

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

(Not actual size proportion)

Options

<ul style="list-style-type: none"> ■ KNB-32N Ni-MH Rechargeable Battery Pack (2500 mAh) ■ KNB-41NC Ni-MH Battery Pack Intrinsicly Safe (2500 mAh) ■ KSC-32 Tri-chemistry Rapid Charger ■ KPG-93 Keyloader Interface Cable 	<ul style="list-style-type: none"> ■ KRA-22 VHF Helical Antenna ■ KRA-26 VHF Helical Antenna ■ KRA-16 VHF Stubby Antenna ■ KRA-25 VHF High Gain Antenna ■ KRA-28 VHF Broad Band High Gain Antenna 	<ul style="list-style-type: none"> ■ KMC-25 Speaker Microphone ■ KMC-26 Speaker Microphone with Antenna Connector ■ KEP-1 Heavy Duty Earphone ■ KHS-11 2-Wire Palm Mic with Earphone 	<ul style="list-style-type: none"> ■ KHS-14 Lightweight Single Muff Headset ■ KHS-15-BH Heavy Duty Behind-the-Head Headset ■ KHS-15-OH Heavy Duty Over-the-Head Headset ■ KBH-11 Belt Clip (2.5")
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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	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
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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