

# 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

## ■ KNB-29N

Ni-MH Battery Pack  
(1,500mAh)

## ■ KNB-45L

2,000mAh/7.4V  
Li-Ion Battery Pack

## ■ KNB-69L

2,550mAh/7.4V  
Li-Ion Battery Pack

## ■ KSC-35SK

Fast Charger  
For the KNB-45L/69L

## ■ KSC-43K

Dual Chemistry Fast Charger  
For the KNB-29N/45L/69L

## ■ KVC-22

DC Vehicular  
Charger Adapter

## ■ KRA-41

VHF Stubby Antenna

## ■ KRA-42

UHF Stubby Antenna

## ■ KRA-22

VHF Low Profile  
Helical Antenna

## ■ KRA-23

UHF Low Profile  
Helical Antenna

## ■ KRA-26

VHF Helical Antenna

## ■ KRA-27

UHF Whip Antenna

## ■ KMC-48GPS

GPS Speaker Microphone

## ■ KMC-45

Speaker Microphone

## ■ KMC-21

Compact Speaker  
Microphone

## ■ KEP-2

Earphone Kit for  
KMC-45 (2.5mm plug)

## ■ KHS-7

Single Muff Headset

## ■ KHS-7A

Single Muff Headset  
with In-line PTT

## ■ KHS-8BL

2-wire Palm Mic  
with Earphone (Black)

## ■ KHS-9BL

3-wire Lapel Mic  
with Earphone (Black)

## ■ KHS-22

Behind-the-head  
Headset with PTT

## ■ KHS-23

2-wire Palm Mic

## ■ KHS-25

D-Ring Ear Hanger  
with PTT & Boom Mic

## ■ KHS-26

Earbud In-line  
PTT Headset

## ■ KHS-27

D-Ring In-line  
PTT Headset

## ■ KHS-31

C-Ring PTT Ear  
Hanger Headset

## ■ KMB-28

Six Unit Charger  
Adapter (for six  
KSC-35SK chargers) (chargers not included)

## ■ KBH-10

Belt Clip

## ■ KLH-187

Nylon Case

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

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Professional Systems Business Group  
JVCENWOOD Corporation

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