

# KENWOOD

## TK-2402/3402

Compact VHF/UHF FM 5-Watt Portable Radios

FleetSync®



### GENERAL FEATURES

- 5 W (136-174 MHz) VHF
- 5 W (450-520, 400-470 MHz) UHF
- 16 Channels
- Single Priority / Normal Scan
- Transmit / Busy / Call Alert Scan / Warn LED
- 4-Color LED (Blue/Red/Green/Orange)
- 2 PF Keys
- 1.0 W Speaker Audio
- Enhanced Kenwood Audio
- Companded Audio (per CH)
- Voice Annunciation
- VOX Ready
- Voice Inversion Scrambler Built-in
- 16 Scrambler Codes (per CH)
- Emergency Call Features
- Lone Worker Alert (per CH)
- QT / DQT
- Two-Tone Decode<sup>1</sup>
- Single / Two-Tone Encode<sup>1</sup>
- DTMF Encode / Decode<sup>2</sup>
- Special Alert Tone Pattern<sup>3</sup>
- Time Out Timer
- Busy Channel Lockout
- Low Battery Warning
- Battery Saver

- Windows® Programming & Tuning<sup>4</sup>
- Wireless Cloning
- Password Protection
- MIL-STD-810 C/D/E/F/G
- IP-54/55 Water & Dust Intrusion

### FleetSync®

- PTT ID Digital ANI
- Selective Call & Group Call<sup>5</sup>
- Paging Call
- Emergency Status
- Send GPS Data (KMC-48GPS)

### 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-29N</b> Ni-MH Battery Pack (1,500mAh)</li> <li>■ <b>KNB-45L</b> 2,000mAh/7.4V Li-Ion Battery Pack</li> <li>■ <b>KNB-69L</b> 2,550mAh/7.4V Li-Ion Battery Pack</li> <li>■ <b>KSC-35SK</b> Fast Charger For the KNB-45L/69L (3-Hour)</li> <li>■ <b>KSC-43K</b> Dual Chemistry Fast Charger For the KNB-29N/45L/69L</li> <li>■ <b>KVC-22</b> DC Vehicular Charger Adapter</li> <li>■ <b>KRA-41</b> VHF Stubby Antenna</li> <li>■ <b>KRA-42</b> UHF Stubby Antenna</li> </ul>	<ul style="list-style-type: none"> <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> <li>■ <b>KMC-48GPS</b> GPS Speaker Microphone</li> <li>■ <b>KMC-45</b> Speaker Microphone</li> <li>■ <b>KMC-21</b> Compact Speaker Microphone</li> </ul>	<ul style="list-style-type: none"> <li>■ <b>KEP-2</b> Earphone Kit for KMC-45 (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> <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> </ul>	<ul style="list-style-type: none"> <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> <li>■ <b>KHS-27</b> D-Ring In-line PTT Headset</li> <li>■ <b>KHS-31</b> C-Ring PTT Ear Hanger Headset</li> <li>■ <b>KMB-28</b> Six Unit Charger Adapter (for six KSC-35SK chargers) (chargers not included)</li> <li>■ <b>KBH-10</b> Belt Clip</li> <li>■ <b>KLH-187</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-2402	TK-3402
<b>GENERAL</b>		
Frequency Range		
Type 1	136-174 MHz	450-520 MHz
Type 2	-	400-470 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)	More than 12 / 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 1.32 inch (54 x 122 x 33.7 mm)	
Weight (Net)		
Radio Only	5.8oz (165g)	
with KNB-45L	9.9oz (281g)	
FCC ID		
Type 1	ALH434900	ALH435000
Type 2	-	ALH435001

\*-14°F ~ +140°F (-10°C ~ +60°C) When KNB-29N/45L is in use

\*\*25kHz is not for sale in the USA or US territories.

Specifications are subject to change without notice, due to advancements in technology.

FleetSync® is a registered trademark of JVCENWOOD Corporation.

Windows® is a registered trademark of Microsoft Corporation in the United States and other countries.

# 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
Low Pressure	500.1/Procedure I	500.2/Procedure I, II	500.3/Procedure I, II	500.4/Procedure I, II	500.5/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	501.5/Procedure I, II
Low Temperature	502.1/Procedure I	502.2/Procedure I, II	502.3/Procedure I, II	502.4/Procedure I, II	502.5/Procedure I, II
Temperature Shock	503.1/Procedure I	503.2/Procedure I	503.3/Procedure I	503.4/Procedure I, II	503.5/Procedure I
Solar Radiation	505.1/Procedure I	505.2/Procedure I	505.3/Procedure I	505.4/Procedure I	505.5/Procedure I
Rain	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
Humidity	507.1/Procedure I, II	507.2/Procedure I, III	507.3/Procedure II, III	507.4	507.5/Procedure II
Salt Fog	509.1/Procedure I	509.2/Procedure I	509.3/Procedure I	509.4	509.5
Dust	510.1/Procedure I	510.2/Procedure I	510.3/Procedure I	510.4/Procedure I, III	510.5/Procedure I
Vibration	514.2/Procedure VIII, X	514.3/Procedure I	514.4/Procedure I	514.5/Procedure I	514.6/Procedure I
Shock	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>					
Dust & Water Protection	IP54/55*				

\*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.

Model	TK-2402	TK-3402
<b>RECEIVER (Measurements made per TIA/EIA-603)</b>		
Sensitivity (12dB SINAD)		
Wide/Narrow	0.25µV/0.28µV	
Selectivity		
Wide/Narrow	70dB/60dB	
Intermodulation Distortion		
Wide/Narrow	70dB/60dB	
Spurious Response	70 dB	
Audio Distortion	less than 10% distortion	
Audio Output	1 W / 12 Ω (Internal Speaker) 500mW / 8 Ω (External Speaker)	
<b>TRANSMITTER (Measurements made per TIA/EIA-603)</b>		
RF Power Output		
High/Low	5W/1W	
Spurious Response	70 dB	
FM Hum & Noise		
Wide/Narrow	45/40dB	
Audio Distortion	Less than 5%	
Type of Emission		
Wide/Narrow	16K0F3E**/11K0F3E	

Footnotes from front:

<sup>1</sup> Two-Tone Decode (3 sets x2 pairs each); Single / Two-Tone Encode (1 tone).

<sup>2</sup> DTMF Encode: PTT ID, Emergency ANI, Auto-Dial (8 numbers); DTMF Decode:

Selective Call (10-digit ID Code, Group Codes; A, B, C, D, & Wild Card characters),

and Radio Stun.

<sup>3</sup> Special Alert Tone Pattern operates for 2-Tone, DTMF; FleetSync® selective call decode.

<sup>4</sup> KPG-159DN required: Windows®XP / Vista / 7 compatible.

<sup>5</sup> ID List capacity: 8 ID's; 10 Group ID's; Status 1 & 2 (10-99).

# KENWOOD

Kenwood U.S.A. Corporation  
Communications Sector Headquarters

3970 Johns Creek Court, Suite 100, Suwanee, GA 30024-1265

Order Administration/Distribution

P.O. BOX 22745, 2201 East Dominguez St., Long Beach, CA 90801-5745



www.kenwoodusa.com



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JVCENWOOD Corporation

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