

KENWOOD

Listen to the Future



TK-5710(H)

VHF FM & Project 25 Digital Mobile Radio



FleetSync[®]
by KENWOOD

GENERAL FEATURES

- 50W (136-174 MHz)
- 110 W (136-174 MHz)
- 50 Zones / 512 Channels
- Personality Lists
- Enhanced Kenwood Audio
- Voice Annunciation
- Intercom¹
- Public Address
- Emergency Call Features
- Tactical Group
- Transceiver Password²
- Date & 12/24 Hour Time Clock
- Windows[®] Programming & Tuning³
- Windows[®] Firmware Uploading³
- Field-Programming & Tuning
- Cloning
- Easy Option Port (26-pin)
- DB-25 & 9-Pin Accessory Connectors
- MIL-STD 810 C/D/E/F
- MIL-STD Noise-Cancel Mic Option
- 12-Key DTMF Mic Option

MOUNTING CONFIGURATIONS

- Dash Mount
- Single Control Head Remote Mount
- Dual Control Head Remote Mount

FRONT PANELS/CONTROL HEADS

- Backlit Dot Matrix LCD
- 3-Digit Sub-Display
- Function / Status LCD Icons
- Transmit / Busy / Call Alert / Warn LED
- LCD Brightness Control
- Power On/Off Switch
- Rotary Volume Knob
- Rotary Selector Knob
- Backlit Keys
- PF Key Label Inserts
- Microphone Jack
- MIL-STD 810 512.X Driven Rain

KCH-14 Front Panel

- 12-Character Alphanumeric Aliases
- 5 PF Keys
- UP/DOWN Keys
- Built-in Front Speaker

KCH-15 Front Panel

- 14-Character Alphanumeric Aliases
- 11 PF Keys
- UP/DOWN Keys
- External Speaker Required

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
- Selective & Group Call
- Status Messaging
- Emergency Status
- 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 Indicator³
- Remote Monitor
- Remote Check
- Radio Inhibit
- Encryption Key Delete
- AES/DES 16-Key Encryption Options
- Windows[®] DES/AES Programming³
- KPG-94 KVL Key Loader Interface Cable⁶



Options

KCH-14

Basic Remote Control Head



KRK-6DH

Dual Control Head Remote Kit



KCT-23

DC Power cable

- Medium Power Dash (10 Ft.)
- High Power Dash (10 Ft.)
- Medium Power Remote (Pos: 23 Ft. Neg: 3.3 Ft.)
- High Power Remote (Pos: 23 Ft. Neg: 3.3 Ft.)



KMC-9B

Desktop Microphone



KCH-15

Full-featured Remote Control Head



KCT-18

Ignition Sense Cable



KMC-28

Keypad Microphone (MIL-SPEC Noise Canceling)



KRK-5

Single Control Head Remote Kit



KCT-22

Remote Control Cable 8 / 17 / 25 feet



KES-5

External Speaker (20W)



KMC-27

Microphone (MIL-SPEC Noise Canceling)



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 (Preliminary)

Model	TK-5710	TK-5710H
GENERAL		
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	13.6V DC ± 20%	13.4V DC ± 20%
Current Drain		
Standby	Less than 0.6A	Less than 0.6A
Receive	Less than 2.2A	Less than 2.2A
Transmit	Less than 15A	Less than 28A
Duty Cycle	Transmit: 20%	
Operating Temperature Range	-22 °F to +140 °F (-30 °C to +60 °C)	
Frequency Stability	± 2.0 ppm (-22 °F to +140 °F)	
Antenna Impedance	50 Ω	
Dimensions (W x H x D) (projections not included)		
RF Deck only	7 x 2-3/8 x 7-3/4 in. (178 x 60 x 195 mm)	7 x 2-3/8 x 12-7/8 in. (178 x 60 x 327 mm)
with KCH-14 or 15	7 x 2-3/8 x 9-1/8 in. (178 x 60 x 231 mm)	7 x 2-3/8 x 14-3/8 in. (178 x 60 x 363 mm)
Weight		
(net)	5 lbs. (2.3 kg)	7.9 lbs. (3.6 kg)
with KCH-14	5.7 lbs. (2.6 kg)	8.6 lbs. (3.9 kg)
with KCH-15	5.7 lbs. (2.6 kg)	8.6 lbs. (3.9 kg)
FCC ID	K4435753110	K4435753210
IC Certification	282F-35753110	

Analog measurements made per TIA/EIA 603

Digital measurements made per TIA/EIA 102CAAA

(*) 148MHz ~ 168MHz

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Windows® is a registered trademark of Microsoft Corporation in the United States and other countries.

IMBE™ is a trademark of Digital Voice Systems Inc.

Model	TK-5710	TK-5710H
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	-83 (85*) dB	
Analog @ 12.5 kHz	-76 (80*) dB	
Intermodulation Distortion		
Digital	-80 dB	
Analog @ 25/30 kHz	-80 dB	
Spurious & Image		
Digital	-90 dB	
Analog	-90 dB	
Audio Output		
Internal (KCH-14)	1.5 W at 8 Ω with less than 3% distortion	
External	12 W at 4 Ω with less than 3% distortion	
External	13 W at 4 Ω with less than 5% distortion	
TRANSMITTER		
RF Power Output	50 W to 5 W	110 W to 50 W
Spurious & Harmonics	80 dB	
FM Hum & Noise		
Analog @ 25 kHz	50 (53*) dB	
Analog @ 12.5 kHz	45 (47*) dB	
Microphone Impedance	600 Ω	
Audio Distortion	Less than 2%	
Modulation	16K0F3E, 11K0F3E, 8K10F1E, 8K10F1D	

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, 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, III, V	516.3/Procedure I, IV, V, VI	516.4/Procedure I, IV, V, VI	516.5/Procedure I, IV, V, VI
International Protection Standard				
Dust & Water Protection	IP54			

footnotes from Front:

¹ Dual Head remote mounts.

² DTMF Microphone option required.

³ KPG-95D Software required (Windows®98/NT/2000/Me/XP compatible).

⁴ P25 Trunking Option required.

⁵ Operates for 2-Tone, DTMF, FleetSync® selective calling.

⁶ KPG-94 adapts the Motorola® KVL3000/3000 Plus Key Loader to the TK-5710.

KENWOOD

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