

Highly versatile. Kenwood's TK-780/880 mobile operates on multiple systems types; conventional, selcall, and wide/narrow with built-in DMS alphanumeric two-way paging system. The software driven modes, features sets and other technologies are built into a tough, compact package that meets dust resistance environmental specifications.

#### LARGE CHANNEL CAPACITY (MAX. 250)

Svnthesized channel frequency generation provides a maximum of 250 channels. Furthermore, frequencies and various configuration settings can be programmed independently in each channel.

#### **WIDE/NARROW CHANNEL**

The TK-780/880 can be programmed for 25 kHz, 20 kHz or 12.5 kHz spacing operation per channel.

#### LARGE DOT MATRIX LCD DISPLAY

The large, 12 + 3 digit dot matrix LCD display provides clear legibility under all lighting conditions from bright sunshine to total darkness



(with back light on). The LCD also offers multilanguage capability.

#### **ALPHANUMERIC TWO-WAY PAGING**

This function provides a built-in capability to send and receive both pre-stored status messages and custom alphanumeric text messages. The received pages are stored in memory so they can be reviewed.



#### **DMS: DIGITAL MESSAGE SYSTEM**

DMS (Digital Message System) prepares various functions such as PTT ID, CAD (computer-aided dispatch), selective call, status messages, short messages, long messages and emergency.

#### **5-TONE SIGNLAING**

Built-in 5tone encoder/decoder provides no fewer than 12 formats including the Kenwood format. It is also possible to set not only 5-tone but also 6tone, 7-tone, 2-by-5 tone, 3-by-5 tone signalling.

#### **DIGITAL ANI/EMERGENCY ANI**

Digital ANI modules can be added for PTT Unit ID and Emergency ANI operations on computer-aided dispatch and/or voice-recorder logged communications systems. A separate Emergency ANI flags dispatchers of units in distress and is triggered by a discrete "panic" switch connected to the accessorv port foot switch input.

#### **COMPACT VERSATILE MOUNTING**

The lightweight and compact size of the TK-780/880 facilitates easy mounting even in the tight or awkward positions found in today's automobiles. The front panel can be inverted for correct viewing while leaving the built-in speaker facing away from the mounting surface.



NHOOD

DD

#### **COMPANDED AUDIO**

The compandor noise-reduction feature enhances audio clarity on narrow bandwidth systems and is programmable per channel.

### FLASH MEMORY ADVANTAGE

CALL

ohone shown is available as an optic

Flash memory permits updates, advanced feature sets and system architectural changes to be made electronically without ever opening the unit. This means fast changes for the system operator and less down-time for users.

### **PUBLIC ADDRESS & HORN ALERT**

Public Address (PA) and Horn Alert (HA) capabilities are available with the optional KAP-1 unit. The PA function outputs mic audio through the radios external speaker or can feed a more powerful external public address amplifier. The Horn Alert output can be used to trigger a vehicle horn/light when a valid DTMF, 2-tone, 5-tone selective call or DMS emergency status call is received.

#### **ENCRYPTION CONTROL**

Encryption control provides secure voice communications for law enforcement or private security. An internal port permits addition of optional modules to provide voice scrambling high-level encryption types.

#### **OTHER FEATURES**

• MILT-STD 810 C/D/E • BUILT-IN QT/DQT • DTMF SIG-NALING • MULTIPLE SCANNING • TALK AROUNG • MINI-MUM VOLUME • PROGRAMMABLE FUNCTION KEYS • EMBEDDED MESSAGE • REMOTE STUN, REVIVE AND KILL • PC PROGRAMMING AND TUNING • PASSWORD-PROTECTED PROGRAMMING /CLONING • RADIO LOCK PASSWORD • ANNUNCIATION TONE CONTROL • PRO-GRAMMABLE ALERT TONE • QT/DQT OPERATOR SELEC-TABLE TONE • HIGH QUALITY AUDIO OUTPUT (4W)

# **Options**



Not all accessories may be available. Please contact your dealer for details.

## **Specifications**

		TK-780	TK-880	
GENERAL				
Frequency Range	Type 1: Type 3:	146 – 174 MHz(RX), 146 – 174 MHz(TX)	440 – 470 MHz(RX), 440 – 470 MHz(TX) 406 – 450 MHz(RX), 406 – 432 MHz(TX)	
Number of Channels		Max. 250	Max. 250	
Channel Spacing	Type 1: Type 3:	25 kHz / 20 kHz / 12.5 kHz	25 kHz / 20 kHz / 12.5 kHz 25 kHz / 12.5 kHz	
PLL channel stepping		5,6,25 KHz	5,6,25 KHz	
Antenna Impedance		50 Ω	50 Ω	
Operating Voltage		13.2 V DC ±15%	13.2 V DC ±15%	
Current Drain Standby Receive Transmit		0.4 A 1.0 A 8.0 A	0.4 A 1.0 A 8.0 A	
Operating Temperature Range		-30° C ~ +60° C	-30° C ~ +60° C	
Frequency Stability (-30° C ~ +60° C)		±2.5 ppm	±2.5 ppm	
Frequency spread Type 1: Type 3:		28 MHz	30 MHz 44 MHz(RX),26 MHz(TX)	
Dimensions (W x H x D)		140 x 40 x 145 mm	140 x 40 x 145 mm	
Weight (net)		940 g	940 g	
Applicable standards		ETS300 086, ETS300 113, ETS300 219, ETS300 279 EU directive 95 / 54 / EC	ETS300 086, ETS300 113 ETS300 219, ETS300 279 EU directive 95 / 54 / EC	

	TK-780	TK-880				
RECEIVER						
Sensitivity (EIA 12 dB SINAD) Sensitivity (ETS 20 dB SINAD) 25 kHz/20 kHz/12.5 kHz	0.25 µV/0.25 µV/0.32 µV -4 dBµV/-4dBµV/-2 dBµV -3 dBµV/-3dBµV/-2 dBµ					
Adjacent Channel Selectivity 25 kHz / 20 kHz / 12.5 kHz	80 dB / 80 dB / 70 dB	70 dB / 70 dB / 60 dB				
Intermodulation	70 dB	70 dB				
Spurious & Image Rejection	80 dB	80 dB				
Audio Output	$4~\text{W}$ at $4~\Omega\text{,}$ with less than 10% distortion	$4~\text{W}$ at $4~\Omega_{\text{r}}$ with less than 10% distortion				
Measurement	ETS standard	ETS standard				
TRANSMITTER	·	·				
RF power output	5 - 25 W	5 - 25 W				
Modulation Limiting	±5.0 kHz at 25 kHz ±4.0 kHz at 20 kHz ±2.5 kHz at 12.5 kHz	±5.0 kHz at 25 kHz ±4.0 kHz at 20 kHz ±2.5 kHz at 12.5 kHz				
Spurious Emission	-36 dBm ≤ 1 GHz -30 dBm > 1 GHz	-36 dBm ≤ 1 GHz -30 dBm > 1 GHz				
FM Noise (EIA) 25 kHz / 20 kHz / 12.5 kHz	50 dB / 50 dB / 45 dB	50 dB / 50 dB / 45 dB				
Modulation Distortion	Less than 3% at 1 kHz	Less than 3% at 1 kHz				
Microphone Impedance	600 Ω	600 Ω				
Measurement	ETS standard	ETS standard				

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

## **Applicable MIL-STD**

Standard	MIL 810C Methods/Procedures	MIL 810D Methods/Procedures	MIL 810E Methods/Procedures
Dust	510.1/Procedure I	510.2/Procedure I	510.3/Procedure I
Vibration	514.2/Procedure VIII, X	514.3/Procedure I	514.4/Procedure I
Shock	516.2/Procedure I, II, V	516.3/Procedure I, IV	516.4/Procedure I, IV



#### Kenwood Corporation ISO9001 certification

### KENWOOD CORPORATION

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