

KENWOOD



TK-5410D

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 Announcement
- VOX Ready
- Emergency Features
- Battery Level
- Transceiver Password
- Date & 12/24 Hour Time Clock
- KPG-95DG/DGN Windows(R) FPU
- Flash Firmware Upgrading
- VGS-1 Voice Guide & Storage
- Weather-Sealed Accessory Connector
- MIL-STD-810 C/D/E/F/G
- IP54/55/66 Water & Dust Intrusion
- IP67/68 Immersion

P25 DIGITAL

- P25 Conventional
- P25 Phase 1 Trunking
- P25 Phase 2 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 Option
- AES & DES Encryption Module Option
- P25 GPS Location
- P25 OTAR 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
- DTMF Encode
- Companded Audio
- NPSPAC Channels



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-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-42WD**
MIL-STD & IP54/55/67
Speaker Microphone
(Future Availability)

■ **KMC-52WD**
MIL-STD & IP54/55/67
Digital Noise-canceling
Speaker Microphone
(Future Availability)

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



■ **KSC-326**
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-5410D
GENERAL	
Models	
4-key w/LCD Model	TK-5410DK2
Full key w/LCD Model	TK-5410DK3
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 $\pm$ 20 %
Battery Life 5-5-90 (10-10-80) duty cycle	
KNB-54N, 7.5 VDC, 2500 mAh	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	$\pm$ 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 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)
FCC ID	ALH468800
IC Certification	282D-468800

Model	TK-5410D
RECEIVER	
Sensitivity	
Digital (5 % BER)	0.25 μ V
Digital (1 % BER)	0.40 μ V
Analog 12 dB SINAD	0.25 μ V
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	$\pm$ 5 kHz
Analog @ NPSPAC	$\pm$ 4 kHz
Analog @ 12.5 KHz	$\pm$ 2.5 kHz
Modulation	16K0F3E, 11K0F3E, 8K10F1E, 8K10F1D, 8K10F1V, 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.

Specifications are subject to change without notice, due to advancements in technology.

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.

Applicable MIL-STD & IP

Standard	MIL 810C Methods/Procedures	MIL 810D Methods/Procedures	MIL 810E Methods/Procedures	MIL 810F Methods/Procedures	MIL 810G Methods/Procedures
Low Pressure	500.1/Procedure I	500.2/Procedure I, II	500.3/Procedure I, II	500.4/Procedure I, II	500.5/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	501.5/Procedure I, II
Low Temperature	502.1/Procedure I, II	502.2/Procedure I, II	502.3/Procedure I, II	502.4/Procedure I, II	502.5/Procedure I, II
Temperature Shock	503.1/Procedure I	503.2/Procedure I	503.3/Procedure I	503.4/Procedure I, II	503.5/Procedure I
Solar Radiation	505.1/Procedure I	505.2/Procedure I	505.3/Procedure I	505.4/Procedure I	505.5/Procedure I
Rain	506.1/Procedure I, II	506.2/Procedure I, II	506.3/Procedure I, II	506.4/Procedure I, III	506.5/Procedure I, III
Humidity	507.1/Procedure I, II	507.2/Procedure II, III	507.3/Procedure II, III	507.4	507.5/Procedure II
Salt Fog	509.1/Procedure I	509.2/Procedure I	509.3/Procedure I	509.4	509.5
Dust	510.1/Procedure I	510.2/Procedure I	510.3/Procedure I	510.4/Procedure I, III	510.5/Procedure I
Vibration	514.2/Procedure VIII, X	514.3/Procedure I	514.4/Procedure I	514.5/Procedure I	514.6/Procedure I
Shock	516.2/Procedure I, II, V	516.3/Procedure I, IV	516.4/Procedure I, IV	516.5/Procedure I, IV	516.6/Procedure I, IV
Immersion	512.1/Procedure I	512.2/Procedure I	512.3/Procedure I	512.4/Procedure I	512.5/Procedure I
International Protection Standard					
Dust & Water	IP54/55				
Dust & Water Jet Intrusion	IP66				
Immersion	IP67/68*				

*IP68: 3.3 feet (1m) depth @ 2 hours.

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



ISO9001 Registered
Professional Systems Business Group
JVCENWOOD Corporation

ADS#40913 Printed in USA