

KENWOOD

Listen to the Future

NEW PRODUCT • NEW PRODUCT • NEW PRODUCT • NEW PRODUCT • NEW PRODUCT • NEW PRODUCT • NEW PRODUCT • NEW PRODUCT • NEW PRODUCT • NEW PRODUCT



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
- Encryption / ANI Board Control
- 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 *
- P25 GPS Location *

*Future availability



Options

■ KNB-47L

Li-Ion Battery
(1950 mAh)

■ KNB-48L

Li-Ion Battery
(2550 mAh)

■ KNB-50NC

Ni-MH Battery
Intrinsically Safe
(2000 mAh)

■ 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-38GSP

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

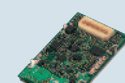
Behind-the-Head
Heavy Duty Headset

■ 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 | 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* | | | |

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.

*Future availability

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

Kenwood Electronics Canada Inc.
Canadian Headquarters and Distribution

6070 Kestrel Road, Mississauga, Ontario, Canada L5T 1S8

