

# KENWOOD

Listen to the Future



## TK-5210

VHF FM & Project 25 Digital Portable Radio



FleetSync<sup>®</sup>  
by KENWOOD

### GENERAL FEATURES

- 5 Watt (136-174 MHz)
- 50 Zones / 512 Channels
- 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>
- 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 Call Features
- Emergency Man-Down Option
- 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>
- Field-Programming & Tuning<sup>1</sup>
- Cloning<sup>1</sup>
- 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 Scan<sup>4</sup>
- Priority Monitor Scan<sup>4</sup>

### FM

- QT / DQT
- Operator Selectable Tone
- Two-Tone Decode
- DTMF Encode / Decode / Stun
- Special Alert Tone Patterns<sup>5</sup>
- Encryption / ANI Board Control
- Companded Audio

### FleetSync<sup>®</sup> (FM)

- FleetSync<sup>®</sup> or FleetSync<sup>®</sup> 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<sup>™</sup> VOCODER
- Talk Group ID Lists
- Individual ID Lists
- Caller ID Display
- RSSI Indicator<sup>4</sup>
- Remote Monitor/Remote Check
- Radio Inhibit
- Encryption Key Delete
- AES/DES 16-Key Encryption Options
- Windows<sup>®</sup> DES/AES Programming<sup>3</sup>
- KPG-93 KVL Key Loader Interface Cable<sup>6</sup>



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

(Not actual size proportion)

# Options

<ul style="list-style-type: none"> <li>■ <b>KNB-32N</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>KSC-32</b> Tri-chemistry Rapid Charger</li> <li>■ <b>KPG-93</b> Keyloader Interface Cable</li> </ul>	<ul style="list-style-type: none"> <li>■ <b>KRA-22</b> VHF Helical Antenna</li> <li>■ <b>KRA-26</b> VHF Helical Antenna</li> <li>■ <b>KRA-16</b> VHF Stubby Antenna</li> <li>■ <b>KRA-25</b> VHF High Gain Antenna</li> <li>■ <b>KRA-28</b> VHF Broad Band High Gain Antenna</li> </ul>	<ul style="list-style-type: none"> <li>■ <b>KMC-25</b> Speaker Microphone</li> <li>■ <b>KMC-26</b> Speaker Microphone with Antenna Connector</li> <li>■ <b>KEP-1</b> Heavy Duty Earphone</li> <li>■ <b>KHS-11</b> 2-Wire Palm Mic with Earphone</li> </ul>	<ul style="list-style-type: none"> <li>■ <b>KHS-14</b> Lightweight Single Muff Headset</li> <li>■ <b>KHS-15-BH</b> Heavy Duty Behind-the-Head Headset</li> <li>■ <b>KHS-15-OH</b> Heavy Duty Over-the-Head Headset</li> <li>■ <b>KBH-11</b> Belt Clip (2.5")</li> </ul>
---	---	--	---

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
<b>GENERAL</b>	
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
<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
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
<b>TRANSMITTER</b>	
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	Less than 2 %
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
<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*			

\*IP66/67 Optional Package

footnotes from Front:

- <sup>1</sup> K2/K3 LCD models only.
- <sup>2</sup> K3 LCD, keypad model only models), Auto-Dial (9 numbers) & Stun.
- <sup>3</sup> KPG-95D Software: Windows® 98/NT/2000/Me/XP 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> KPG-93 adapts the Motorola®, KVL3000/3000 Plus Key Loader to the TK-5210.

# KENWOOD

Kenwood U.S.A. Corporation  
 Communications Sector Headquarters

3975 Johns Creek Court, Suite 300, 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

