

2. SPECIFICATIONS AND ACCESSORIES

2-1. SPECIFICATIONS

Specifications		Model	TS-140S	
General	Mode	J3E (LSB, USB), A1A (CW), A3E (AM), F3E (FM)		
	Antenna impedance	50 ohms		
	Power requirement	12 to 16 VDC (13.8 VDC reference)		
	Grounding	Negative		
	Current drain	Receive mode with no input signal	1.5 A	
		Transmit mode	20 A	
	Operating temperature	- 10 to + 50°C (+ 14 to + 122°F)		
	Frequency stability	Less than ± 10 PPM		
	Frequency accuracy	Less than ± 10 PPM		
	Dimensions (W × H × D) (Projections included)	281 × 107 × 305 mm (11-1/16" × 4-7/32" × 12")		
Weight	6.1 kg (13.4 lbs)			
Transmitter	Frequency range	160 m band	1.8 to 2.0 MHz	
		80 m band	3.5 to 4.0 MHz	
		40 m band	7.0 to 7.3 MHz	
		30 m band	10.1 to 10.15 MHz	
		20 m band	14.0 to 14.35 MHz	
		17 m band	18.068 to 18.168 MHz	
		15 m band	21.0 to 21.45 MHz	
		12 m band	24.89 to 24.99 MHz	
		10 m band	28.0 to 29.7 MHz	
	Output power	160 m band ~ 15 m band	SSB	110 W ±1
			CW	100 W ±1
			AM	40 W ±1
		12 m band	SSB · CW	100 W
			AM	40 W
		10 m band	SSB	100 W
			CW	95 W
			FM	50 W
	Modulation		AM	40 W
			LSB, USB	Balanced modulation
FM			Reactance modulation	
AM			Low level modulation	
Spurious radiation (CW)	Less than - 40 dB			
Carrier suppression	More than 40 dB (with 1.5 kHz reference)			
Unwanted sideband suppression	More than 50 dB (with 1.5 kHz reference)			
Maximum frequency deviation (FM)	± 5 kHz			
Frequency response (- 6 dB)	400 to 2600 Hz			
Microphone impedance	500 ohms to 50 kΩ			

Specifications		Model	TS-140S	
Receiver	Circuitry		Double conversion superheterodyne	
	Frequency range		500 kHz to 30 MHz	
	Intermediate frequency		1st: 40.055 MHz, 2nd: 455 kHz	
	Sensitivity	LSB, USB, CW (at 10 dB S + N/N)	500 kHz to 1.6 MHz	Less than 3.98 μ V
			1.6 MHz to 21.5 MHz	Less than 0.25 μ V
			21.5 MHz to 30 MHz	Less than 0.25 μ V
		AM (at 10 dB S + N/N)	500 kHz to 1.6 MHz	Less than 39.8 μ V
			1.6 MHz to 21.5 MHz	Less than 2.5 μ V
			21.5 MHz to 30 MHz	Less than 2.5 μ V
	FM (at 12 dB SINAD)	21.5 MHz to 30 MHz	Less than 0.35 μ V	
	Selectivity	LSB, USB, CW		-6 dB: 2.2 kHz, -60 dB: 4.4 kHz
		AM		-6 dB: 6 kHz, -50 dB: 18 kHz
		FM		-6 dB: 12 kHz, -50 dB: 25 kHz
	Image ratio		More than 50 dB	
	1st IF rejection		More than 50 dB	
	IF SHIFT variable range		More than \pm 1.2 kHz	
RIT variable range	10 Hz STEP		More than \pm 1.2 kHz	
	20 Hz STEP		More than \pm 2.5 kHz	
Squelch sensitivity (FM)		Less than 0.32 μ V		
Output		1.5 W across 8 ohms load (10% distortion)		
Output load impedance		8 ~ 16 ohms		

- Notes:**
- * 1: The output power on the 160 m band is limited to 10 W depending on local regulations.
 - Circuit and ratings are subject to change without notice due to advancements in technology.

2-2. ACCESSORIES

Unpack your TS-140S carefully and confirm that it is supplied with the following accessories.

DIN plug (7-pin).....	E07-0751-05.....	1 ea.
DIN plug (13-pin).....	E07-1351-05.....	1 ea.
DC power cable assembly.....	E30-2065-05.....	1 ea.
Calibration cable.....	E31-2154-05.....	1 ea.
Fuse (20A).....	F05-2036-05.....	1 ea.
Instruction manual.....	B50-8200-XX.....	1 copy
Warranty card.....		1 ea.

After unpacking

Shipping container:

Save the boxes and packing in the event your unit needs to be transported for remote operation, maintenance, or service.