

KENWOOD

Listen to the Future



TK-980/981

(800/900 MHz) FM Mobile Radios

FleetSync[®]
by KENWOOD

GENERAL FEATURES

- 15 W 800 & 900 MHz Models
- Trunked Format¹
- LTR[®] 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 / Decode²
- Time Out Timer
- Timed Power Off
- ACC Cable Option
- Ignition Sense³
- Public Address / Horn Alert Option⁴
- Dynamic Mobile Mic Included
- MIL-Spec Noise-canceling Mic Option
- MIL-Spec 12-Key Noise-canceling Mic Option
- Windows[®] Programming & Tuning⁴
- Windows[®] Firmware Uploading⁵
- 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 ZONES⁶

- Kenwood LTR[®] Features⁶

FleetSync^{® 7}

- PTT ID Digital ANI
- Selective Call & Group Call
- Status Messaging
- Emergency Status
- Caller ID Display
- Short Text Messages⁸
- PC Serial Interface



Options

<ul style="list-style-type: none"> KMC-9C Control Station Desktop Microphone KMC-27A Microphone (MIL-SPEC Noise-Canceling) KMC-27B Microphone KMC-28A Keypad Microphone (MIL-SPEC Noise-Canceling) KCT-18 Ignition Sense Cable 	<ul style="list-style-type: none"> KCT-19 Accessories Connector Cable KCT-31 PC Serial Interface Cable KES-3 External Speaker KES-5 External Speaker 	<ul style="list-style-type: none"> KMB-2B Mounting Case KMB-10 Key Lock Adapter KMB-20 Mounting Case KPS-15 DC Power Supply 	<ul style="list-style-type: none"> KLF-2 Line Noise Filter KAP-1 PA/HA Unit KDS-100 Mobile Data Terminal KGP-2A/2B GPS Receiver / Modem Unit
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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
GENERAL		
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

Model	TK-980	TK-981
RECEIVER (Measurements made per TIA/EIA-603)		
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
TRANSMITTER (Measurements made per TIA/EIA-603)		
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
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
Humidity	507.1/Procedure I, II	507.2/Procedure II, III	507.3/Procedure II, III	507.4
Sand & 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

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
Communications Equipment Division
Kenwood Corporation
ISO9001 certification