

# KENWOOD

Listen to the Future



## TK-980/981

(800/900 MHz) FM Mobile Radios

**FleetSync**<sup>®</sup>  
by KENWOOD

### GENERAL FEATURES

- 15 W 800 & 900 MHz Models
- Trunked Format<sup>1</sup>
- LTR<sup>®</sup> Trunked Systems
- Conventional Systems
- 32 Systems / 250 Groups
- System Scan
- List Type System Scan
- 10 Character Alphanumeric Aliases
- Backlit Dot Matrix LCD
- 3-Digit Sub-Display
- Function / Status LCD Icons
- Transmit / Busy / Call Alert / Warn LED
- 6 Backlit PF Keys
- 500 mW Speaker Audio
- Companded Audio
- Encryption / ANI Board Control

- Emergency Call Features
- DTMF Encode / Decode<sup>2</sup>
- Time Out Timer
- Timed Power Off
- ACC Cable Option
- Ignition Sense<sup>3</sup>
- Public Address / Horn Alert Option<sup>4</sup>
- Dynamic Mobile Mic Included
- MIL-Spec Noise-canceling Mic Option
- MIL-Spec 12-Key Noise-canceling Mic Option
- Windows<sup>®</sup> Programming & Tuning<sup>4</sup>
- Windows<sup>®</sup> Firmware Uploading<sup>5</sup>
- Front Panel Test / Tune
- Cloning
- MIL-STD-810 C/D/E/F
- NPSPAC Option

### CONVENTIONAL ZONES

- QT / DQT
- Single Priority Group Scan
- Busy Channel Lockout

### TRUNKED ZONES<sup>6</sup>

- Kenwood LTR<sup>®</sup> Features<sup>6</sup>

### FleetSync<sup>® 7</sup>

- PTT ID Digital ANI
- Selective Call & Group Call
- Status Messaging
- Emergency Status
- Caller ID Display
- Short Text Messages<sup>8</sup>
- PC Serial Interface



# 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-31</b> PC Serial Interface Cable</li> <li><b>KES-3</b> External Speaker</li> <li><b>KES-5</b> External Speaker</li> </ul>	<ul style="list-style-type: none"> <li><b>KMB-2B</b> Mounting Case</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-980	TK-981
<b>GENERAL</b>		
Frequency Range		
Type 1 (RX)	851 ~ 870 MHz	935 ~ 941 MHz
Type 2 (TX)	806 ~ 825 MHz,	896 ~ 902 MHz,
Type 3 (Talk Around)	851 ~ 870 MHz	935 ~ 941 MHz
Systems	Max. 32	
Group	Max. 250 per system	
Channels		
LTR® Mode (Conventional)	Max. 600 Max. 250	
PLL Channel Spacing	25 kHz	12.5 kHz
	(PLL step: 12.5 kHz)	
Operating Voltage	13.6 V DC ± 15 %	
Current Drain		
Standby	Less than 0.4 A	
Receive	Less than 1.0 A	
Transmit	Less than 7.0 A	
Duty Cycle	Transmit: 20%	
Operating Temperature Range	-22° F ~ +140° F (-30° C ~ +60° C)	
Frequency Stability	±0.00015% (-22° F ~ +140° F)	
Antenna Impedance	50 Ω	
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	ALH24563110	ALH24572110
IC Certification	282195546A	282195545A

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<b>RECEIVER (Measurements made per TIA/EIA-603)</b>		
Sensitivity (12 dB SINAD)	0.25 μV	
Selectivity*	75 dB	68 dB
Intermodulation Distortion	70 dB	65 dB
Spurious Response*	80 dB	
Audio Output	4 W with less than 5% distortion	
Channel frequency spread	19 MHz	6 MHz
<b>TRANSMITTER (Measurements made per TIA/EIA-603)</b>		
RF Power Output	15 W	
Spurious & Harmonics	60 dB	
Modulation	16KØF3E	11KØF3E
FM Noise	45 dB	40 dB
Audio Distortion	Less than 3%	Less than 5%
Microphone Impedance	Low Impedance	
Channel Frequency Spread	64 MHz	45 MHz

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

FleetSync® is a registered trademark of Kenwood Corporation.  
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	514.4/Procedure I	514.5/Procedure I
<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:

- Trunked Format: 32 Systems max. (prog. for LTR® or Conventional), 250 Groups per system max (limited per repeater channels programmed).
- DTMF Encode includes PTT ID, Emergency ANI, Manual Encode (KMC-28A DTMF mic required), Auto-Dial (32 numbers); DTMF Decode includes Stun (dead beat disable), primary/secondary selective call with call alert and transpond.
- Ignition sense requires KCT-34 ACC cable & KCT-18 Ignition sense cable options.
- Public Address / Horn Alert Option- requires KAP-1 PA/HA Unit and KCT-34 ACC Cable options.
- KPG-49D required: Windows® 98/NTI 2000/Me/XP compatible.
- Kenwood LTR® Features: KPG-49D Group Delete/Add, LTR® Talk Around, Scan Revert Group Display, System Scan, Group Scan, Auto Search.
- FleetSync® (not FleetSync® II capable)
- Short Text Messages are radio stored & LCD displayed.

# KENWOOD

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ISO9001 Registered  
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ISO9001 certification