

# KENWOOD

Listen to the Future



## TK-863G

Compact UHF FM Mobile Radio  
Conventional & Trunked

### GENERAL FEATURES

- 25W, 450-490 MHz
- 32 Systems / 250 GID
- 8 Character Alphanumeric Aliases
- Backlit LCD & Keys
- Function / Status LCD Icons
- Transmit / Busy / Call Alert / Warn LED
- 10 Programmable Function Keys
- Inverting Front Panel
- Internal Speaker
- Companded Audio

- Encryption / ANI Board Control
- Emergency Call Features
- DTMF Encode
- Time Out Timer
- Busy Channel Lockout
- Accessory Interface Cable Option
- Ignition Sense <sup>1</sup>
- Public Address / Horn Alert Option <sup>2</sup>
- MIL-Spec Standard Mic Included
- MIL-Spec Noise-canceling Mic Option
- MIL-Spec 12-Key Noise-canceling Mic Option

- Windows Programming & Tuning
- Windows Firmware Uploading
- Front Panel Test / Tune
- Cloning
- MIL-STD-810 C/D/E/F

### CONVENTIONAL SYSTEMS

- QT / DQT
- Single Priority Scan

### TRUNKED SYSTEMS

- Kenwood LTR<sup>®</sup> Features



# Options

<ul style="list-style-type: none"> <li><b>KMC-9C</b> Control Station Desktop Microphone</li> <li><b>KMC-27A</b> Microphone (MIL-SPEC Noise-Canceling)</li> <li><b>KMC-27B</b> Microphone</li> <li><b>KMC-28A</b> Keypad Microphone (MIL-SPEC Noise-Canceling)</li> <li><b>KCT-18</b> Ignition Sense Cable</li> </ul>	<ul style="list-style-type: none"> <li><b>KCT-19</b> Accessories Connector Cable</li> <li><b>KCT-35</b> Extension Cable for KGP-2A/2B &amp; KDS-100</li> <li><b>KCT-36</b> Extension Cable</li> <li><b>KES-3</b> External Speaker</li> </ul>	<ul style="list-style-type: none"> <li><b>KES-5</b> External Speaker</li> <li><b>KMB-10</b> Key Lock Adapter</li> <li><b>KMB-20</b> Mounting Case</li> <li><b>KPS-15</b> DC Power Supply</li> </ul>	<ul style="list-style-type: none"> <li><b>KLF-2</b> Line Noise Filter</li> <li><b>KAP-1</b> PA/HA Unit</li> <li><b>KDS-100</b> Mobile Data Terminal</li> <li><b>KGP-2A/2B</b> GPS Receiver / Modem Unit</li> </ul>
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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-863G
<b>GENERAL</b>	
Frequency Range	450-490 MHz
Number of Systems	Max. 32
Number of Groups	Max. 250
Number of Channels (Conventional)	Max. 600
Channel Spacing	
Wide	25 kHz
Narrow	12.5 kHz
Channel Step	5 kHz, 6.25kHz
Channel Spread	40 MHz
Current Drain	
Standby	Less than 0.4 A
Receive	Less than 1.0 A
Transmit	Less than 8.0 A
Antenna Impedance	50 Ω
Operating Voltage	13.6 V DC ± 20 %
Operating Temperature Range	-22° F ~ +140° F (-30° C ~ +60° C)
Frequency Stability	±0.00025% (-22° F ~ +140° F)
Dimensions (W x H x D)	5-1/2 x 1-1/2 x 5-3/4 in. (140 x 40 x 145 mm)
Weight (net)	2.07 lbs. (940 g)
FCC ID	ALH29383110

Model	TK-863G
<b>RECEIVER (Measurements made per EIA/TIA-603)</b>	
Sensitivity (12dB SINAD)	
Wide	0.28 μV
Narrow	0.35 μV
Selectivity	
Wide	80 dB
Narrow	65 dB
Intermodulation Distortion	
Wide	75 dB
Narrow	63 dB
Spurious Response	85 dB
Audio Output	4 W with less than 5% distortion
<b>TRANSMITTER (Measurements made per EIA/TIA-603)</b>	
RF Power Output	25 W
Spurious	65 dB
FM Noise	
Wide	50 dB
Narrow	45 dB
Modulation	
Wide	16KØF3E
Narrow	11KØF3E
Audio Distortion	Less than 3%

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

LTR® is a registered trademark of Transcript International.

# Applicable MIL-STD

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>Humidity</b>	507.1/Procedure I, II	507.2/Procedure II, III	507.3/Procedure II, III	507.4
<b>Sand &amp; 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 Cat.8	514.4/Procedure I Cat.8	514.5/Procedure I Cat.20
<b>Shock</b>	516.2/Procedure I, II, III, V	516.3/Procedure I, IV, V	516.4/Procedure I, IV, V	516.5/Procedure I, IV, V

footnotes from front:

<sup>1</sup> Ignition sense requires KCT-18, 19.

<sup>2</sup> Public Address / Horn Alert Option requires KAP-1 PA/HA Unit and KCT-19 ACC Cable Options.



ISO9001 Registered  
Communications Equipment Division  
Kenwood Corporation  
ISO9001 certification

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