

TS-890S

[K] HF/50MHz TRANSCEIVER

[E] HF/50MHz/70MHz TRANSCEIVER

Outstanding RX Performance for HF Enthusiasts

The hybrid configuration of Down-conversion RX and IF Direct Sampling Band Scope promises the best performance for your DX Life

Illustrated exteriors & displayed contents
may have possibility varied from mass-productions



MODEL	TYPE	FREQ. / PWR	MP	LAUNCH	SUPPLIED ACC
TS-890S	K	HF/50MHz [RF PWR: 100W(AM: 25W)]	Aug. 2018	Sep. 2018	Warranty card, Circuit diagram, DC Power Cord, Fuse(25A), Ext AT:4A, 7-pin DIN plug, 13-pin DIN plug, I/M ([K]:E,F/[E]:E,S,F,G,D,I) E:English, S:Spanish, F:French, G:German, D: Dutch, I: Italian
	E	HF/50/70MHz [RF PWR: 100W(AM: 25W) /70MHz: 50W(AM: 12.5W)]			

All contents may vary from mass-production

PRODUCT HIGHLIGHTS

[NEW] NEWS for KENWOOD

[IMP] IMPROVED from TS-990S

All contents may vary from mass-production

- [NEW] HF/50MHz & 70MHz (E-type)
 - > Frequency range:
 - RX: 100kHz - 60MHz (- *74.8 MHz) continuous (*[E]-type) (VFO works from 30kHz)
Spec. guaranteed in each amateur band only
 - TX: 1.8MHz - 50MHz (- *70MHz) each amateur bands (*[E]-type) (135kHz / 476kHz from drive out)
- TX Output Power (AM): 100W (25W) [E]-type: 70MHz 50W (12.5W) - 5W
- Emission types:
 - SSB / CW / FSK / PSK / FM / AM
- Built-in High Stability Reference oscillator: $\pm 0.1\text{ppm}$
- [IMP] High dynamic characteristics
- Equipped 4 roofing filters:
 - 500Hz/ 2.7kHz/ 6kHz/ 15kHz
- Expansion slot for Optional filter (270Hz)
- [NEW] Two types of S-METER scales
- [IMP] 7" TFT color display w/Touch panel
- 32-bit Floating-point DSP: Two ICs
- Interference/Noise Reduction:
 - [NEW] AGC Quick Recovery from Pulse Noise
 - IF: LO CUT/HI CUT(SSB/AM), WIDTH/SHIFT(CW/FSK), Notch Filter, NB1, NB2(A & B Type)
 - AF: APF(CW w/t peak gain)/TPF(FSK), Beat Cancel 1/2, Noise Reduction 1/2

GENERAL FEATURES

- CW functions:
 - [New] CW Morse code Decoder, Decode Threshold Level, Decode Filter, USB Keyboard Encode
 - Break-in (Full / Semi), CW Pitch Control, CW tune, CW Side Tone, Electronic Keyer with 8-ch Message memory
 - [NEW] CW BFO Side Band select
- FSK / PSK(BPSK 31/ 63, QPSK 31) functions:
 - Decode / Encode, Message with USB key board
- FM functions:
 - Wide / Narrow, Sub-tone / CTCSS / Cross-tone (for repeater system)
- RX functions:
 - ATT(0-6-12-18dB), Pre Amp 1/2, RF Gain / AF Gain / SQL Level /

AGC function, RX Equalizer

- TX functions:
 - Built-in Antenna Tuner, IF Speech Processor, Power / Mic Gain / CAR Level Control, VOX, TX monitor, TX Equalizer, Independent Lo-cut / Hi-cut Filter
- Memory:
 - Memory(120CH), Quick Memory (Selectable 3/5/10CHs), Direct Entering CH Number, Memory Shift, Memory CH Lock-out (for Scan), Memory Name
- SCAN:
 - Memory scan, Group scan, Programmable scan, Slow scan, Busy stop, Quick memory CH scan etc.
- Others:
 - Two "M" (SQ239) type ANT connectors
 - [IMP] Touch Tuning and other touch function of TFT color LCD
 - Fine Tuning Mode, MHz Step, F.Lock, Tuning Control Lock
 - Band Direct
 - Two USB-A port on the Front and Rear for Key board and USB memory.
 - USB-B port on the Rear for PC Control and sound interface
 - BNC Connector for External Reference Input (10MHz)
 - DVI terminal for external Display
 - Dimmer Function (TFT Display, LED indicators)
 - Programmable Function Key
 - Built-in Voice Functions (NOT requires optional VGS-1)
 - Voice Message memory 6 CHs built-in
 - Recording functions (Constant Recording / Normal Recording)
 - KENWOOD SKY COMMAND SYSTEM II (through TM-D710/G or TH-D72A)
 - Packet Cluster Tune (through TM-D710/G or TH-D72A)
 - Cross-band repeater function (through TM-D710/G or TM-V71)
 - Power-on Message
 - Firmware Upgradable
- Dimension & Weight:
 - W396.0 x H141.3 x D340.0 mm
 - (W15.6 x H5.6 x D13.4 in)
 - Weight: 17 kg (37.5 lb)

OPTION:

- SP-890 EXTERNAL SPEAKER
 - D:77mm Full-range speaker unit
 - Honeycomb baffle front panel
 - HIGH CUT(1kHz)/LOW CUT(400Hz) Filter w/ Front SW
 - 2-input(D:3.5mm Jack) Rear & Front SW
 - D:6.3mm (1/4in) Phone Jack
 - Rated Input Power: 5W
 - Max Input Power: 10W
 - Imp.: 8ohms
 - Size: W171.3 x H141.3 x D300.0 mm
 - (w/projections W171.3 x H158.3 x D303.4 mm)
 - Inch: W6.74 x H5.56 x D11.81 in
 - (w/projections W6.74 x H6.23 x D11.94 in)
 - Weight: Approx.2.4kg(5.29lb)
- YG-82CN-1 270Hz CW FILTER
 - CW and wanted narrow band filter to eliminate un-wanted signal
 - Plug & play installation
 - Freq.(fo): 8.248MHz
 - Imp: 50ohms
 - Operation temperature range: -20 - +70 °C (-4 - 150 °F)
 - Bandwidth @6dB: More than BW 270Hz
 - Bandwidth @60dB: Within BW 800Hz
 - Attenuation: More than 70dB at fo \pm 48kHz
 - Size: W62.0 x H23.0 x D16.5mm
 - Inch:W2.44 x H0.91 x D0.65in
 - Weight: Approx.18g(0.63oz)
- ARCP-890 (Amateur Radio Control Program)
- ARHP-890 (Radio Host Program)
 - ARCP / ARHP-890 - Freeware downloadable from JVCKENWOOD WEB site / OS: Windows Win7, 8.1, 10 (32/64-bit)
 - [NEW] IP Remote Control as TS-990 series, and addition to Direct mode without ARHP

Applicable Accessories

NEW OP ACC.

MODEL	NOTE
SP-890	EXTERNAL SPEAKER
YG-82CN-1	270HZ CW FILTER
ARCP-890	RADIO CONTROL PROGRAM (Freeware)
ARHP-890	RADIO HOST PROGRAM (Freeware)

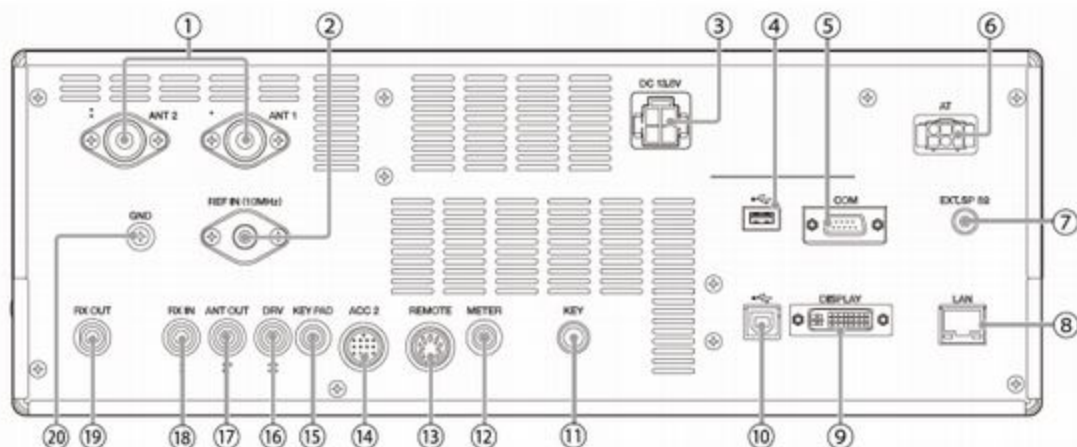
CURRENT OP ACC

MODEL	NOTE
HS-5/6	HEADPHONE
MC-43/47	HAND MICROPHONE
MC-60S8/60A	DESKTOP MICROPHONE

MODEL	NOTE
MC-90	DESKTOP MICROPHONE
PS-60	DC POWER SUPPLY
SP-23	EXTERNAL SPEAKER
SP-990	EXTERNAL SPEAKER
ARUA-10*	USB AUDIO CONTROLLER
ARVP-10*	KENWOOD VOIP PROGRAM
TL-922**	LINEAR AMPLIFIER
TL-933**	LINEAR AMPLIFIER
KAT-1**	AUTOMATIC ANTENNA TUNER

*Update **Operation Confirmation Only

FRONT PANEL	REAR PANEL
<MIC> Metal 8-pin	⑦ <EXT.SP> ϕ 3.5 mm
<PHONES> ϕ 6.3 mm	⑧ <LAN> RJ45
<PADDLE> ϕ 6.3 mm	⑨ <DISPLAY> DVI-I
<USB-A> x 1	⑩ <USB-B> x 1
	⑪ <KEY> ϕ 6.3 mm
	⑫ <METER> ϕ 3.5 mm
	⑬ <REMOTE> DIN 7-pin
	⑭ <ACC2> DIN 13-pin
	⑮ <KEYPAD> ϕ 3.5 mm
	⑯ <DRV> RCA
	⑰ <ANT OUT> RCA
	⑱ <RX IN> RCA
	⑲ <RX OUT> RCA
	⑳ <GND> SCREW Type



NEW OPTIONAL ACCESSORIES

SP-890 [W] EXTERNAL SPEAKER



KEY FEATURES:

- D:77mm Full-range speaker unit
- Honeycomb baffle front panel
- HIGH CUT(1kHz)/LOW CUT(400Hz) Filter w/ Front SW
- 2-input (D:3.5mm Jack) Rear & Front SW
- D:6.3mm (1/4in) Phone Jack
- Rated Input Power: 5W
- Max Input Power: 10W
- Imp.: 8ohms
- Dimensions:
 - ✧ W171.3 x H141.3 x D300.0 mm (w/projections: W171.3 x H158.3 x D303.4 mm)
 - ✧ Inch: W6.74 x H5.56 x D11.81 in (w/projections W6.74 x H6.23 x D11.94 in)
- Weight: Approx.2.4kg(5.29lb)

MODEL	TYPE	FREQ. / PWR	MP	LAUNCH	SUPPLIED ITEMS
SP-890	W	EXTERNAL SPEAKER	Aug. 2018	Sep. 2018	- SP connection Cable (D: 3.5mm plug both side) - I/M (English, Spanish, French, German, Dutch, Italy & Japan)

YG-82CN-1 [W] 270Hz CW FILTER



KEY FEATURES:

- CW and wanted narrow band filter to eliminate un-wanted signal
- Plug & play installation (No soldering Required)
- Freq.(fo): 8.248MHz
- Imp: 50ohms
- Operation temperature range: -20 - +70 °C (-4 - 150 °F)
- Bandwidth @6dB: More than BW 270Hz
- Bandwidth @60dB: Within BW 800Hz
- Attenuation: More than 70dB at fo±48kHz
- Dimensions:
 - ✧ W62.0 x H23.0 x D16.5mm
 - ✧ Inch:W2.44 x H0.91 x D0.65in
- Weight: Approx.18g(0.63oz)

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YG-82CN-1	W	270Hz CW FILTER	Aug. 2018	Sep. 2018	---