

# KENWOOD

Listen to the Future



## TK-5210G/5310G

VHF/UHF FM & Project 25 Digital Portable Radios



FleetSync<sup>®</sup>  
by KENWOOD

### GENERAL FEATURES

- 5 Watt (136-174 MHz)
- 4 Watt (450-520, 380-470 MHz)
- 100 Zones / 1024 Channels (K-K6)
- 32 Zones / 128 Channels (K7)
- Personality Lists
- Backlit Dot Matrix LCD<sup>1</sup>
- 16 Character Alphanumeric Aliases<sup>1</sup>
- 3-Digit Sub-Display<sup>1</sup>
- Function / Status LCD Icons<sup>1</sup>
- 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<sup>1</sup>
- 3 Side PF Keys
- Orange Emergency / AUX Key
- 12-Key DTMF / PF Keypad<sup>2</sup>
- Enhanced Kenwood Audio
- Voice Annunciation
- VOX Ready
- Emergency Features
- Tactical Group<sup>1</sup>
- Battery Level Indicator<sup>1</sup>

- Transceiver Password<sup>1</sup>
- Date & 12/24 Hour Time Clock<sup>1</sup>
- Windows<sup>®</sup> Programming & Tuning<sup>3</sup>
- Windows<sup>®</sup> Firmware Uploading<sup>3</sup>
- Self-Programming & Tuning<sup>1</sup>
- Cloning<sup>1</sup>
- 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
- Orange or Yellow Enclosure Option

- Two-Tone Decode / Encode
- DTMF Encode / Decode / Stun
- Special Alert Tone Patterns<sup>5</sup>
- Encryption / ANI Board Control
- Companded Audio
- FleetSync<sup>®</sup>/II PTT ID / Caller ID Display / Emergency<sup>6</sup>
- MDC-1200 PTT ID / Caller ID Display / Emergency<sup>6</sup>

### P25 DIGITAL

- P25 Digital Conventional
- P25 Digital Trunking Option
- AMBE+2<sup>™</sup> 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<sup>7</sup>
- KPG-93 KVL Key Loader Interface Cable<sup>8</sup>
- P25 GPS Location (Conventional)
- P25 OTAR Option (Conventional)

### SCAN TYPES (FM & P25)

- Single Zone/Multi-Zone Scan
- Scan Lists
- Conventional Scan
- Limited Talk Group Scan<sup>4</sup>
- Priority Monitor Scan<sup>4</sup>
- Dual Priority Scan

### FM

- QT / DQT
- Operator Selectable Tone



Three models available:  
Basic Unit: No LCD, No front Keys  
16-Character LCD, 4 Menu-driven PF Keys (Shown with optional safety yellow enclosure)  
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)		
Basic Model	TK-5210GK	TK-5310GK
4-key w/LCD Model	TK-5210GK2/GK7	TK-5310GK2
Full key w/LCD Model	TK-5210GK3	TK-5310GK3
Models (Type 2)		
Basic Model		TK-5310GK4
4-key w/LCD Model		TK-5310GK5/GK7
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 / 128 (K7 model)	
Zones	100 / 32 (K7 model)	
Max. Channels per Zone	512 / 128 (K7 model)	
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)		
Basic Model	11.11 oz. (315 g)	
4-key w/LCD Model	11.64 oz. (330 g)	
Full key w/LCD Model	11.64 oz. (330 g)	

Model	TK-5210G	TK-5310G
<b>GENERAL</b>		
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)	
FCC ID		
Type 1	ALH35733110	ALH39913110
Type 2		ALH39913120
IC Certification		
Type 1	282D-35733110	
Type 2		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		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
<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

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.  
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.

footnotes from front:  
<sup>1</sup> LCD models only.  
<sup>2</sup> LCD, keypad model only.  
<sup>3</sup> KPG-95DG Software: Windows® 98/NT/2000/Me/XP/Vista (32 bit) compatible.  
<sup>4</sup> P25 Trunking Option required.  
<sup>5</sup> Operates for 2-Tone, DTMF, FleetSync® selective calling in FM mode only.  
<sup>6</sup> Either MDC-1200 or FleetSync® can be activated per radio.  
<sup>7</sup> K7 model is not compatible with AES / DES encryption options.  
<sup>8</sup> KPG-93 adapts the Motorola® KVL3000/3000 Plus Key Loader to the TK-5210G/5310G.

# 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



www.kenwood.com



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