

# KENWOOD

Listen to the Future



## TK-5710(H)

VHF FM & Project 25 Digital Mobile Radio



FleetSync<sup>®</sup>  
by KENWOOD

### GENERAL FEATURES

- 50W (136-174 MHz)
- 110 W (136-174 MHz)
- 50 Zones / 512 Channels
- Personality Lists
- Enhanced Kenwood Audio
- Voice Annunciation
- Intercom<sup>1</sup>
- Public Address
- Emergency Call Features
- Tactical Group
- Transceiver Password<sup>2</sup>
- Date & 12/24 Hour Time Clock
- Windows<sup>®</sup> Programming & Tuning<sup>3</sup>
- Windows<sup>®</sup> Firmware Uploading<sup>3</sup>
- 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 Scan<sup>4</sup>
- Priority Monitor Scan<sup>4</sup>

### FM

- QT / DQT
- Operator Selectable Tone
- Two-Tone Decode
- DTMF Encode / Decode / Stun
- Special Alert Tone Patterns<sup>5</sup>
- Encryption / ANI Board Control
- Companded Audio

### FleetSync<sup>®</sup> (FM)

- FleetSync<sup>®</sup> or FleetSync<sup>®</sup> 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<sup>™</sup> VOCODER
- Talk Group ID Lists
- Individual ID Lists
- Caller ID Display
- RSSI Indicator<sup>3</sup>
- Remote Monitor
- Remote Check
- Radio Inhibit
- Encryption Key Delete
- AES/DES 16-Key Encryption Options
- Windows<sup>®</sup> DES/AES Programming<sup>3</sup>
- KPG-94 KVL Key Loader Interface Cable<sup>6</sup>



# 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
<b>GENERAL</b>		
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
<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 @ 25/30 kHz	-83 (85*) dB	
Analog @12.5 kHz	-76 (80*) dB	
Intermodulation Distortion		
Digital	-80 dB	
Analog	-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	
<b>TRANSMITTER</b>		
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
<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, III, V	516.3/Procedure I, IV, V, VI	516.4/Procedure I, IV, V, VI	516.5/Procedure I, IV, V, VI
<b>International Protection Standard</b>				
<b>Dust &amp; Water Protection</b>	IP54			

footnotes from Front:

- Dual Head remote mounts.
- DTMF Microphone option required.
- KPG-95D Software required (Windows®98/NT/2000/Me/XP compatible).
- P25 Trunking Option required.
- Operates for 2-Tone, DTMF, FleetSync® selective calling.
- KPG-94 adapts the Motorola® KVL3000/3000 Plus Key Loader to the TK-5710.

# KENWOOD

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