

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

■ KNB-47L

Li-Ion Battery
(1950 mAh)

■ KNB-48L

Li-Ion Battery
(2550 mAh)

■ KNB-50NC

Ni-MH Battery
Intrinsically Safe
(2000 mAh)

■ KBP-7

Alkaline Battery Case

■ KSC-32

Tri-chemistry Rapid
Rate Charger

■ KSC-326

Rapid Rate Six Unit
Charger

■ 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

■ 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

■ 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")

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	
(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:

¹ 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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ADS#06011 Printed in USA