



TK-5210G/5310G

VHF/UHF FM & Project 25 Digital Portable Radios



FleetSync®

GENERAL FEATURES

- 5 Watt (136-174 MHz)
- 4 Watt (450-520, 380-470 MHz)
- 100 Zones / 1024 Channels
- Personality Lists
- Backlit Dot Matrix LCD
- 16 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
- 2-Position PF Lever Switch
- 3-Position PF Concentric Switch
- 4 Front Menu-Driven PF Keys
- 3 Side PF Keys
- Orange Emergency / AUX Key
- 12-Key DTMF / PF Keypad¹
- Enhanced Kenwood Audio
- Voice Annunciation
- VOX Ready
- Emergency Features
- Tactical Group
- Battery Level Indicator
- Transceiver Password

- Date & 12/24 Hour Time Clock
- Windows® Programming & Tuning²
- Windows® Firmware Uploading²
- Self-Programming & Tuning
- Cloning
- Easy Option Port
- Voice Guide & Storage (Option)
- Weather-Sealed Accessory Connector
- MIL-STD-810 C/D/E/F
- IP54/55 Water & Dust Protection
- Immersion (IP66/67/68) Option
- Intrinsically Safe Option

SCAN TYPES (FM & P25)

- Single Zone/Multi-Zone Scan
- Scan Lists
- Conventional Scan
- Limited Talk Group Scan³
- Priority Monitor Scan³
- Dual Priority Scan

FM

- QT / DQT
- Operator Selectable Tone
- Two-Tone Decode / Encode
- Special Alert Tone Patterns⁴

- DTMF Encode / Decode / Stun
- Encryption / ANI Board Control
- Companded Audio
- FleetSync®/II PTT ID / Caller ID Display / Emergency⁵
- MDC-1200 PTT ID / Caller ID Display / Emergency⁵

P25 DIGITAL

- P25 Digital Conventional
- P25 Digital Trunking Option
- AMBE+2™ Enhanced VOCODER
- Talk Group ID Lists
- Individual ID Lists
- Caller ID Display
- Remote Monitor / Remote Check
- Radio Inhibit
- Encryption Key Delete
- Encryption Key Zeroize (SCM required)
- Encryption Key Retention (SCM required)
- DES Encryption Options
- AES / DES Encryption Options
- KPG-93 KVL Key Loader Interface Cable⁶
- P25 GPS Location
- P25 OTAR Option



Two models available:
16-Character LCD, 4 Menu-driven PF Keys
16-Character LCD, 4 Menu-driven PF Keys, 12-Key DTMF/PF Keypad
(Not actual size)

Options

| | | | |
|---|--|--|---|
| <ul style="list-style-type: none"> KNB-54N Ni-MH Rechargeable Battery Pack (2500 mAh) KNB-41NC Ni-MH Battery Pack Intrinsicly Safe (2500 mAh) KNB-43L Li-Polymer Rechargeable Battery Pack (3300 mAh) KNB-49PL Primary Lithium Non-Rechargeable Battery (4500 mAh) KBP-6 Battery Case | <ul style="list-style-type: none"> KSC-32 Tri-chemistry Rapid Charger KPG-93 KRA-25 VHF High Gain Antenna KRA-26 VHF Helical Antenna KRA-27 UHF Whip Antenna | <ul style="list-style-type: none"> KRA-28 VHF Broad Band Antenna (140-170 MHz) KRA-29 UHF Broad Band Antenna (380-430 MHz) KMC-26 Speaker Microphone with Antenna Connector KMC-41M MIL-STD & IP54/55 Speaker Microphone KMC-42WM MIL-STD & IP54/55/66/67 Speaker Microphone | <ul style="list-style-type: none"> KEP-1 Heavy Duty Earphone KHS-11 2-Wire Palm Mic with Earphone KHS-14 Lightweight Single Muff Headset KBH-11 Belt Clip (2.5") VGS-1 Voice Guide & Storage Unit |
|---|--|--|---|

Specifications

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.

| Model | TK-5210G | TK-5310G |
|---|--|--------------------|
| GENERAL | | |
| Models (Type 1) | | |
| 4-key w/LCD Model | TK-5210GK2 | TK-5310GK2 |
| Full key w/LCD Model | TK-5210GK3 | TK-5310GK3 |
| Models (Type 2) | | |
| 4-key w/LCD Model | | TK-5310GK5 |
| Full key w/LCD Model | | TK-5310GK6 |
| Frequency Range | | |
| Type 1 | 136-174 MHz | 450-520 MHz |
| Type 2 | | 380-470 MHz |
| Max. Channels per Radio | | 1024 |
| Zones | | 100 |
| Max. Channels per Zone | | 512 |
| Channel Spacing | | |
| Analog | 12.5 / 15 / 20 / 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 (10-10-80) duty cycle | | |
| KNB-54N, 7.5 VDC, 2500 mAh | | 12 hours (8 hours) |
| KNB-41NC, 7.5V DC, 2500mAh | | 12 hours (8 hours) |
| KBP-6, AA Alkaline x6 Batteries (@ 1W) | | 8 hours (5 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-54N | 2.28 x 6.10 x 1.80 in. (58 x 155 x 45.7 mm.) | |
| with KNB-41NC | 2.28 x 6.10 x 1.84 in. (58 x 155 x 46.7 mm.) | |
| with KBP-6 | 2.36 x 6.10 x 1.84 in. (60 x 155 x 46.7 mm.) | |
| Weight (Radio only) | | |
| 4-key w/LCD Model | 11.64 oz. (330 g) | |
| Full key w/LCD Model | 11.64 oz. (330 g) | |
| Weight with antenna & Belt Clip (4-Key w/LCD model) | | |
| with KNB-32N | 23.28 oz. (660 g) | |
| with KNB-41NC | 24.00 oz. (680 g) | |

| Model | TK-5210G | TK-5310G |
|----------------------------|------------------------------------|--------------------------------|
| GENERAL | | |
| FCC ID | Type 1 Type 2 | ALH35733110 ALH39913110 |
| IC Certification | Type 1 Type 2 | 282D-35733110 282D-39913120 |
| 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 | -75 dB (25 KHz) |
| Analog @ 12.5 kHz | | -67 dB |
| Intermodulation Distortion | | |
| Digital | | -75 dB |
| Analog @ 25/30 kHz | -75 dB | -75 dB (25 KHz) |
| Analog @ 12.5 kHz | | -68 dB |
| Spurious & Image | | |
| Digital | -80 dB | -75 dB |
| Analog | -80 dB | -75 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 | 4 W / 1 W |
| Spurious & Harmonics | | 70 dB |
| FM Hum & Noise | | |
| Analog @ 25 kHz | 50 dB | 48 dB |
| Analog @ 12.5 kHz | 45 dB | 42 dB |
| Audio Distortion | | Less than 2 % |
| Modulation | 16K0F3E, 11K0F3E, 8K10F1E, 8K10F1D | |

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 | IP67/68* | | | |

Analog measurements made per TIA/EIA 603
Digital measurements made per TIA/EIA 102CAAA

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

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footnotes from front:

- LCD models only.
- LCD, keypad model only.
- KPG-95DG Software: Windows® 98/NT/2000/Me/XP/Vista (32 bit) compatible.
- P25 Trunking Option required.
- Operates for 2-Tone, DTMF, FleetSync® selective calling in FM mode only.
- Either MDC-1200 or FleetSync® can be activated per radio.
- K7 model is not compatible with AES / DES encryption options.
- KPG-93 adapts the Motorola®, KVL3000/3000 Plus Key Loader to the TK-5210G/5310G.