

KENWOOD

Listen to the Future



TK-5210

VHF FM & Project 25 Digital Portable Radio



FleetSync[®]
by KENWOOD

GENERAL FEATURES

- 5 Watt (136-174 MHz)
- 50 Zones / 512 Channels
- Personality Lists
- Backlit Dot Matrix LCD¹
- 16 Character Alphanumeric Aliases¹
- 3-Digit Sub-Display¹
- Function / Status LCD Icons¹
- Transmit / Busy / Call Alert / Warn LED
- On/Off Volume Knob
- 16-Position Selector Knob
- 2-Position PF Lever Switch
- 3-Position PF Concentric Switch
- 4 Front Menu-Driven PF Keys¹
- 3 Side PF Keys
- Orange Emergency / AUX Key
- 12-Key DTMF / PF Keypad²
- Enhanced Kenwood Audio
- Voice Annunciation
- VOX Ready
- Emergency Call Features
- Emergency Man-Down Option
- Tactical Group¹
- Battery Level Indicator¹
- Transceiver Password¹
- Date & 12/24 Hour Time Clock¹
- Windows[®] Programming & Tuning³
- Windows[®] Firmware Uploading³
- Field-Programming & Tuning¹
- Cloning¹
- Easy Option Port
- Weather-Sealed Accessory Connector
- MIL-STD-810 C/D/E/F
- IP54/55 Water & Dust Intrusion
- Immersion Option
- Intrinsically Safe Option

SCAN TYPES (FM & P25)

- Dual Priority Scan
- Scan Lists
- Limited Talk Group Scan⁴
- Priority Monitor Scan⁴

FM

- QT / DQT
- Operator Selectable Tone
- Two-Tone Decode
- DTMF Encode / Decode / Stun
- Special Alert Tone Patterns⁵
- Encryption / ANI Board Control
- Companded Audio

FleetSync[®] (FM)

- FleetSync[®] or FleetSync[®] II
- PTT ID Digital ANI
- Emergency Status
- Selective & Group Call
- Status Messaging
- Text Messaging
- Caller ID Display

P25 DIGITAL

- P25 Digital Conventional
- P25 Digital Trunking Option
- IMBE[™] VOCODER
- Talk Group ID Lists
- Individual ID Lists
- Caller ID Display
- RSSI Indicator⁴
- Remote Monitor/Remote Check
- Radio Inhibit
- Encryption Key Delete
- AES/DES 16-Key Encryption Options
- Windows[®] DES/AES Programming³
- KPG-93 KVL Key Loader Interface Cable⁶


















Three models available:

K - Basic Unit: No LCD, No front Keys

K2 - 16-Character LCD, 4 Menu-driven PF Keys

K3 - 16-Character LCD, 4 Menu-driven PF Keys, 12-Key DTMF/PF Keypad

Options

| | | | |
|--|---|---|--|
| <p>■ KNB-32N Ni-MH Rechargeable Battery Pack (2500 mAh)</p>  | <p>■ KRA-22 VHF Helical Antenna</p>  | <p>■ KMC-25 Speaker Microphone</p>  | <p>■ KHS-15-BH Heavy Duty Behind-the-Head Headset</p>  |
| <p>■ KSC-32 Tri-chemistry Rapid Charger</p>  | <p>■ KRA-26 VHF Helical Antenna</p>  | <p>■ KEP-1 Heavy Duty Earphone</p>  | <p>■ KHS-15-OH Heavy Duty Over-the-Head Headset</p>  |
| <p>■ KPG-93 Keyloader Interface Cable</p>  | <p>■ KRA-16 VHF Stubby Antenna</p>  | <p>■ KHS-11 2-Wire Palm Mic with Earphone</p>  | <p>■ KBH-11 Belt Clip (2.5")</p>  |
| | <p>■ KRA-25 VHF High Gain Antenna</p>  | <p>■ KHS-14 Lightweight Single Muff Headset</p>  | |
| | <p>■ KRA-28 VHF Broad Band High Gain Antenna</p>  | | |

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-5210 |
|---|---|
| GENERAL | |
| Models | |
| TK-5210K | Basic Model |
| TK-5210K2 | 4-key w/LCD Model |
| TK-5210K3 | Full key w/LCD Model |
| Frequency Range | 136-174 MHz |
| Number of Channels | 512 |
| Zones | 50 |
| Max. Channels per Zone | 250 |
| Channel Spacing | |
| Analog | 12.5 / 15 / 20 / 25 / 30 kHz |
| Digital | 12.5 kHz |
| Operating Voltage | 7.5 VDC ± 20 % |
| Battery Life (@ 5-5-90 duty cycle) | |
| KNB-32N, 7.5 VDC, 2500 mAh | 12 hours |
| Operating Temperature Range | -22° F to +140° F (-30° C to +60° C) |
| Frequency Stability (-22° F to +140° F) | ± 2.0 ppm |
| Antenna Impedance | 50 Ω |
| Dimensions (W x H x D) (projections not included) | |
| with KNB-32N | 2-5/16 x 6-3/32 x 1-13/16 in. (58 x 155 x 45.7 mm) |
| Weight (Radio only) | |
| TK-5210K | 11.11 oz. (315 g) |
| TK-5210K2 | 11.64 oz. (330 g) |
| TK-5210K3 | 11.64 oz. (330 g) |
| Weight (TK-5210K2 with KRA-22 & Belt Clip) | |
| with KNB-32N | 23.28 oz. (660 g) |
| FCC ID | ALH35733110 |
| IC Certification | 282D-35733110 |

| Model | TK-5210 |
|----------------------------|------------------------------------|
| 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 @ 25/30 kHz | -78 dB |
| Analog @ 12.5 kHz | -67 dB |
| Intermodulation Distortion | |
| Digital | -75 dB |
| Analog | -75 dB |
| Spurious & Image | |
| Digital | -80 dB |
| Analog | -80 dB |
| Audio Distortion | |
| Digital | Less than 1.5 % |
| Analog | Less than 2 % |
| Audio Output | 500 mW / 8 Ω |
| TRANSMITTER | |
| RF Power Output | 5 W / 1 W |
| Spurious & Harmonics | 70 dB |
| FM Hum & Noise | |
| Analog @ 25 kHz | 50 dB |
| Analog @ 12.5 kHz | 45 dB |
| Audio Distortion | |
| Modulation | 16K0F3E, 11K0F3E, 8K10F1E, 8K10F1D |

Analog measurements made per TIA/EIA 603
 Digital measurements made per TIA/EIA 102CAAA
 Kenwood reserves the right to change specifications without prior notice or obligation.
 FleetSync® is a registered trademark of Kenwood Corporation.
 Windows® is a registered trademark of Microsoft Corporation in the United States and other countries.
 IMBE™ is a trademark of Digital Voice Systems Inc.

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 | | | |
| Dust & Water Jet Intrusion | IP66* | | | |
| Immersion | IP67* | | | |

*IP66/67 Optional Package

footnotes from Front:

- 1 K2/K3 LCD models only.
- 2 K3 LCD, keypad model only models), Auto-Dial (9 numbers) & Stun.
- 3 KPG-95D Software: Windows® 98/NT/2000/Me/XP compatible.
- 4 P25 Trunking Option required.
- 5 Operates for 2-Tone, DTMF, FleetSync® selective calling in FM mode only.
- 6 KPG-93 adapts the Motorola®, KVL3000/3000 Plus Key Loader to the TK-5210.

KENWOOD

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