

# KENWOOD

Listen to the Future



## TK-5910

700/800MHz FM & P25 Digital Mobile Radio



### GENERAL FEATURES

- 30W (763-806 MHz)
- 35W (806-870 MHz)
- 100 Zones / 1024 Channels
- Personality Lists
- Zone/CH Voice Announce
- Emergency Features
- Tactical Group
- Intercom<sup>1</sup>
- Public Address
- Time Out Timer
- Busy Channel Lockout
- Ignition Sense<sup>2</sup>
- Timed Power Off
- DB-25 & 9-Pin Accessory Connectors<sup>3</sup>
- Transceiver Password
- Date & 12/24 Hour Time Clock
- Windows<sup>®</sup> Programming & Tuning<sup>4</sup>
- Windows<sup>®</sup> Firmware Uploading<sup>4</sup>
- Field-Programming & Tuning
- Voice Guide & Storage (option)\*
- MIL-STD 810 C/D/E/F, IP-54
- MIL-STD Noise-Cancel Mic (included)
- MIL-STD 12-Key DTMF Mic Option

### MOUNTING CONFIGURATIONS

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

### FRONT PANELS/CONTROL HEADS

- Backlit Dot Matrix LCD
- 3-Digit Sub-Display
- Transmit LED
- Busy/Call Alert/Warn LED
- LCD Brightness Control
- Backlit Keys
- MIL-STD 810 512.X Driven Rain

#### KCH-14 Front Panel

- 12-Character Alphanumeric Aliases
- 5 PF & UP/DOWN Keys
- PF Key Label Inserts
- Built-in Front Speaker

#### KCH-15 Front Panel

- 14-Character Alphanumeric Aliases
- 11 PF Keys & UP/DOWN Keys
- PF Key Label Inserts
- External Speaker Required

#### KHC-16 Handheld Control Head

- 14-Character Alphanumeric Aliases
- 5 PF Keys & UP/DOWN/LEFT/RIGHT Keys
- Front PF Keys Name Display
- 12-Key DTMF/Function Keypad
- External Speaker Required

### 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<sup>5</sup>
- DTMF Encode<sup>6</sup>
- Horn Alert Output
- Companded Audio
- NPSPAC Channels

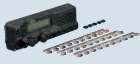














### P25 DIGITAL

- P25 Digital Conventional
- P25 Digital Trunking
- AMBE+2™ Enhanced VOCODER
- Talk Group ID Lists
- Individual ID Lists
- Caller ID Display
- RSSI Indicator
- Remote Monitor / Check, Radio Inhibit
- Encryption Key Zeroize & Retention
- DES Encryption Module
- AES & DES Encryption Module
- KPG-43AM Radio Program/Soft-Key Loader Cable
- KPG-94 KVL Device Key Loader Cable<sup>7</sup>
- P25 GPS Location\*
- P25 OTAR Option\*

\*Future availability



# Options

<p>■ <b>KCH-14</b> Basic Remote Control Head</p> 	<p>■ <b>KCT-18</b> Ignition Sense Cable</p> 	<p>■ <b>VGS-1</b> Voice Guide &amp; Storage Unit</p> 	<p>■ <b>KMC-27</b> Microphone (MIL-SPEC noise-canceling)</p> 
<p>■ <b>KCH-15</b> Full-Featured Remote Control Head</p> 	<p>■ <b>KCT-22</b> Remote Control Cable 8ft./17ft./25ft.</p> 	<p>■ <b>KES-5</b> External Speaker (20W)</p> 	<p>■ <b>KCH-16</b> Handheld Control Head</p> 
<p>■ <b>KRK-5</b> Single Control Head Remote Kit</p> 	<p>■ <b>KCT-23</b> DC Power Cable</p> 	<p>■ <b>KMC-9B</b> Desktop Microphone</p> 	<p>■ <b>KRK-11</b> Handheld Control Head Interface Kit</p> 
<p>■ <b>KRK-6DH</b> Dual Control Head Remote Kit</p> 	<p>■ <b>KPG-94</b> KVL Device Key Loader Cable</p> 	<p>■ <b>KMC-28</b> Keypad Microphone (MIL-SPEC noise-canceling)</p> 	

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-5910
<b>GENERAL</b>	
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	13.6V DC ± 15 %
Current Drain	
Standby	Less than 0.45A
Receive	Less than 2.3A
Transmit	Less than 13A
Duty Cycle	Transmit: 20%
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)	
RF Deck only	7.01 x 2.36 x 10.3 in. (178 x 60 x 261 mm.)
with KCH-14 or 15	7.05 x 2.36 x 11.7 in. (179 x 60 x 296 mm.)
Weight	
RF Deck only	6.6 lbs. (3.0 kg)
with KCH-14	7.3 lbs. (3.3 kg)
with KCH-15	7.3 lbs. (3.3 kg)
FCC ID	K44421000
IC Certification	282F-421000

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

Model	TK-5910
<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	-63 dB
Analog @ 25 kHz	-80 dB
Analog @ 12.5 kHz	-70 dB
Intermodulation Distortion	-80 dB
Spurious & Image	-85 dB
Audio Distortion	
Digital	Less than 1.0 %
Analog	Less than 2.0 %
Audio Output	
Internal (KCH-14)	@ 3% 1.5 W / 8 Ω / @ 5% 1.625 W / 8 Ω
External	@ 3% 12 W / 4 Ω / @ 5% 13 W / 4 Ω
<b>TRANSMITTER</b>	
RF Power Output	
763-776, 793-806 MHz	30 W to 2 W
806-825, 851-870 MHz	35 W to 2 W
Spurious & Harmonics	-80 dB
FM Hum & Noise	
Analog @ 25 kHz	45 dB
Analog @ 12.5 kHz	40 dB
Microphone Impedance	600 Ω
Audio Distortion	Less than 2 %
Modulation Limiting	
Analog @ 25 KHz	± 5 kHz
Analog @ NPSPEC	± 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.

# 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, II	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 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, II	510.3/Procedure I	510.4/Procedure I, III
Vibration	514.2/Procedure VIII, X	514.3/Procedure I, II	514.4/Procedure I, II	514.5/Procedure I, II
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
<b>International Protection Standard</b>				
Dust & Water Protection	IP54: Radio Itself			

footnotes from front:

- Intercom: Dual Head capable remote mounts only.
- KCT-18 ignition sense cable option required.
- DB-25 ACC: I/O's for dispatch consoles, desktop remotes, vehicle intercom/PA units, motorcycle PTT/headset kits, PC Laptop/Data Modems, GPS/AVL Modems; DB-25 (9 Prog. AUX I/O's & 2 Prog. AUX Outputs); 1 Prog Input (on Control Head).
- KPG-95D Software: Windows® 98 /INT 12000 /Me /XP /VISTA (32 bit) compatible.
- Operator Selectable Tone (40 QT.DQT code pairs).
- DTMF Manual Encode (KMC-28/KCH-16), Auto-Dial (9 numbers).
- KPG-94 adapts the Motorola, KVL3000/3000 Plus Key Loader to the TK-5910.

# KENWOOD

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