

# KENWOOD

Listen to the Future



## TK-5410

700/800MHz FM & P25 Digital Portable Radio



### GENERAL FEATURES

- 3 Watt
- 100 Zones / 1024 Channels
- 12-Key Keypad Model
- 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
- Zone / Ch Voice Announce
- VOX Ready
- Emergency Features
- Tactical Group
- Battery Level
- Transceiver Password
- Date & 12/24 Hour Time Clock
- Windows® Programming & Tuning<sup>1</sup>
- Windows® Firmware Uploading<sup>1</sup>
- 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\*
- Priority Monitor Scan
- Dual Priority Scan

### FM

- QT / DQT
- Operator Selectable Tone<sup>2</sup>
- DTMF Encode
- Companded Audio
- NPSPAC Channels

### P25 DIGITAL

- P25 Digital Conventional
- P25 Digital Trunking
- AMBE+2™ Enhanced VOCODER
- Talk Group ID Lists
- Individual ID Lists
- Caller ID Display
- Remote Monitor / Check, Radio Inhibit
- Encryption Key Zeroize & Retention
- DES Encryption Module
- AES & DES Encryption Module
- KPG-36AM Radio Program/Soft-Key Loader Cable
- KPG-93 KVL Device Key Loader Cable<sup>3</sup>
- P25 GPS Location\*
- P25 OTAR Option\*

\*Future availability



#### Two models available:

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)

# Options

- **KNB-54N**  
Ni-MH Rechargeable  
Battery Pack (2500 mAh)

- **KNB-41NC**  
Ni-MH Battery Pack  
Intrinsically Safe (2500 mAh)

- **KNB-33L**  
Li-ion Rechargeable  
Battery Pack (2000 mAh)

- **KNB-43L**  
Li-Polymer Rechargeable  
Battery Pack (3300 mAh)

- **KNB-49PL**  
Primary Lithium Non-Rechargeable  
Battery (4500 mAh)



- **KBP-6**  
Battery Case

- **KSC-32**  
Tri-chemistry  
Rapid Charger

- **KPG-93**  
KVL Device Key  
Loader Cable

- **KRA-32**  
700/800 MHz  
Whip Antenna



- **KMC-41M**  
MIL-STD & IP54/55  
Speaker Microphone

- **KMC-42WM**  
MIL-STD & IP54/55/66/67  
Speaker Microphone

- **VGS-1**  
Voice Guide  
& Storage Unit

- **KSC-32E**  
Rapid Rate Six Unit Charger  
for Ni-Cd/Ni-MH/Li-Ion



- **KVC-18/20L**  
D.C. Vehicular Charger  
KVC-18 (for Ni-Cd/Ni-MH)  
KVC-20L (for Li-ion/Li-Polymer)

- **KEP-1**  
Heavy Duty Earphone

- **KHS-11**  
2-Wire Palm Mic  
with Earphone



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-5410
<b>GENERAL</b>	
Models	
4-key w/LCD Model	TK-5410K2
Full key w/LCD Model	TK-5410K3
Frequency Range	
Receive	763-776, 851-870 MHz
Transmit	763-776, 793-806, 806-825, 851-870 MHz
Number of Channels	
	1024
Zones	
	100
Max. Channels per Zone	
	512
Channel Spacing	
Analog	12.5 / 25 KHz
Digital	12.5 kHz
PLL Channel Steps	
	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	
	± 1.5 ppm (-22° F to +140° F)
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 w/Antenna & Belt Clip (4-Key w/LCD Model)	
with KNB-54N	23.28 oz. (660 g)
with KNB-41NC	24.00 oz. (680 g)
FCC ID	
	ALH420700
IC Certification	
	282D-420700

Model	TK-5410
<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 kHz	-75 dB
Analog @ 12.5 kHz	-64 dB
Intermodulation Distortion	-75 dB
Spurious & Image	-75 dB
Audio Distortion	
Digital	Less than 1.0 %
Analog	Less than 2.0 %
Audio Output	
	500 mW / 8 Ω
<b>TRANSMITTER</b>	
RF Power Output	
	3 W / 1 W
Spurious & Harmonics	
	70 dB
FM Hum & Noise	
Analog @ 25 kHz	45 dB
Analog @ 12.5 kHz	40 dB
Audio Distortion	
	Less than 2 %
Modulation Limiting	
Analog @ 25 KHz	± 5 kHz
Analog @ NPSPAC	± 4 kHz
Analog @ 12.5 KHz	± 2.5 kHz
Modulation	
	16K0F3E, 11K0F3E, 8K10F1E, 8K10F1D, 14K0F3E

Analog measurements made per TIA/EIA 603 and specifications shown are typical.  
Digital measurements made per TIA/EIA 102CAAA and specifications shown are typical.

Kenwood follows a policy of continuous advancement in development. For this reason specifications may be changed without notice.

# 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*			

\* IP66/67/68 Optional; IP68: 3.3 feet (1m) depth @ 2 hours

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> KPG-95D Software: Windows® 98 INT /2000 /Me /XP /VISTA (32 bit) compatible.

<sup>2</sup> Operator Selectable Tone (40 QT.DQT code pairs).

<sup>3</sup> KPG-93 adapts the Motorola®, KVL3000/3000 Plus Key Loader to the TK-5410.

# KENWOOD

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