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By SMOOFV
24 years and counting...

Last modified 2023-12-28



Kenwood TS-850S



www.rigpix.com

SPECIFICATIONS

GENERAL

Type:	Amateur HF transceiver
Frequency range:	TX: 10-160 m + WARC RX: 0.1-30 MHz 1 / 10 / 100 Hz
Tuning steps:	1 / 9 / 10 / 500 KHz 1 MHz
Frequency stability:	Max ±10 ppm @ -10 to +50°C (14 to 122°F) ±0.5 ppm with optional SO-2
Mode:	AM / FM / SSB / CW / FSK 90 regular and split 10 programmed scan
Channels / memory management:	5 quick memories RAM storage with lithium battery backup
Repeater shift / offset:	No dedicated. Use VFO A/B split instead
Power supply:	12-16 VDC
Current drain / power consumption:	RX: Max 2 A TX: Max 20.5 A
Antenna impedance / connector:	50 ohm / SO-239 (20-150 ohm with optional AT-850)
Dimensions (W*H*D):	339*135*375 mm (13.35*5.32*14.76")
Weight:	9.4 Kg (20.7 lb), without AT-850 option
Other features:	CTCSS/PL. Built-in keyer. AIP. VOX. Dimmer.

RECEIVER SECTION

Receiver system:	Triple conversion superheterodyne 1st IF: 73.05 MHz 2nd IF: 8.83 MHz 3rd IF: 455 KHz
Sensitivity:	AM (10 dB S+N/N) 0.1-0.5 MHz: 2 uV 0.5-1.62 MHz: 32 uV 1.62-24.5 MHz: 0.2 uV 24.5-30 MHz: 1.3 uV FM (12 dB SINAD) 28-30 MHz: 0.25 uV SSB/CW/FSK (10 dB S+N/N, without optional filters) 0.1-0.5 MHz: 0.2 uV 0.5-1.62 MHz: 4 uV 1.62-24.5 MHz: 0.2 uV 24.5-30 MHz: 0.13 uV
Selectivity:	AM 6 KHz (-6 dB) 15 KHz (-60 dB) FM 12 KHz (-6 dB) 24 KHz (-60 dB)

SSB/CW/FSK

2.4 KHz (-6 dB)

3.8 KHz (-60 dB)

Image rejection:

80 dB

AF output power / speaker:

1.5 W at 10% distortion / 8 ohm

External speaker connector:

3.5 mm, 8 ohm

TRANSMITTER SECTION

	Pwr
RF output power:	AM: 10-40 W
	FM: 20-100 W
	SSB: 20-100 W
	CW/FSK: 20-100 W
Modulation system:	AM: Low level modulation
	FM: Reactance modulation
	SSB: Balanced modulation
Max FM deviation (Factory set):	±5 KHz
Spurious emissions:	Better than -60 dB
Microphone impedance / connector:	600 ohm / 8-pin (Metal locking ring connector)
Microphone input level:	? mV

MISCELLANEOUS

Manufactured:	199x-199x (Discontinued)
Additional info:	New price 1992 in Sweden: SEK 18894:-
Related documents:	Service manual (28.6 MB)
Modifications and fixes:	
Reviews:	

Options / Accessories:	AT-300	External automatic antenna tuner
	AT-850	Internal automatic antenna tuner. 10-160 m
	DRU-2	Digital recording unit
	DSP-100	DSP unit
	HS-5	Light-weight communications headphones, 8 ohms
	HS-6	Deluxe light-weight communications headphones, 12.5 ohms
	IF-232C	RS-232C interface
	LF-30A	Low pass filter
	MC-43S	Dynamic hand mike with up/down switches
	MC-60A	Desktop mike with up/down switches and impedance selector
	MC-80	Desktop electret condenser mike with up/down switches
	MC-85	Desktop electret condenser mike. 3 line outputs
	PS-31	DC power supply
	PS-52	Heavy duty DC power supply. 13.8 VDC, 20.5 A. Cooling fan.
	SM-230	Station monitor
	SO-2	TCXO unit. 20 MHz. ±0.5 ppm
	SP-31	External matching speaker
	TL-922	Linear amplifier, 1 KW, 10-80 m
	TL-922A	Linear amplifier, 1 KW, 15-80 m (US version)
	VS-2	Voice synthesizer
	YG-455C-1	500 Hz CW narrow filter. IF: 455 KHz
	YG-455CN-1	250 Hz CW narrow filter. IF: 455 KHz
	YK-88C-1	500 Hz CW narrow filter. IF: 8.83 MHz
	YK-88CN-1	270 Hz CW narrow filter. IF: 8.83 MHz
	YK-88SN-1	1.8 KHz SSB narrow filter. IF: 8.83 MHz