KENWOOD

Listen to the Future

TK-5400

800 MHz P25 Digital Portable

GENERAL FEATURES

- 3 Watt (806-870 MHz)
- 16 Zones / 512 Channels
- Personality Lists
- Top Mounted LCD
- Electronic Inverting LCD Readout
- 7-Character Alphanumeric Aliases
- 2-Digit Numeric Sub-Display
- Function/Status LCD Icons
- Transmit/Busy/Call Alert/Warn LED
- On/Off Volume Knob
- 16-Position Mechanical Selector Knob
- 2-Position Programmable Toggle Switch
- 5 Programmable Function Keys
- Orange Emergency/AUX Key
- 12-Key DTMF/PF Keypad [1]
- VOX Ready
- Time Out Timer
- Busy Channel Lockout
- Low Battery Alert
- Battery Saver
- Windows® Programming & Tuning [2]
- Windows® Firmware Uploading [2]
- Front Panel Test/Tune
- Weather-Sealed Accessory Connector
- MIL-Spec Speaker Mic Option
- MIL-STD-810 C/D/E/F
- Intrinsically Safe Option

Two models available:
K: Basic Unit: 7-Character Top LCD, No front Keypad
K2: 7-Character Top LCD, 12-Key DTMF/PF Keypad
(Not actual size proportion)

SCAN TYPES (FM & P25)

- Dual Priority Scan
- Limited Talk Group Scan
- Priority Monitor Scan
- Scan Lists

FM

- QT / DQT
- Operator Selectable Tone
- DTMF Encode
- Companded Audio

P25 DIGITAL

- P25 Digital Conventional
- P25 Digital Trunking (included)
- IMBE TM VOCODER [3]
- Talk Group ID Lists
- Individual ID Lists
- Caller ID Display
- Emergency Call Features
- Emergency Man-Down Option
- Encryption Key Delete
- DES 16-Key Encryption Option
- Windows® DES Programming [2]
- KPG-93 KVL Key Loader Interface Cable [4]

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Options

- **KNB-21N** Ni-MH Battery Pack (1600 mAh)
- **KNB-22N** Ni-MH Battery Pack (2100 mAh)
- **KNB-22NC** Ni-MH I.S. Battery Pack (2100 mAh)

- **KBP-4** AA Refillable Battery Pack (Holds 12 AA-Size Cells)

- **KSC-24** Rapid Rate Dual-Chemistry Ni-Cd/Ni-MH Charger

- **KMB-16** Multi-Charger Adapter

- **KVC-4** Rapid Rate Vehicular Charger Adapter for (KSC-24)

- **KMC-25** MIL-SPEC Speaker Mic

- **KHS-11BL** 2-Wire Palm Mic with Earphone (BE- beige model)

- **KHS-14** Lightweight Single Muff Headset

- **KHS-15-BH** Heavy Duty Behind-the-Head Headset with Noise Canceling Boom Mic

- **KHS-15-OH** Heavy Duty Over-the-Head Headset

- **KHS-12BL** 3-Wire Mini Lapel Mic with Earphone (BE- beige model)

- **KBH-8DS** Swivel Belp Loop with D-Ring Stud Back Plate

- **KLH-78B** Leather Case (for TK-5400 K)

- **KLH-79B** Leather Case (for TK-5400 K2)

- **KRA-24** 800 MHz Whip Antenna

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-5400
GENERAL	
Frequency Range	RX: 851 ~ 870 MHz TX: 806 ~ 825 MHz, 851 ~ 870 MHz
Number of Channels	512
Zone	16 max.
Channels	250 max. TX: 806 ~ 825 MHz, 851 ~ 870 MHz
Channel Spacing	
FM Mode	12.5/20/25 kHz
APCO	12.5 kHz
Input Voltage	7.5 V ± 20 %
Battery Life (5-5-90 Duty Cycle)	
KNB-21N (Ni-Mh)	8 hours
KNB-22N (Ni-Mh)	10 hours
Operating Modes	
Digital	APCO P25 Phase 1
Analog	Legacy FM
Signaling (FM Mode Only)	
Encode	QT, DQT, DTMF
Decode	QT, DQT
Operating Temperature Range	-22° F ~ +140° F (-30° C ~ +60° C)
Frequency Stability	±1.5ppm
Antenna Impedance	50 Ω
Dimensions (W x H x D) [projections not included]	58 x 155 x 38 mm with KNB-22N battery (2.5/16" x 6-3/32" x 1-1/2" with KNB-22N)
Weight (net)	1.29 lbs oz. (587 g) with KNB-22N battery and antenna.
FCC ID	ALH33063110
IC Certification	FCC Part 90 & 90.210

Model	TK-5400	
RECEIVER (Measurements made per TIA/EIA-603 for FM, TIA/EIA 102 for Digital)		
Receiver Sensitivity		
APCO (5 % BER)	< 0.30 µV	
FM Mode (12 cD SINAD)	< 0.30 µV	
Adjacent Channel Selectivity		
APCO	< -60 dB	
FM Mode TIA/EIA @ 25 kHz	< -72 dB	
FM Mode TIA/EIA @ 12.5 kHz	< -63 dB	
Intermodulation		
APCO	< -60 dB	
FM Mode TIA/EIA @ 25 kHz	< -70 dB	
FM Mode TIA/EIA @ 12.5 kHz	< -63 dB	
Spurious & Image	< -73 dB	
Audio Output	0.5 W / 16 Ω, with less than 3% distortion	
Channel frequency spread	19 MHz	6 MHz
TRANSMITTER (Measurements made per TIA/EIA-603)		
RF Power Output	3 / 1 W	
Spurious & Harmonics	< -60 dB	
FM Hum & Noise	< -45 dB	
Audio Distortion	Less than 2%	
Modulation	16K0F3E, 11K0F3E, 8K10F1E, 8K10F1D, 14K0F3E	

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

FleetSync® is a registered trademark of Kenwood Corporation.
LTR® is a registered trademark of Transcrypt International.

Applicable MIL-STD

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 Cat. A1	501.3/Procedure I, II Cat. A1	501.4/Procedure I, II
Low Temperature	502.1/Procedure I	502.2/Procedure I, II Cat. C1	502.3/Procedure I, II Cat. C1	502.4/Procedure I, II
Temperature Shock	503.1/Procedure I	503.2/Procedure I, Cat. A1,C1	503.3/Procedure I Cat. A1,C1	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 II	507.2/Procedure II	507.3/Procedure II	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, Cat. 8	514.4/Procedure I, Cat. 8	514.5/Procedure I Cat. 20
Shock	516.2/Procedure I, II, V	516.3/Procedure I, IV	516.4/Procedure I, IV	516.5/Procedure I, IV, V

footnotes from Front:
[1] *K2 keypad model only.*
[2] *KPG-78D Software: Windows® 98/ NT/ 2000/ MeIXP compatible.*
[3] *IMBETM is a trademark of Digital Voice Systems Inc.*
[4] *KPG-93 adapts the Motorola, KVL3000/3000 Plus Key Loader to the TK-5400 & TK-5210.*

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Communications Equipment Division
Kenwood Corporation
ISO9001 certification

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ADS#43707 Printed in USA

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