

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

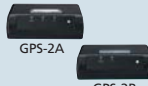
- Kenwood LTR[®] Features⁶

FleetSync^{® 7}

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



Options

KMC-9C Control Station Desktop Microphone 	KCT-19 Accessories Connector Cable 	KMB-2B Mounting Case 	KLF-2 Line Noise Filter 
KMC-27A Microphone (MIL-SPEC Noise-Canceling) 	KCT-31 PC Serial Interface Cable 	KMB-10 Key Lock Adapter 	KAP-1 PA/HA Unit 
KMC-27B Microphone 	KES-3 External Speaker 	KMB-20 Mounting Case 	KDS-100 Mobile Data Terminal 
KMC-28A Keypad Microphone (MIL-SPEC Noise-Canceling) 	KES-5 External Speaker 	KPS-15 DC Power Supply 	KGP-2A/2B GPS Receiver / Modem Unit 
KCT-18 Ignition Sense Cable 			

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	-22° F ~ +140° F	
Range	(-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	16K0F3E	11K0F3E
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:

¹ Trunked Format: 32 Systems max. (prog. for LTR® or Conventional), 250 Groups per system max (limited per repeater channels programmed).

² 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.

³ Ignition sense requires KCT-34 ACC cable & KCT-18 Ignition sense cable options.

⁴ Public Address / Horn Alert Option- requires KAP-1 PA/HA Unit and KCT-34 ACC Cable options.

⁵ KPG-49D required: Windows® 98/ NT/ 2000/ Me/XP compatible.

⁶ Kenwood LTR® Features: KPG-49D Group Delete/Add, LTR® Talk Around, Scan Revert Group Display, System Scan, Group Scan, Auto Search.

⁷ FleetSync® (not FleetSync® II capable)

⁸ Short Text Messages are radio stored & LCD displayed.

KENWOOD

Kenwood U.S.A. Corporation
Communications Sector Headquarters

3970 Johns Creek Court, Suite 100, Suwanee, GA 30024-1265

Order Administration/Distribution

P.O. BOX 22745, 2201 East Dominguez St., Long Beach, CA 90801-5745

Kenwood Electronics Canada Inc.
Canadian Headquarters and Distribution

6070 Kestrel Road, Mississauga, Ontario, Canada L5T 1S8



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