KENWOOD

TK-2312/3312

Compact VHF/UHF FM Portable Radios

FleetSync®

GENERAL FEATURES

- 5 W (136-174 MHz) Model
- 5 W (450-520, 400-470 MHz) Models
- Conventional Zones
- 128 Channels / 128 Zones[1]
- 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[2]
- Single / Two-Tone Encode[2]
- Operator Selectable Tone[2]
- DTMF Encode / Decode[3]
- FleetSync®/MDC-1200 (per Zone)
- Special Alert Tone Pattern[4]
- Call Key[5]
- Time Out Timer
- Busy Channel Lockout
- LCD Battery Status Indicator
- Low Battery Alert
- Battery Saver
- Windows® Programming & Tuning[6]
- 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[7]
- Status Messaging[7]
- Emergency Status
- Caller ID Display[7]
- Short Text Messages[7]
- 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

- **KNB-45L** Li-Ion Battery Pack (2000 mAh)
- **KSC-35K** Fast Charger (3-Hour)
- **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-45** Speaker Microphone
- **KMC-21** Compact Speaker Microphone
- **KMC-48GPS** GPS Speaker Microphone
- **KEP-2** Earphone Kit (2.5mm plug)
- **KHS-7** Single-Muff Headset
- **KHS-7A** Single-Muff Headset with In-line PTT
- **KHS-8BL/BE** 2-wire Palm Mic with Earphone (Black/Beige)
- **KHS-9BL/BE** 3-wire Lapel Mic with Earphone (Black/Beige)
- **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
- **KMB-25** Six Unit Charger Adapter (chargers not included)
- **KMB-28** Six Unit Charger Adapter for six KSC-35K chargers (chargers not included)
- **KBH-10** Belt Clip
- **KWR-1** Water Resistance Bag

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-2312	TK-3312
GENERAL		
Frequency Range		
Type 1	136-174 MHz	450-520 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)	
with KNB-45L (2,000mAh)	Approx. 12 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	70 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-45L	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-45L	10.6 oz (300 g)	
FCC ID		
Type 1	ALH413700	Pending
Type 2	-	ALH413801
IC Certification		
Type 1	282D-413700	-
Type 2	-	282D-413801

Model	TK-2312	TK-3312
RECEIVER (Measurements made per TIA/EIA-603)		
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	
TRANSMITTER (Measurements made per TIA/EIA-603)		
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%	

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

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 II, 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
International Protection Standard					
Dust & Water Protection		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 mirophone.*

Footnotes from front:

1. *Conventional Zones: 128 Channels /128 Zones max. per radio; 128 CH max. per Zone.*
2. *Two-Tone Decode (3 sets x 2 pairs each); Single / Two-Tone Encode (10 tones), Operator Selectable Tone (40 QT.DQT code pairs).*
3. *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.*
4. *Special Alert Tone Patterns operate for 2-Tone, DTMF, FleetSync® selective call decode.*
5. *Call Key 1, 2, & 3: operates for 2-Tone, DTMF and FleetSync® status encode.*
6. *KPG-134D required: Windows® XP/Vista/7 compatible; English/Spanish/French screen languages.*
7. *ID List capacity is 100 ID's; Short Text Messages are radio stored & LCD displayed; Status Message List capacity is 50.*

KENWOOD

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