



## 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 Keypad<sup>1</sup>
- Enhanced Kenwood Audio
- Voice Annunciation
- VOX Ready
- Emergency Features
- Tactical Group
- Battery Level Indicator
- Transceiver Password

- Date & 12/24 Hour Time Clock
- Windows® Programming & Tuning<sup>2</sup>
- Windows® Firmware Uploading<sup>2</sup>
- 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 Scan<sup>3</sup>
- Priority Monitor Scan<sup>3</sup>
- Dual Priority Scan

### FM

- QT / DQT
- Operator Selectable Tone
- Two-Tone Decode / Encode
- Special Alert Tone Patterns<sup>4</sup>

- DTMF Encode / Decode / Stun
- Encryption / ANI Board Control
- Companded Audio
- FleetSync®/II PTT ID / Caller ID Display / Emergency<sup>5</sup>
- MDC-1200 PTT ID / Caller ID Display / Emergency<sup>5</sup>

### 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 Cable<sup>6</sup>
- 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"> <li><b>KNB-54N</b> Ni-MH Rechargeable Battery Pack (2500 mAh)</li> <li><b>KNB-41NC</b> Ni-MH Battery Pack Intrinsically Safe (2500 mAh)</li> <li><b>KNB-43L</b> Li-Polymer Rechargeable Battery Pack (3300 mAh)</li> <li><b>KNB-49PL</b> Primary Lithium Non-Rechargeable Battery (4500 mAh)</li> <li><b>KBP-6</b> Battery Case</li> </ul>	<ul style="list-style-type: none"> <li><b>KSC-32</b> Tri-chemistry Rapid Charger</li> <li><b>KPG-93</b></li> <li><b>KRA-25</b> VHF High Gain Antenna</li> <li><b>KRA-26</b> VHF Helical Antenna</li> <li><b>KRA-27</b> UHF Whip Antenna</li> </ul>	<ul style="list-style-type: none"> <li><b>KRA-28</b> VHF Broad Band Antenna (140-170 MHz)</li> <li><b>KRA-29</b> UHF Broad Band Antenna (380-430 MHz)</li> <li><b>KMC-26</b> Speaker Microphone with Antenna Connector</li> <li><b>KMC-41M</b> MIL-STD &amp; IP54/55 Speaker Microphone</li> <li><b>KMC-42WM</b> MIL-STD &amp; IP54/55/66/67 Speaker Microphone</li> </ul>	<ul style="list-style-type: none"> <li><b>KEP-1</b> Heavy Duty Earphone</li> <li><b>KHS-11</b> 2-Wire Palm Mic with Earphone</li> <li><b>KHS-14</b> Lightweight Single Muff Headset</li> <li><b>KBH-11</b> Belt Clip (2.5")</li> <li><b>VGS-1</b> Voice Guide &amp; Storage Unit</li> </ul>
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## 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
<b>GENERAL</b>		
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
<b>GENERAL</b>		
FCC ID	Type 1 Type 2	ALH35733110 ALH39913110
IC Certification	Type 1 Type 2	282D-35733110 282D-39913120
<b>RECEIVER</b>		
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
<b>TRANSMITTER</b>		
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		
Modulation		Less than 2 %
	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
<b>Low Pressure</b>	500.1/Procedure I	500.2/Procedure I, II	500.3/Procedure I, II	500.4/Procedure I, II
<b>High Temperature</b>	501.1/Procedure I, II	501.2/Procedure I, II	501.3/Procedure I, II	501.4/Procedure I, II
<b>Low Temperature</b>	502.1/Procedure I	502.2/Procedure I, II	502.3/Procedure I, II	502.4/Procedure I, II
<b>Temperature Shock</b>	503.1/Procedure I	503.2/Procedure I	503.3/Procedure I	503.4/Procedure I, II
<b>Solar Radiation</b>	505.1/Procedure I	505.2/Procedure I	505.3/Procedure I	505.4/Procedure I
<b>Rain</b>	506.1/Procedure I, II	506.2/Procedure I, II	506.3/Procedure I, II	506.4/Procedure I, III
<b>Humidity</b>	507.1/Procedure I, II	507.2/Procedure II, III	507.3/Procedure II, III	507.4
<b>Salt Fog</b>	509.1/Procedure I	509.2/Procedure I	509.3/Procedure I	509.4
<b>Dust</b>	510.1/Procedure I	510.2/Procedure I	510.3/Procedure I	510.4/Procedure I, III
<b>Vibration</b>	514.2/Procedure VIII, X	514.3/Procedure I	514.4/Procedure I	514.5/Procedure I
<b>Shock</b>	516.2/Procedure I, II, V	516.3/Procedure I, IV	516.4/Procedure I, IV	516.5/Procedure I, IV
<b>Immersion(option)</b>	512.1/Procedure I	512.2/Procedure I	512.3/Procedure I	512.4/Procedure I
<b>International Protection Standard</b>				
<b>Dust &amp; Water Protection</b>	IP54/55			
<b>Dust &amp; Water Jet Intrusion</b>	IP66*			
<b>Immersion</b>	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.

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Professional Systems Business Group  
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AAS#28212 Printed in USA