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## HF / All

### TS-590S

HF/6m Base Station



#### Caratteristiche Principali

- HF/50MHz All Mode Base Transceiver
- 6kHz, 2.7kHz and 500Hz Roofing Filters
- 32-bit Floating Point DSP
- Built-In Auto ATU (also covers 5MHz band)
- Built-In USB and Serial COM Ports
- 1st-IF Down Conversion (1.8 - 21MHz WARC bands)
- Built-In CW Keyer with selectable Mode A/B Keying
- Two-Colour LCD Display (Amber or Green)
- Low-level TX "DRV" terminal for 135.7 - 137.8 kHz output
- Sky Command II function with Kenwood TH-D72E (new model coming soon)

#### Specifiche HF - AMR

5 W di uscita minima per funzionamento QRP	Si
Max. Potenza di uscita RF - 50 MHz	100 W SSB/FM/CW/FSK, 25 W AM
Impedenza di Antenna - 50 Ohm	Si
Antenna Tunable Range (160 - 6 m Bands) - 16.7 Ohm to 150 Ohm	Si
Audio Output Impedance - 8 Ohm	Si
Potenza Audio di Uscita	More than 1,5 W (8 Ohm, 10% distorsione)
Continuous RX: 130 kHz - 60 MHz	Si
Corrente assorbita (circa)	TX - 20.5 Amps RX (No signal) - 1.5 Amps
Requisiti di alimentazione DC	13,8 V $\pm$ 15%
Unità principale - Dimensioni	W x H x D = 270 x 96 x 291 mm without projections
Tolleranza Frequenza	$\pm$ 5 ppm, -10°C to + 50°C ( $\pm$ 0.5 ppm with optional TCXO)
Potenza di uscita HF	100 W SSB/FM/CW/FSK, 25 W AM
Impedenza Microfonica - 600 Ohm	Si
Modalità	A1A (CW), J3E (SSB), A3E (AM), F3E (FM), F1D (FSK)
Notch Filter Attenuation	Auto Mode - More than 60 dB Manual Mode - More than 70 dB
Temperatura Operativa	-10 °C to + 50 °C
Ricevitore eliminazione Beat	Piu' di 40 dB
Circuito Ricevitore	SSB, CW, AM, FSK - Double Superheterodyne FM - Triple Superheterodyne
Gamma di Frequenza del Ricevitore	0.13 MHz - 60 MHz (VFO from 30 kHz)
Frequenza Intermedia Ricevuta - 1st/2nd/3rd IF	RX1 - 11.374 MHz/24 kHz/ - RX2 - 73.095 MHz/10.695 MHz/24 kHz (except FM)/455 kHz (FM)
Selettività del Ricevitore	SSB - More than 2.2 kHz @ -6 dB/Less than 4.4 kHz @ -60 dB CW/FSK - More than 500Hz @ -6 dB/Less than 1.2 kHz @ -60 dB AM - More than 6 kHz @ -6 dB/Less than 12 kHz @ -50 dB FM - More than 12 kHz @ -6 dB/Less than 25 kHz @ -50 dB
Receiver Sensitivity - 0.13 - 0.522 MHz	SSB/CW/FSK - Less than 0.5 $\mu$ V AM - Less than 6.3 $\mu$ V
Receiver Sensitivity - 0.522 - 1.705 MHz	SSB/CW/FSK - Less than 4 $\mu$ V AM - Less than 31.6 $\mu$ V
Sensibilità Ricevuta - 1.705 - 24.5 MHz	SSB/CW/FSK - Less than 0.2 $\mu$ V AM - Less than 2 $\mu$ V
Sensibilità Ricevuta - 24.5 - 30 MHz	SSB/CW/FSK - Less than 0.13 $\mu$ V AM - Less than 1.3 $\mu$ V
Sensibilità Ricevitore - 28 - 30 MHz (FM)	Less than 0.22 $\mu$ V

Sensibilità Ricevitore - 50 - 54 MHz	SSB/CW/FSK - Less than 0.13 $\mu$ V AM - Less than 1.3 $\mu$ V FM - Less than 0.22 $\mu$ V
Receiver Spurious Response	Image Ratio - More than 70 dB IF Rejection - More than 70 dB
Sensibilità Squelch Ricevitore	SSB/CW/FSK/AM. 0.13 - 0.522 MHz - Less than -92 dBm 5.6 $\mu$ V 0.522 - 1.705 MHz - Less than -82 dBm 18 $\mu$ V 1.705 - 30 MHz - Less than -102 dBm 1.8 $\mu$ V 50 - 54 MHz - Less than -106 dBm 1.1 $\mu$ V FM 28-30 MHz - Less than -121 dBm 0.2 dB $\mu$ V 50-54 MHz - Less than -121 dBm 0.2 dB $\mu$ V
Gamma di Frequenza RIT	$\pm$ 9,999 kHz
Portante Soppressa in Trasmissione	Piu' di 50 dB
Gamma di Frequenza del Trasmettitore	1.8 MHz - 50 MHz, plus 136 kHz low-level output. A dealer expansion adds TX on 5 MHz (where permitted) and 100 - 522 kHz TX
Risposta in Frequenza del Trasmettitore	400 - 2600 Hz (within -6 dB)
Massima Deviazione di Frequenza del Trasmettitore	FM - Less than $\pm$ 5 kHz (Wide) & less than $\pm$ 2.5 kHz (Narrow)
Transmitter Modulation Method	SSB/FM/AM - Balanced/Reactance/Low-power
Radiazioni Spurie del Trasmettitore	HF - Less than -50 dB
Radiazione spurie Trasmettitore - 50 MHz	Meno di - 60 dB
Banda laterale soppressa indesiderata del Trasmettitore	Piu' di 50 dB
Peso	7,4 kg
Gamma di Frequenza XIT	$\pm$ 9,999 kHz

### Caratteristiche Generali Radio Amatori

Antenna Socket	2 x SO-239 for HF/50MHz. 1 x RCA (Receive-only, up to 30MHz).
<a href="#">Attenuatore</a>	Si, On/Off setting stored in memory for each band
<a href="#">Auto ATU - Interno</a>	1,8 MHz a 50 MHz copertura (3:1 .) Range di Impedenza approx.
COM Port	Si, 1 x USB-B 1 x D-Sub 9-pin male
Compatible with External TNC	Si
Connettore per esterni ATU	sì
Connector for Remote/Linear Amp	sì
<a href="#">CTCSS Encoder/Decoder</a>	Si, 42 tone frequencies, plus tone-scan function. "Cross Tone" allows different RX/TX tones.
<a href="#">Filtro Limitatore di Rumore</a>	Si

Frequenza di ingresso diretta	Si
DSP Functions	32bit Floating-Point IF DSP. Lo-cut/Hi-cut, Shift/Width and IF Filter A/B. Auto/Manual Notch (Wide/Narrow). Noise Blanker (Digital/Analogue). Beat Cancel function BC1/BC2. Noise Reduction function NR1/NR2.
Pannello frontale della tastiera	Si
Modalità Reverse FSK	Si
<a href="#">Stabilità ad Alta Frequenza</a>	Si
<a href="#">VOX Interno</a>	Si, Adjustable 10 levels. Delay time adjustable 150 - 3000 ms. Anti-VOX function. Data VOX function on USB and Com ports.
Key Beep	Yes - adjustable + OFF
<a href="#">Blocco tasti</a>	Si
<a href="#">Display LCD retroilluminato di colore Ambra e Verde</a>	Si
Loudspeaker Socket	3.5 mm
<a href="#">Canali di Memoria con Alpha-tagging</a>	120 Canali di Memoria
<a href="#">Menu per Set-Up individuale</a>	Si, Dual menus, A & B, for instant switching between configurations. Plus "Quick Menu" system for individual customization.
Microphone Socket	8-pin "Chrome" type
MR-Shift	Si
<a href="#">Funzioni di scansione multipla</a>	Si
Packet Cluster Tune Function	Si, With TM-D710E, TM-D700E or TH-D72E
<a href="#">Memorie Programmabili su PC</a>	Si
Programma di Controllo Radio PC	Si
<a href="#">Messaggio di benvenuto durante l'accensione</a>	Si
Pre-amplifier	Si, On/Off setting stored in memory for each band
<a href="#">Programmazione Tasti Funzione</a>	Si, 2 Front panel keys. In addition the MC-43 & MC-47 microphones' UP/DWN buttons are programmable - the MC-47 also has 4 dedicated PF keys.
<a href="#">Ricevitore taglia-Alti/Taglia-Bassi pendenza filtri DSP</a>	Si
Ricevitore Rumore soppresso	Si
<a href="#">Funzione del Ricevitore di filtro Notch</a>	Yes - DSP Auto Notch & Manual Notch (Wide/Narrow)
<a href="#">Operazioni remote via Internet</a>	Via ARHP-590 Radio Host Program. Free download from <a href="http://www.kenwoodusa.com">www.kenwoodusa.com</a>
RX Functions	DSP AGC with Selectable Time Constant. RX DSP Equalizer. Attenuator/Pre-Amp. RF Gain, AF Gain, Squelch Level.
Configurazione Squelch Selezionabile	Si

<a href="#">Sky Command 2</a>	Si, In conjunction with a Kenwood TM-D710E, TM-D700E or TH-D72E ("Transporter") plus a TM-D710E, TM-D700E or TH-D72E (Commander").
Speech Processor	Si
<a href="#">T.O.T - Temporizzatore di timeout</a>	Si
<a href="#">Funzioni Transfer-Set (TF-Set)</a>	Si
<a href="#">Funzioni Display del Ricetrasmittitore</a>	TS-590S display shows transverter frequency. Now up to full power available in transverter mode
<a href="#">Doppia ventola di raffreddamento (TS-480HX)</a>	Si
TX Functions	Speech Processor (Adjustable In/Out Levels. Changeable TX Filter Bandwidth. TX Audio Monitor. TX DSP Equalizer. VOX (Adjustable Gain and Delay Time settings). MIC Gain Control. CAR Level Setting. Adjustable Power Output.
Variable LCD Brightness	Si, Ajustable to 4 levels and off
<a href="#">Selezione Deviazione Largo/Stretto</a>	Si

#### Opzioni

<a href="#">Temperature-controlled Crystal Oscillator</a>	Si
<a href="#">Voice Guide &amp; Storage Module</a>	Si

#### COM\_AMA\_CW\_Feat

Built-In Memory Keyer	Si, 4-Channel message memory, approx 50 characters per memory. Auto-repeat function. Interrupt playback to insert text function. Dot-dash reverse function.
<a href="#">CW Autotransmit</a>	Si
<a href="#">CW Autotune</a>	Si
<a href="#">CW Pitch Control</a>	Si, Pitch adjustable 300 Hz - 1000 Hz
CW-Reverse Mode	Si
Full Break-In/Semi Break-In	Si, Semi Break-In delay adjustable 50 ms - 1000 ms
<a href="#">Iambic Modes A and B Built-in</a>	Si
<a href="#">Microphone Paddle Mode</a>	Si
Side Tone Monitor	Si, With 10-step volume control
<a href="#">Terminal for CW paddle key</a>	Si, 6.3mm/1/4" 3-conductor socket
<a href="#">Terminal for straight key/external electronic keyer</a>	Si, 3.5mm/1/8" 2-conductor socket

## Prodotti

### Accessori disponibili

(consultate il vostro rivenditore di zona per conoscere tutti gli accessori disponibili)



HS-5



HS-6



LF-30A



MC-43S



MC-60A



MC-90



SO-3



SP-23



SP-50B



VGS-1