KENWOOD
Listen to the Future

TK-5410

700/800MHz FM & P25 Digital Portable Radio

P25

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[1]
- Windows® Firmware Uploading[1]
- 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[2]
- 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[3]
- 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

Specifications

Model	TK-5410
GENERAL	
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
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 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
TRANSMITTER	
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
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	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				

International Protection Standard	
Dust & Water Protection	IP54/55
Dust & Water Jet Intrusion	IP66*
Immersion	IP67/68*

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

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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:
[1] KPG-95D Software: Windows® 98 /NT /2000 /Me /XP /VISTA (32 bit) compatible.
[2] Operator Selectable Tone (40 QT.DQT code pairs).
[3] KPG-93 adapts the Motorola®, KVL3000/3000 Plus Key Loader to the TK-5410.