

KENWOOD

Optional Equipment



AT-50

Automatic antenna tuner
Useful for both mobile and fixed installations, this ensures good performance even at band edges. Accurate tuning is initiated simply by pressing the AT TUNE key on the TS-50S. And since band data is transferred to the tuner, there is no need to operate the AT-50 directly—it can be installed in a car's trunk. The AT-50 can also be used with other 100W HF transceivers.



AT-300

Automatic antenna tuner



PG-4M

Control cable for AT-50 (6m)
This cable links the TS-50S with the AT-50 and is used when the antenna tuner is installed in a car's trunk. It is 6m long.



MB-13

Mobile mount



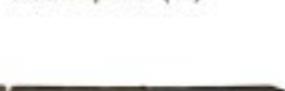
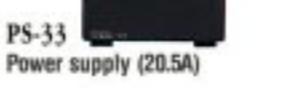
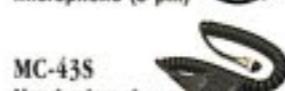
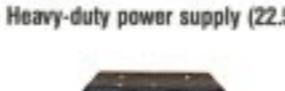
YK-107C

500Hz CW filter



SO-2

Temperature-compensated crystal oscillator



Specifications

General	
Mode	AM (5W), SSB (50W), ASK (AM), FSK (FM)
Memory channels	100
Antenna impedance	50Ω
Power requirement	13.8V DC ± 10%
Power consumption	1.4W
Receive (no signal)	29.5A
Transmit (Max.)	20 → +60°C
Temperature range	-20 → +50°C
Frequency stability	Less than ± 10 × 10 ⁻⁹ (-10°C → +50°C)
Dimensions (W × H × D)	17.1/8" × 2.3/8" × 9-3/16" inches (43.5 × 60 × 233mm)
Projections not included	
Weight	6.4kg (14.1lb)
Transmitter	
Frequency range	
80m band	1.725 – 2.000kHz
80m band	3.50 – 4.000kHz
40m band	6.5 – 7.5MHz
30m band	10.0 – 10.5MHz
20m band	13.5 – 14.5MHz
17m band	18.0 – 19.0MHz
15m band	20.5 – 21.5MHz
12m band	24.0 – 25.0MHz
10m band	27.0 – 30.0MHz
Output power	SSB, CW, FSK, FM
SSB, CW	100W
FM	25W
Modulation	
SSB	Balanced modulation
FM	Resistance modulation
AM	Low level modulation
Spurious radiation	less than -50dB
Carrier suppression	more than 40dB
Unwanted sidebands suppression	more than 40dB
Maximum frequency deviation (FM)	± 500Hz
Frequency response (SSB)	400 – 2600Hz (less than -10dB)
Microphone impedance	800Ω



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HF TRANSCEIVER

TS-50S

Enjoy high-performance communications plus go-anywhere convenience with the world's smallest HF transceiver





Born to be Free

station transceiver. Yet despite its compact dimensions, the TS-50S packs a hefty punch. Maximum output is 100W, and there's a powerful cooling fan with heat sink to



ensure stable operation. Sophisticated features include DDS with innovative "fuzzy" control, and Kenwood's own AIP. For user-friendly operation on the move, there's also a multi-function microphone, a handy menu system, and an optional antenna tuner. All this and more, for the TS-50S is equipped with dual VFOs for split-frequency operations.



Kenwood's TS-50S is going places. As the smallest HF transceiver in the world, it opens up a whole new world for the Amateur Radio enthusiast. It can be mounted in a vehicle, taken on a DX-pedition, or even permanently installed as a base



160m to 10m Amateur band operation with 500kHz to 30MHz general coverage receiver

Despite its small size (179mm wide, 60mm high, 233mm deep), the TS-50S offers transmit/receive performance on a par with most of the large HF transceivers on the market. Naturally, it supports LSB, USB, CW, AM and FM.

DDS (Direct Digital Synthesizer) with fuzzy control

For the first time, Kenwood has introduced "fuzzy" logic control circuitry to enable the main encoder to tune smoothly from 5Hz steps to fast forward mode.

AIP (Advanced Intercept Point)

Kenwood's AIP system—an exclusive circuit design capable of raising dynamic range to 105dB—ensures first-class receiver performance with a significantly reduced noise floor level.



100 memory channels

The TS-50S is equipped with 100 channels for independent storage of transmit and receive parameters such as frequency, mode, and filter setting. Memory shift facilitates transfer of data to the VFOs.

Easy-to-use scan functions

Convenience is further improved with the provision of a carrier-operated scan stop mode, a first for HF rigs.

Comprehensive interference reduction

• CW reverse mode

The pitch of interference competing with the CW signal is reversed so the operator can approach the signal from either side.

• All-mode squelch

The squelch circuit effectively suppresses undesirable background noise when there is no signal present.

• Switchable AGC circuit (SLOW/FAST)

AGC (automatic gain control) can be changed via the menu system. This ensures optimum receiver operation in SSB, AM and CW modes under all signal strength conditions.

• IF shift

• 20dB attenuator

• Noise blanker (pulse)

Powerful menu system

First featured on the top-of-the-line TS-950SDX, Kenwood's versatile menu system is provided on the TS-50S—to select CW full or semi break-in, change repeater sub-tone, adjust microphone UP/DOWN step size, and perform many other operations using just a few keys. The menus are also accessible via the supplied microphone.

Dual VFOs (A and B)

Since VFO data is stored independently for each band, even after switching bands the previously used frequency will still be available.

TF-SET

TF-SET is provided so the TS-50S can be used for split operations and DX applications. This function is available when the receive frequency is locked, so the operator can avoid losing a targeted DX station.



Multi-function microphone supplied

Like other Kenwood VHF mobile transceivers, the TS-50S is compatible with remote-control microphones featuring 4 programmable function keys.

RF output power control (100W, 50W, 10W)

Auto-mode capability

Full break-in and

semi break-in

Large LCD panel with digital bar meter

