

2. SPECIFICATIONS AND ACCESSORIES

2-1. SPECIFICATIONS

General		Transmitter-B	
Mode	J3E (LSB, USB) A1A(CW), A3E(AM) F3E(FM) F1A(FSK)	Modulation	SSB Balanced modulation. FM Reactance modulation. AM Low level modulation.
Memory Channels	100 Channels.	Spurious radiation	Less than -40dB
Antenna impedance	50 ohms. (With Antenna Tuner 20~150 ohms.)	Carrier suppression(with 1.5kHz reference.)	More than 50dB
Power requirement	K and P type (120VAC±10%) M type (120/230VAC±10%) E type (230VAC±10%) T type (220/240VAC±10%) X type (120/240VAC±10%)	Unwanted sideband suppression (with 1.5kHz reference)	More than 60dB.
Power dissipation		Maximum frequency deviation (FM)	Less than ±5kHz.
Receive mode with no input signal	110W	Frequency response (-6dB)	100 to 3100Hz.
Transmit mode	700W (7.5A)	XIT variable range	±9.99kHz.
Operating temperature	-10 to +50°C (+14 to +122°F)	Microphone impedance	250 ohms to 600 ohms.
Frequency stability	Less than ±0.5 PPM.		
Frequency accuracy	Less than ±0.5 PPM.		
Dimensions (W×H×D)	409×154×446mm (Projections included 16-3/22"×6-1/16"×17-9/16")		
Weight	23kg (50.6lbs)		
Transmitter-A		Receiver-A	
Frequency range		Circuitry	
160m band	1.8 to 2.0 MHz	Main SSB, CW, FSK, AM	Quadruple conversion superheterodyne.
80m band	3.5 to 4.0 MHz	FM	Triple conversion superheterodyne.
40m band	7.0 to 7.3 MHz	Sub SSB, CW, FSK	Double conversion superheterodyne.
30m band	10.1 to 10.15 MHz	Frequency range	100kHz to 30MHz.
20m band	14.0 to 14.35 MHz	Intermediate frequency	
17m band	18.068 to 18.168 MHz	Main 1st	73.05MHz
15m band	21.0 to 21.45 MHz	2nd	8.83MHz
12m band	24.89 to 24.99 MHz	3rd	455kHz
10m band	28.0 to 29.7 MHz	4th	100kHz
Output Power		Sub 1st	40.055MHz
(With auto antenna tuner in "THRU").		2nd	10.695MHz
1.9~24MHz SSB, CW, FSK, FM	150W (MAX) 20W (MIN)	Sensitivity	
AM	40W (MAX) 10W (MIN)	SSB, CW (at 10dB S + N/N)	
28MHz SSB, CW, FSK, FM	110W (MAX) 20W (MIN)	100kHz~150kHz	Less than 2.5 μV
AM	40W (MAX) 10W (MIN)	150kHz~490kHz	Less than 1 μV
		490kHz~1.62MHz	Less than 4 μV
		1.62MHz~30MHz	Less than 0.2 μV
		AM(at 10dB S + N/N)	
		100kHz~150kHz	Less than 25 μV
		150kHz~490kHz	Less than 10 μV
		490kHz~1.62MHz	Less than 32 μV
		1.62MHz~30MHz	Less than 2.0 μV
		FM(at 12dB SINAD)	
		28MHz~30MHz	Less than 0.5 μV
		Note	
		USA version only :	
		490kHz~1.62MHz →	490kHz~1.705MHz
		1.62MHz~30MHz →	1.705MHz~30MHz

Receiver-B

Selectivity	
SSB, AM(N), FSK	-6dB : 2.4kHz
	-60dB : 3.4kHz
AM(W)	-6dB : 6kHz
	-50dB : 15kHz
CW(W)	-6dB : 400Hz
	-60dB : 900Hz
FM	-6dB : 12kHz
	-60dB : 24kHz

Image ratio	More than 80dB.
1st IF rejection	More than 70dB.
Notch filter attenuation	More than 45dB.
RIT variable range	±9.99kHz

Squelch sensitivity	
SSB, CW, FSK, AM	
100kHz~150kHz	Less than 6.3 μ V
150kHz~490kHz	Less than 2.5 μ V
490kHz~1.62MHz	Less than 10 μ V
1.62MHz~30MHz	Less than 0.5 μ V
FM 28MHz~30MHz	Less than 0.32 μ V

Note

USA version only :

490kHz~1.62MHz	→ 490kHz~1.705MHz
1.62MHz~30MHz	→ 1.705MHz~30MHz

Output	1.5W across 8 ohms
	load. (10% distortion)
Output load impedance	8 ohms.

Notes

1. Circuit and ratings are subject to change without notice due to advancements in technology.
2. Remember to keep the transmitting output power within the power limitations of your license.

2-2. ACCESSORIES

Unpack your TS-950SDX carefully and confirm that it is supplied with the following accessories.

Quick Key Board (RM-1)	
X60-3240-00	 1 ea.
Dynamic microphone	
T91-0352-15	 1 ea.
DIN plug (7-pin)	
E07-0751-05	 1 ea.
DIN plug (13-pin)	
E07-1351-05	 1 ea.
Fuse (6A)(M type only)	
F05-6021-05	 1 ea.
Control location sticker	
B42-3371-04	 1 ea.
Instruction Manual	
B62-0229-XX	 1 copy.
External control Instruction Manual	
B62-0233-XX	 1 copy.
Circuit Diagram	
B62-0264-XX	 1 copy.
MENU KEY DISPLAY LIST	
B59-0456-XX	 1 copy.
Warranty card	
(U.S.A., Canada and Europe version only)	1 ea.

Attach the control location sticker on the upper case where it can be easily seen.

After unpacking

Shipping container:

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

For United Kingdom

The mains plug must be removed from the wall socket prior to any internal examination.

WARNING : THIS APPARATUS MUST BE EARTHED.

Important : The wires in this mains lead are coloured in accordance with the following code:

Blue	Neutral
Brown	Live
Green-and-Yellow	Earth

The wires in this mains lead must be connected to the terminals in the plug as follows:

Wire colour	Plug terminal marking
Blue	Letter N or coloured Black
Brown	Letter L or coloured Red
Green-and-Yellow	Letter E or  or coloured Green-and-Yellow or Green

