

# Options

## KMC-35

Microphone  
(supplied microphone)



## KCT-36

3m Extension Cable  
(for KCT-39)



## KES-5

External Speaker  
(requires KAP-2)



## KPS-15

DC Power Supply



## KMC-36

Keypad Microphone



## KCT-39

Connection Cable



## KMB-10

Key Lock Adapter



## KDS-100

Mobile Data Terminal  
(requires KCT-39 option)



## KMC-9C

Control Station  
Desktop Microphone



## KAP-2

Horn Alert/Public  
Address Relay Unit



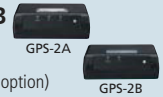
## KLF-2

Line Noise Filter



## KGP-2A/2B

GPS Receiver /  
Modem Unit  
(requires KCT-39 option)



## KCT-18

Ignition Sense Cable  
(requires KCT-39 option)



## KES-3

External Speaker



# Specifications

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.

Model	TK-7160	TK-7160H	TK-8160	TK-8160H
<b>GENERAL</b>				
Frequency Range	136~174 MHz		450~490 MHz	
Number of Channels				
Zone	Max. 128 per Radio			
Channel	Max. 128 per Zone			
Channel Spacing				
Wide	25 kHz, 30 kHz		25 kHz	
Narrow	12.5 kHz, 15 kHz		12.5 kHz	
Operating Voltage	13.6 V DC±15 %			
Current Drain				
Standby	0.4 A	0.4 A	0.4 A	0.4 A
Receive	1.0 A	1.0 A	1.0 A	1.0 A
Transmit	8.0 A	14.0 A	8.0 A	14.0 A
Duty Cycle	Transmit: 20 %			
Operating Temperature Range	-22 °F ~ +140 °F (-30 °C ~ +60 °C)			
Frequency Stability	±0.00025 % (-22 °F ~ +140 °F)			
Antenna Impedance	50 Ω			
Channel Frequency Spread	38 MHz		40 MHz	
Dimensions (W x H x D), Projections not included	6-5/16" x 1-11/16" x 5-3/8" (160 mm x 43 mm x 137 mm)			
Weight (net)	2.6 lbs. (1.18 kg)			
FCC ID	K4437663110	K4437663210	K4437673110	K4437673210
IC Certification	—	282F-37663210	—	282F-37673210

\* FleetSync® is not compatible with FleetSync® II offered in some Kenwood products.  
 \*\* The 20-pin 160-Series Easy Option Port is a not compatible with the Kenwood 26-pin Easy Option Port connector/options.  
 The traditional PCB connections are available for wired-in boards not having a 20-pin Easy Option Port connector.  
 FleetSync® is a registered trademark of Kenwood Corporation.  
 Windows® is a registered trademark of Microsoft Corporation in the United States and other countries.  
 All other trademarks are property of their respective owners.

# 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	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 II	506.2/Procedure II	506.3/Procedure II	506.4/Procedure 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	516.4/Procedure I, IV, V	516.5/Procedure I, IV, V

\* MILSTD-810 506.X Procedure II "rain drip" specifications are conditional on installed KMC-35/36 microphones and supplied accessory connector covers.

Model	TK-7160	TK-7160H	TK-8160	TK-8160H
<b>RECEIVER (Measurements made per EIA/TIA-603)</b>				
Sensitivity (12dB SINAD)				
Wide			0.28 μV	
Narrow			0.35 μV	
Selectivity				
Wide			75 dB	
Narrow			65 dB	
Intermodulation Distortion				
Wide			70 dB	
Narrow			60 dB	
Spurious Response	75 dB			
Audio Output (4 Ω Impedance)	4 W with less than 5 % distortion			
<b>TRANSMITTER (Measurements made per EIA/TIA-603)</b>				
RF Output Power	5 W / 25 W	25 W / 50 W	5 W / 25 W	25 W / 45 W
Spurious Response	70 dB			
Type of Emission				
Wide			16K0F3E	
Narrow			11K0F3E	
FM Hum & Noise				
Wide			45 dB	
Narrow			40 dB	
Microphone Impedance	600 Ω			
Audio Distortion				
Wide			3 %	
Narrow			5 %	

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

footnotes from front:

- <sup>1</sup> DTMF includes PTT ID, Emergency ANI, Manual Encode (KMC-36), Auto-Dial (9 numbers) & Stun.
- <sup>2</sup> Special Alert Tone Patterns operate for 2-Tone, DTMF, FleetSync® selective call decode.
- <sup>3</sup> Call Key 1 & 2: operates for 2-Tone, DTMF and FleetSync® status encode.
- <sup>4</sup> KCT-39 required for 4 CH remote control, ignition sense (KCT-18), KGP-2A/B, KDS-100, data modems, external GPS interface.
- <sup>5</sup> KCT-39 & KCT-18 ignition sense cable options required.
- <sup>6</sup> KAP-2 required: Horn Alert operates for FleetSync®, 2-Tone or DTMF selective call decode.
- <sup>7</sup> KPG-99D program software required: Windows®98/ NT/2000/ Me/XP compatible; English/Spanish program screen languages.
- <sup>8</sup> FleetSync® GPS features require a KCT-39 and an external GPS receiver with NMEA TTL level serial data output; set Port 1 & 2 (Inputs) to "GPS NMEA."

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