

KENWOOD

HF SSB RADIOTELEPHONE

TK-80



- Extremely rugged design for reliable service even in remote areas
- 500 kHz to 30 MHz continuous receiver coverage
- 1.8 MHz to 30 MHz transceiver coverage within legal spectrum allocations
- 80 channel memory for frequency, mode and RF power setting
- Simple to operate with large LCD display and memory channel scan
- Adjustable RF power output in 4 increments: 15W, 25W, 50W and 100W
- Internal and external antenna tuner options
- Data communications capable up to 300 bps AFSK/FSK
- Optional Selective Call System (with optional KPE-1)
- VOX capability with optional PC-1A Phone Patch interface

Rugged Simplicity — Introducing the new Kenw

The TK-80's design combines a high-performance HF transceiver with elegant user simplicity, all rolled into a tough, compact package that will deliver many years of dedicated field service.



Easy to learn, easy to use

The large backlit LCD display

provides high visibility in most lighting conditions, with alphanumeric channel designations up to 7 characters, frequency, memory channel number, mode, signal meter, and transmit indicator.



80 Memory Channels are available for custom set-up of transceiver and monitoring frequencies.

Memory Channel Scan features carrier-operated and time-operated modes; receive threshold for both can be dynamically controlled by adjusting the squelch volume.

Selective Calling System is an option (KPE-1 required) that enables individual, group or open calling, and is ideal for distributed networks of HF transceivers.

VOX (Voice Operated Xmit) is another feature that makes the TK-80 convenient and easy to use. And with the optional PC-1A Phone Patch Interface it provides telephone patch capabilities as well.

Data Mode at the touch of a button allows computer communications on USB/LSB at up to 300 bps in AFSK or FSK modes. Useful for data acquisition, text-based file transfers and other low-speed data communications applications.



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Reliability and Performance

Tough aluminum monocoque chassis provides reliable performance year after year in adverse climatic conditions, from the Antarctic to the Amazon. Meets MIL-STD 810D specifications.

All mode General Coverage Receiver from 500 kHz through 30 MHz continuous for easy monitoring of all HF bands.

100 watts output with an antenna tuner gives you the punch needed to drive any antenna system. The RF output is adjustable in 4 steps, 100W, 50W, 25W and 15W, which can be assigned to any memory channel. The maximum output is also dealer-adjustable down to 50W, 25W and 15W.

Internal or External Antenna Tuner options gives you a flexible range of antenna choices. The internal KAT-2 does not increase the size of the radio, and is ideal for yagi, ground plane and dipole type antennas. The external KAT-1 is for mounting at the base of aperiodic antennas such as whips and long wires.

Advanced Intercept Point (AIP) feature expands dynamic range and minimizes cross-talk interference (dealer setting). In addition, the Noise Blanker cuts pulse-type noise and the optional 500 Hz CW filter (YK-107C) reduces interference for morse code operation.

CW full and semi break-in can be set with the key delay time control.

The Clarifier allows fine adjustment of receive frequency for best audio clarity, set up by the dealer in either 10 Hz or 1 Hz steps.













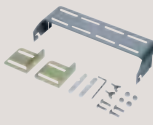
● Despite its compact size, the TK-80 still has room for an internal antenna tuner (KAT-2).

Included Accessories

- Owner's manual
- DC cable
- Microphone
- Fuses (25A/4A)

Kenwood Radios Mean Business.

Optional Accessories

 <p>KAT-2 Internal Automatic Antenna Tuner</p>	 <p>KIF-1 SSB Filter (2.7 kHz)</p>	 <p>PS-53 DC Power Supply (22.5 A)</p>
 <p>KAT-1 External Automatic Antenna Tuner</p>	 <p>YK-107C CW Filter (500 Hz)</p>	 <p>PS-33 DC Power Supply (20.5 A)</p>
 <p>MC-60A Desktop Microphone</p>	 <p>S0-2 Temperature Controlled Crystal Oscillator (TCXO)</p>	 <p>HS-6 Headphones</p>
 <p>KPE-1 Selective Call Kit</p>	 <p>MB-430 Mobile Mount Bracket</p>	

* Not all accessories may be available, please contact dealers for details.

Specifications

TK-80		
GENERAL		
Transmitter frequency range	TK-80 1.8 ~ 2.39999 MHz 3.5 ~ 4.49999 MHz 6.0 ~ 7.99999 MHz 11.0 ~ 14.49999 MHz 16.0 ~ 21.49999 MHz *24.0 ~ 29.99999 MHz	TK-80 + KAT-2 2.0 ~ 2.39999 MHz 3.5 ~ 4.49999 MHz 6.0 ~ 7.99999 MHz 11.0 ~ 14.49999 MHz 16.0 ~ 21.49999 MHz *24.0 ~ 29.99999 MHz
Receiver frequency range	0.5 ~ 29.99999 MHz	
Modes	J3E (SSB), A1A (CW), A3E (AM), F1D (FSK), F2D (AFSK)	
Operating temperature	-20°C ~ +60°C	
Power requirement	13.6 V DC ±15% (negative ground)	
Current drain Receive Transmit	Less than 1.45 A Less than 20.5 A	
Frequency stability	-10°C ~ +50°C, within ±10 ppm -20°C ~ +60°C, within ±15 ppm -10°C ~ +50°C, within ±0.5 ppm (with S0-2) -20°C ~ +60°C, within ±1.0 ppm (with KPE-1)	
MIL-STD 810D	Vibration: Method 514.3, Category 10, Procedure 1 Shock: Method 516.3, Category 10, Procedure 4	
Antenna impedance	50 Ω	
Dimensions (W x H x D)	270 x 96 x 271 mm	
Weight (net)	5.2 kg	6.45 kg with KAT-2

* South Africa: 24.0 ~ 25.99999 MHz

RECEIVER	
Circuitry	Double conversion superheterodyne
Intermediate frequencies 1st IF 2nd IF	73.045 MHz 10.695 MHz
Sensitivity SSB/CW/FSK (10 dB S/N) AM (10 dB S/N)	Less than 4 μV (0.5 ~ 1.79999 MHz); Less than 0.25 μV (1.8 ~ 29.99999 MHz) Less than 32 μV (0.5 ~ 1.79999 MHz); Less than 2.5 μV (1.8 ~ 29.99999 MHz)
Spurious response IF image ratio IF rejection	More than 70 dB More than 80 dB
Selectivity SSB/CW/FSK AM CW (with YK-107C)	More than 2.2 kHz (-6 dB); Less than 4.8 kHz (-60 dB) More than 5.0 kHz (-6 dB); Less than 40.0 kHz (-60 dB) More than 0.5 kHz (-6 dB); Less than 2.0 kHz (-50 dB)
Clarifier variable range	±1.1 kHz (10 Hz step)/ Dealer setting: ±110 Hz (1 Hz step)
Audio output	More than 3.5 W (4 Ω, 10% distortion)
Audio output impedance	4 Ω
TRANSMITTER	
RF power output SSB/CW/FSK AM (unmodulated signal)	100 W 25 W
Carrier suppression	More than 40 dB
Unwanted sideband suppression	More than 50 dB (1.0 kHz)
Microphone impedance	600 Ω

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



ISO9001 FM34304 JQA-1205
Communications Equipment Division
Kenwood Corporation
ISO9001 certification

KENWOOD CORPORATION

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