

KENWOOD

Listen to the Future



TK-480/481

800/900 MHz FM Transceivers

FleetSync®
by KENWOOD

GENERAL FEATURES

- 2.5 W 800 MHz Models
- 2.5 W 900 MHz Models
- Trunked Format ¹
- LTR® Trunked Systems
- Conventional Systems
- 32 Systems / 250 Groups
- System Scan
- List Type System Scan
- 10 Character Alphanumeric Aliases
- Lighted Dot Matrix LCD
- 3-Digit Sub-Display
- Function / Status LCD Icons
- Transmit / Busy / Call Alert / Warn LED
- 4 Front Panel PF keys
- 2 Side PF Keys
- Orange Emergency / AUX Key
- 12-Key DTMF/PF Keypad ²
- 500 mW Speaker Audio
- Companded Audio
- Encryption / ANI Board Control
- Emergency Call Features
- Emergency Man-Down Option
- DTMF Encode / Decode ³
- Time Out Timer
- Low Battery Alert
- Weather-sealed ACC Connector

- MIL-Spec Speaker Mic Option
- Windows® Programming & Tuning ⁴
- Windows® Firmware Uploading ⁴
- Front Panel Test
- Cloning
- MIL-STD-810 C/D/E/F
- MIL-STD "Driven-Rain"
- Intrinsically Safe Option
- NPSPAC Option

CONVENTIONAL SYSTEMS

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

TRUNKED SYSTEMS

- Kenwood LTR® Features ⁵

FleetSync® ⁶

- PTT ID Digital ANI
- Selective Call & Group Call
- Status Messaging
- Emergency Status
- Caller ID Display
- Short Text Messages (Option) ^{7,8}
- PC Serial Interface (Option) ⁸



*Keypad model also available.
(Not actual size proportion)*

Options

- **KNB-16A**
Ni-Cd Battery Pack
(1100 mAh)
- **KNB-17A**
Ni-Cd Battery Pack
(1500 mAh)
- **KNB-17B**
Ni-Cd I.S. Battery Pack
(1500 mAh)
- **KNB-21N**
Ni-MH Battery Pack
(1600 mAh)
- **KNB-22N**
Ni-MH Battery Pack
(2100 mAh)
- **KNB-22NC**
Ni-MH I.S. Battery Pack
(2100 mAh)



- **KBP-4**
AA Refillable Battery Pack
(Holds 12 AA-Size Cells)
- **KSC-19**
Regular Rate
Ni-Cd Charger
- **KSC-24**
Rapid Rate Dual-Chemistry
Ni-Cd/Ni-MH Charger
- **KMB-16**
Multi-Charger Adapter
- **KVC-5A**
Heavy-Duty D.C. Vehicular
Drop-In Charger



- **KVC-3**
Regular Rate Vehicular
Charger Adapter for (KSC-19)
- **KVC-4**
Rapid Rate Vehicular
Charger Adapter for (KSC-24)
- **KMC-25**
MIL-SPEC Speaker Mic
- **KEP-1**
Heavy Duty Earphone
- **KHS-11**
2-Wire Palm Mic
with Earphone



- **KHS-12**
3-Wire Palm Mic
with Earphone
- **KHS-14**
Lightweight Single
Muff Headset
- **KHS-15-BH**
Heavy Duty
Behind-the-Head Headset
- **KHS-15-OH**
Heavy Duty
Over-the-Head Headset
- **KBH-10**
Low Profile Belt Clip



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-480	TK-481
GENERAL		
Frequency Range	RX: 851 ~ 870 MHz TX: 806 ~ 825 MHz, 851 ~ 870 MHz (Talk Around)	RX: 935 ~ 941 MHz TX: 896 ~ 902 MHz, 935 ~ 941 MHz (Talk Around)
System		Max. 32
Group		Max. 250 per system
Channel Capacity (Conventional)		Max. 600
PLL Channel Spacing (PLL step: 12.5 kHz)	25 kHz	12.5 kHz
Battery Voltage		7.5 V DC ± 20 %
Battery Life (5-5-90 Duty Cycle)		
KNB-16A Battery		8 hours
KNB-17A Battery		10 hours
KNB-21N Battery		10.5 hours
KNB-22N Battery		13 hours
Operating Temperature Range		-22° F ~ +140° F (-30° C ~ +60° C)
Frequency Stability (-22° F ~ +140° F)	±0.00025%	±0.00015%
Dimensions (W x H x D) [projections not included]		2-5/16 x 5-5/16 x 1-5/16 in. (58 x 135 x 34 mm) with KNB-21N battery
Weight (net)		17.3 oz. (490 g) with KNB-21N battery, antenna and belt hook
FCC ID	ALH22961110	ALH22992110
IC Certification	282195282	282195286

Model	TK-480	TK-481
RECEIVER (Measurements made per TIA/EIA-603)		
RF Input Impedance		50 Ω
Sensitivity (12 dB SINAD)		0.30 μV
Selectivity	70 dB: ±25 kHz	63 dB: ±12.5 kHz
Intermodulation Distortion	65 dB: ±25/50 kHz	60 dB: ±12.5/25 kHz
Spurious Response		70 dB (except 1/2 IF)
Audio Output		500 mW at 16Ω, with less than 5% distortion
Channel frequency spread	19 MHz	6 MHz
TRANSMITTER (Measurements made per TIA/EIA-603)		
RF Power Output		HI: 2.5 W, LO: 1 W
RF Output Impedance		50 Ω
Spurious & Harmonics		60 dB
Modulation	16KØF3E	11KØF3E
FM Noise	45 dB	40 dB
Audio Distortion		Less than 5%
Channel Frequency Spread	64 MHz	45 MHz

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 & IP

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 I, II	506.2/Procedure I, II	506.3/Procedure I, II	506.4/Procedure I, 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, V	516.3/Procedure I, IV	516.4/Procedure I, IV	516.5/Procedure I, IV

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 Keypad models only.

³ DTMF Encode includes PTT ID, Emergency ANI, Manual Encode (keypad models), Auto-Dial (32 numbers); DTMF Decode includes Stun (dead beat disable), primary/secondary selective call with call alert and transpond.

⁴ KPG-49D required: Windows®98/ NT/ 2000/ Me/XP compatible.

⁵ Kenwood LTR® Features: KPG-49D Group Delete/Add, LTR® Talk Around, Scan Revert Group Display, System Scan, Group Scan, Auto Search.

⁶ FleetSync® (not FleetSync® II capable).

⁷ Short Text Messages are radio stored & LCD displayed; requires FleetSync® enhanced option.

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ISO9001 certification