

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 |
|--|--|---|--|

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
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Kenwood Corporation
ISO9001 certification