3/Procedure I, II	500.4/Procedure I, II	500.5/Procedure I, II
<b>High Temperature</b>	501.1/Procedure I, II	501.2/Procedure I, II	501.3/Procedure I, II	501.4/Procedure I, II	501.5/Procedure I, II
<b>Low Temperature</b>	502.1/Procedure I	502.2/Procedure I, II	502.3/Procedure I, II	502.4/Procedure I, II	502.5/Procedure I, II
<b>Temperature Shock</b>	503.1/Procedure I	503.2/Procedure I	503.3/Procedure I	503.4/Procedure I, II	503.5/Procedure I
<b>Solar Radiation</b>	505.1/Procedure I	505.2/Procedure I	505.3/Procedure I	505.4/Procedure I	505.5/Procedure I
<b>Rain</b>	506.1/Procedure I, II	506.2/Procedure I, II	506.3/Procedure I, II	506.4/Procedure I, III	506.5/Procedure I, III
<b>Humidity</b>	507.1/Procedure I, II	507.2/Procedure II, III	507.3/Procedure II, III	507.4	507.5/Procedure II
<b>Salt Fog</b>	509.1/Procedure I	509.2/Procedure I	509.3/Procedure I	509.4	509.5
<b>Dust</b>	510.1/Procedure I	510.2/Procedure I	510.3/Procedure I	510.4/Procedure I, III	510.5/Procedure I
<b>Vibration</b>	514.2/Procedure VIII, X	514.3/Procedure I	514.4/Procedure I	514.5/Procedure I	514.6/Procedure I
<b>Shock</b>	516.2/Procedure I, II, V	516.3/Procedure I, IV	516.4/Procedure I, IV	516.5/Procedure I, IV	516.6/Procedure I, IV
<b>International Protection Standard</b>					
<b>Dust &amp; Water Protection</b>	IP54/55				

\*To meet IP 54/55, the 2-pin connector cover has to be connected on the radio or the locking bracket has to be attached to the KMC-45 speaker microphone.

Footnotes from front:

- Conventional Zones: 128 Channels / 128 Zones max. per radio; 128 CH max. per Zone.
- Two-Tone Decode (3 sets x 2 pairs each); Single / Two-Tone Encode (10 tones), Operator Selectable Tone (40 QT.DQT code pairs).
- DTMF Encode: PTT ID, Emergency ANI, Auto-Dial (16 numbers); DTMF Decode: Code Squelch (3-10 digit), Selective Call (9-digit with status) Group Codes A, B, C, D & Wild Card characters and Radio Stun.
- Special Alert Tone Patterns operate for 2-Tone, DTMF, Fletsync™ selective call decode.
- Call Key 1, 2, & 3: operates for 2-Tone, DTMF and Fletsync™ status encode.
- KPG-134D required: Windows® XP/Vista/7 compatible; English/Spanish/French screen languages.
- ID List capacity is 100 ID's; Short Text Messages are radio stored & LCD displayed; Status Message List capacity is 50.

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