

KENWOOD

Listen to the Future



TK-5220/5320

VHF/UHF FM & P25 Digital Portable Radios



FleetSync
by KENWOOD

GENERAL FEATURES

- 5 Watt (136-174 MHz)
- 5 Watt (400-470, 450-520 MHz)
- 128 Zones / 512 Channels
- Backlit Dot Matrix LCD
- 14 Character Alphanumeric Aliases
- 3-Digit Sub-Display
- Function / Status LCD Icons
- RSSI Indicator
- Transmit / Busy / Call Alert / Warn LED
- On/Off Volume Knob
- 16-Position Selector Knob
- 4 Front Menu-Driven PF Keys
- 2 Side PF Keys

- Orange Emergency / AUX Key
- 12-Keypad Models
- VOX Ready
- Emergency Features
- Battery Level
- Transceiver Password
- Date & 12/24 Hour Time Clock
- Windows® Programming & Tuning
- Windows® Firmware Uploading
- Easy Option Port
- Voice Guide & Storage (option)
- Weather-Sealed Accessory Connector
- MIL-STD-810 C/D/E/F
- IP54/55 Water & Dust Protection
- Immersion (IP67) Option
- Intrinsically Safe Option

FleetSync® /II (FM)

- PTT ID Digital ANI
- Caller ID Display
- Status Messaging
- Emergency & Stun Statuses
- Selective & Group Call
- Text Messaging
- Send/Display GPS (KPG-38GPS)

MDC-1200

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

SCAN TYPES (FM & P25)

- Single Zone/Multi-Zone Scan
- Scan Lists¹
- Conventional Scan
- Limited Talk Group Scan¹
- Priority Monitor Scan¹
- Dual Priority Scan

FM













- QT / DQT
- Operator Selectable Tone
- Two-Tone Decode / Encode
- DTMF Encode / Decode / Stun
- Special Alert Tone Patterns
- Companded Audio

P25 DIGITAL

- P25 Digital Conventional
- AMBE+2™ Enhanced VOCODER
- Talk Group ID Lists
- Individual ID Lists
- Caller ID Display
- Remote Monitor / Check, Radio Inhibit
- Encryption Key Zeroize and Retention
- DES Encryption Module
- AES & DES Encryption Module
- KPG-93 KVL Key Loader Interface Cable
- P25 Digital Trunking Option



Options

<ul style="list-style-type: none"> ■ KNB-47L Li-Ion Battery (1950 mAh) ■ KNB-48L Li-Ion Battery (2550 mAh) ■ KNB-50NC Ni-MH Battery Intrinsicly Safe (2000 mAh) ■ KBP-7 Alkaline Battery Case ■ KSC-32 Tri-chemistry Rapid Rate Charger ■ KSC-326 Rapid Rate Six Unit Charger 	   	<ul style="list-style-type: none"> ■ KPG-93 Keyloader Interface Cable ■ KVC-15 Rapid Rate Vehicular Charger Adapter for KSC-32 ■ KVC-20L D.C. Vehicular Charger Li-Ion/Polymer ■ KRA-22/23 VHF/UHF Helical Antenna ■ KRA-26/27 VHF/UHF Whip Antenna ■ KRA-16/17 VHF/UHF Stubby Antenna 	     	<ul style="list-style-type: none"> ■ KRA-25 VHF High Gain Antenna ■ KMC-41M MIL-STD & IP 54/55 Speaker Microphone ■ KMC-38GPS GPS Speaker Microphone ■ KEP-1 Heavy Duty Earphone ■ KHS-11BL 2-Wire Mini Lapel Mic. with Earphone ■ KHS-12BL 3-Wire Mini Lapel Mic. with Earphone 	     	<ul style="list-style-type: none"> ■ KHS-14 Lightweight Single Muff Headset ■ KHS-15-OH Over-the-Head Heavy Duty Headset ■ KHS-15-BH Behind-the-Head Heavy Duty Headset ■ VGS-1 Voice Guide & Storage Unit ■ KBH-11 Belt Clip (2.5") 	    
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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-5220	TK-5320
GENERAL		
Frequency Range		
Type 1	136-174 MHz	450-520 MHz
Type 2		400-470 MHz
Number of Channels	512	
Zones	128	
Max. Channels per Zone	250	
Channel Spacing		
Analog	12.5 / 15 / 25 / 30 kHz	12.5 / 25 KHz
Digital	12.5 kHz	12.5 kHz
Operating Voltage	7.5 VDC ± 20 %	
Battery Life	5-5-90 duty cycle	12.5 hours
(with KNB-48L)	10-10-80 duty cycle	8.5 hours
Operating Temperature Range	-22° F to +140° F (-30° C to +60° C)	
Frequency Stability	± 2.0 ppm	± 1.0 ppm
Antenna Impedance	50 Ω	
Dimensions (W x H x D) (projections not included)		
Radio Only	2.28 x 5.02 x 1.63 in. (58 x 127.5 x 41.3 mm.)	
with KNB-47L	2.28 x 5.02 x 1.63 in. (58 x 127.5 x 41.3 mm.)	
with KNB-48L	2.28 x 5.02 x 1.91 in. (58 x 127.5 x 48.5 mm.)	
Weight (Net)		
Radio Only	8.82 oz. (250 g)	
with KNB-47L	13.23 oz. (375 g)	
with KNB-48L	14.29 oz. (405 g)	
FCC ID		
Type 1	ALH378400	ALH378500
Type 2		ALH378501
IC Certification		
Type 1	282D-378400	282D-378500
Type 2		282D-378501

Model	TK-5220	TK-5320
RECEIVER		
Sensitivity		
Digital (5 % BER)		0.25 µV
Digital (1 % BER)		0.40 µV
Analog 12 dB SINAD		0.25 µV
Selectivity		
Digital		-60 dB
Analog @ 25kHz		-72 dB
Analog @ 12.5 kHz		-65 dB
Intermodulation Distortion		-70 dB
Spurious & Image		-75 dB
Audio Distortion		Less than 3.0 %
Audio Output		500 mW / 8 Ω
TRANSMITTER		
RF Power Output	5 W / 1 W	
Spurious & Harmonics	70 dB	
FM Hum & Noise		
Analog @ 25 kHz	45 dB	
Analog @ 12.5 kHz	40 dB	
Audio Distortion	Less than 3 %	
Modulation	11K0F3E, 16K0F3E, 8K10F1E, 8K10F1D	

Analog measurements made per TIA/EIA 603
 Digital measurements made per TIA/EIA 102CAAA
 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.
 AMBE+2™ is a trademark of Digital Voice Systems Inc.
 The P25 Logo is used under license and is a registered trademark of the Project 25 Technology Interest Group.
 KPG-93 adapts the Motorola, KVL3000/3000 Plus Key Loader to the TK-5220/5320.

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
Immersion(option)	512.1/Procedure I	512.2/Procedure I	512.3/Procedure I	512.4/Procedure I
International Protection Standard				
Dust & Water Protection	IP54/55			
Immersion	IP67*			

*IP67 optional package.

footnotes from front:
 † Scan Lists currently available in analog mode. Scan Lists (P25), Limited Talk Group Scan and Priority Monitor Scan available in a future P25 trunked option release.

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