

# KENWOOD

Listen to the Future



## TK-2302V/3302U

Compact VHF/UHF FM Portable Radios

FleetSync®  
by KENWOOD

Ver 2.0



### GENERAL FEATURES

- 5 W (136-174 MHz) VHF
- 4 W (450-490 MHz) UHF
- 16 Channels
- Single Priority / Normal Scan
- Transmit / Busy / Call Alert Scan / Warn LED
- 2 PF Keys
- 500 mW Speaker Audio
- Enhanced Kenwood Audio
- Companded Audio Capable
- Voice Annunciation
- VOX Ready
- Voice Inversion Scrambler Built-in
- Emergency Call Features
- Lone Worker Alert
- QT / DQT
- DTMF Encode / Decode<sup>1</sup>
- Time Out Timer
- Busy Channel Lockout
- Low Battery Warning
- Battery Saver

- Windows® Programming & Tuning<sup>2</sup>
- MIL-STD-810 C/D/E/F
- IP-54/55 Water & Dust Intrusion

### FleetSync®

- PTT ID Digital ANI
- Selective Call<sup>3</sup>
- Emergency Status

### MDC-1200

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

### ACCESSORIES INCLUDED

- KNB-45L Li-ion Battery
- KSC-35K 3-Hour Fast Charger
- KBH-10 Spring Action Belt Clip
- Removable Antenna

# Options

<ul style="list-style-type: none"> <li>■ <b>KNB-45L</b> Li-Ion Battery Pack (2000 mAh)</li> <li>■ <b>KSC-35K</b> Fast Charger (3-Hour)</li> <li>■ <b>KRA-16</b> VHF Stubby Antenna</li> <li>■ <b>KRA-17</b> UHF Stubby Antenna</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> </ul>	<ul style="list-style-type: none"> <li>■ <b>KRA-27</b> UHF Whip Antenna</li> <li>■ <b>KMC-45</b> Compact Speaker Microphone</li> <li>■ <b>KMC-21</b> Lightweight Compact Speaker Microphone</li> <li>■ <b>KEP-2</b> Earphone Kit (2.5mm plug)</li> <li>■ <b>KHS-7</b> Single-Muff Headset</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/BE</b> 2-wire Palm Mic with Earphone (Black/Beige)</li> <li>■ <b>KHS-9BL/BE</b> 3-wire Lapel Mic with Earphone (Black/Beige)</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</li> <li>■ <b>KMB-28</b> Six Unit Charger Adapter for six KSC-35K chargers</li> <li>■ <b>KBH-10</b> Belt Clip</li> <li>■ <b>KWR-1</b> Water Resistance Bag</li> <li>■ <b>KLH-126</b> Nylon Case</li> </ul>
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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

Model	TK-2302VK	TK-3302UK
<b>GENERAL</b>		
Frequency Range Type 1	136-174 MHz	450-490 MHz
Number of Channels	16	
Channel Spacing Wide/Narrow	25 kHz/12.5 kHz	
Operating Voltage	7.5V DC±20%	
Battery Life (5-5-90 during hi-power battery saver: OFF/ON) with KNB-45L (2000mAh)	Approx. 12 hours / 18 hours	
Operating Temperature Range	-22°F ~ +140°F (-30°C ~ +60°C)	
Frequency Stability	±2.5 ppm (-30°C ~ +60°C)	
Antenna Impedance	50 Ω	
Dimensions (W x H x D), Projections not included with KNB-45L	2.13" x 4.8" x 1.33" (54 x 122 x 33.8 mm)	
Weight (Net) Radio Only with KNB-45L	5.6oz (160g) 9.9oz (280g)	
FCC ID Type 1	ALH413500	ALH413600

Kenwood follows a policy of continuous advancement in development.  
For this reason specifications may be changed without notice.  
FleetSync® is a registered trademark of Kenwood Corporation.  
Windows® is a registered trademark of Microsoft Corporation in the United States and other countries.

Model	TK-2302VK	TK-3302UK
<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	65 dB	
Narrow	60 dB	
Spurious Response	65 dB	60 dB
Audio Output (8 Ω Impedance)	500mW with less than 10% distortion	
<b>TRANSMITTER (Measurements made per TIA/EIA-603)</b>		
RF Power Output		
High	5 W	4 W
Low	1 W	1 W
Spurious Response	65 dB	
Type of Emission		
Wide	16K0F3E	
Narrow	11K0F3E	
FM Noise (EIA)		
Wide	45 dB	
Narrow	40 dB	
Audio Distortion	Less than 5%	

# 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, V	516.3/Procedure I, IV	516.4/Procedure I, IV	516.5/Procedure I, IV
<b>International Protection Standard</b>				
Dust & Water Protection	IP54/55			

Footnotes from front:  
<sup>1</sup> DTMF Encode: PTT ID, Auto-Dial (8 numbers); DTMF Decode: Group Codes (A, B, C, D, # and \*) and Radio Stun.  
<sup>2</sup> KPG-119D required: Windows®98/ 2000/ Me/XP/Vista compatible.  
<sup>3</sup> ID List capacity: 8 ID's.

\*To meet IP54/55, the 2-pin connector cover has to be connected on the radio or the locking bracket has to be attached to the KMC-45 external speaker microphone.

# KENWOOD

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