

# 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.



# ood TK-80.

## 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.

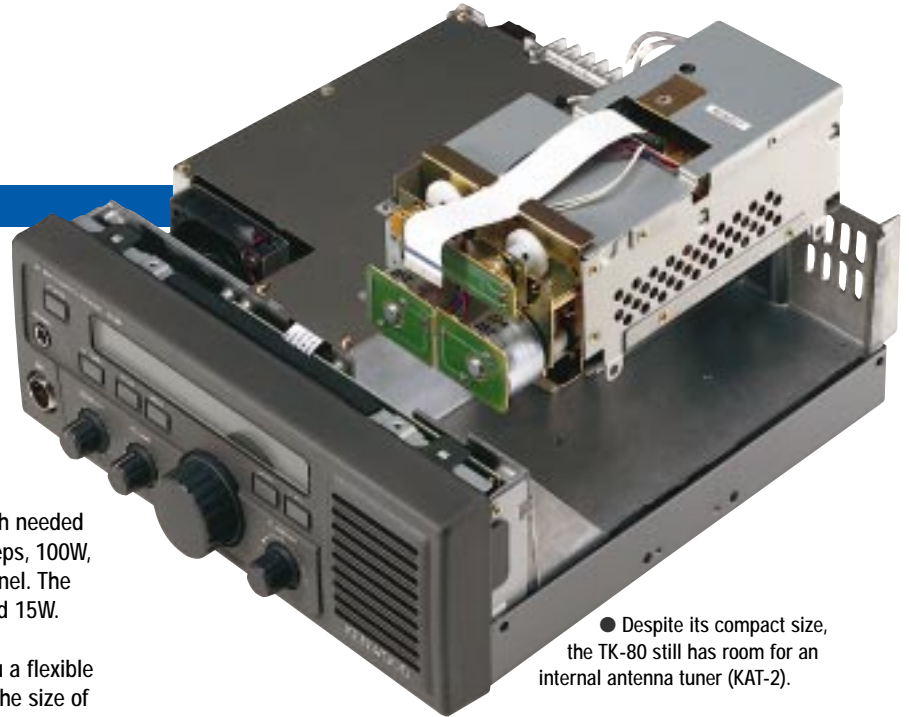
**100 watts output** with an antenna tuner gives you the punch needed to drive any antenna system. The RF output is adjustable in 4 steps, 100W, 50W, 25W and 15W, which can be assigned to any memory channel. The maximum output is also dealer-adjustable down to 50W, 25W and 15W.

**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.











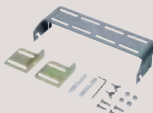


● Despite its compact size, the TK-80 still has room for an internal antenna tuner (KAT-2).

## Included Accessories

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

## Optional Accessories

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

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

## Kenwood Radios Mean Business.

# 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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