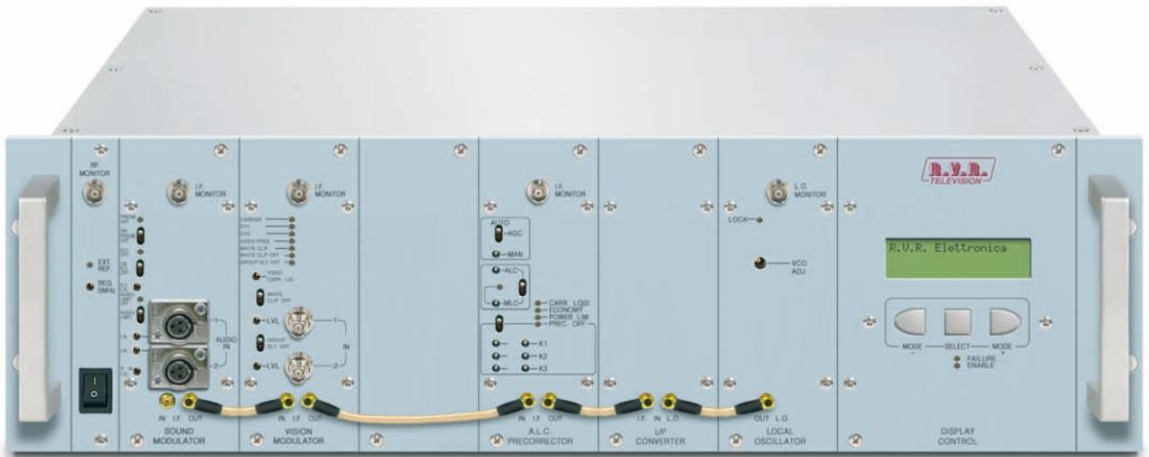


# TV exciters/transmitters

Preliminary version



STU-STV 05 front view

## Features - Caratteristiche

- > Enhanced reliability, uninterrupted performance and high quality.
- > Advanced module design ensures easy accessibility and maintenance.
- > Enhanced accessibility, control and extreme ease of use.
- > Built-in output filter.
- > Transmitter or Repeater configuration.
- > Extremely compact and rugged thanks to the stainless steel chassis in only 3 HE.
- > Elevata continuità operativa, alta efficienza di esercizio ed eccellente qualità.
- > Estrema accessibilità e semplicità di manutenzione grazie ad una avanzata ingegnerizzazione modulare.
- > Grande semplicità d'utilizzo, data dall'accessibilità fornita dai tasti a pressione per l'iterazione fra l'utente e l'apparato.
- > Costruito con filtro d'uscita integrato.
- > Disponibile in configurazione Trasmettitore o Ripetitore.
- > Costruzione modulare estremamente compatta e indeformabile realizzata in chassis di acciaio inox, in sole 3 unità rack.

# TV exciters/transmitters

## Technical specifications

Parameters	Values
<b>GENERALS</b>	
Frequency Range	STV-05 - Bd III (170-230 Mhz) STU-05 - Bd IV & V (470-860 Mhz)
Mains voltage	220 V ac + 10% -15%
Mains frequency	47/63 Hz
Temperature range	0 to +45°C
Relative humidity	95% not condensing
Altitude	up to 2.500 meters
Power consumption	350 W
<b>RF SECTION SPECIFICATIONS</b>	
Output power	5W peak sync
Vision/Sound power ratio	10/1 single sound or 20/1/0.2 dual sound
Standard	All standards
Modulation class	C3F, F3E
Sound transmission	FM single-sound ( IRT or NICAM 728 )
Harmonic and spurious emission	≤ 1 mW
IMD products in band	≤ 60 dB
Frequency stability	± 100 Hz / 1 month ± 1 Hz / month
External reference frequency	5 MHz/10 MHz 0.2 ± 1.0 V / 50 Ω
Offset capability	10/25 Hz steps up to ± 25 kHz
<b>TRANSMISSION CHARACTERISTICS</b>	
Sideband spectrum response	according to the standard
Amplitude-frequency response	according to the standard
Group delay variation	≤ ± 35 ns (without receiver precorrection and sound trap in TV demod.)
Non linearity distortion (mod. 10 to 75%)	≤ 5%
Differential gain (mod. 10 to 75%)	≤ 5%
Differential phase (mod. 10 to 75%)	≤ ± 3 degrees
Incidental carrier phase modulation	± 3 degrees
Signal to hum (peak value) ratio	≥ -48 dB (f < 10 kHz)
Signal to random noise	≥ -56 dB (unweighted 0.2 to 5 MHz)
Blanking level variation	≤ 2%
2T k factor	≤ 2%
ICPM (picture range)	≤ 2 degrees
Intercarrier S/N ratio	≥ 46 dB (referred to ±50 kHz deviation)
<b>VISION</b>	
Video input	2 with aut. Switchover (BNC conn. 75 Ω)
Colour systems	PAL / SECAM / NTSC
Nominal input level	1 Vpp ± 6dB into 75 Ω
Return loss	≤ 34 dB
DC restoration	clamped to the blanking level without affecting the burst
White limiter	at 90% picture signal without affecting the chrominance
<b>SOUND</b>	
Sound input	2 with autom. Switchover (video master)
Nominal input level	0 dBm ± 12dB (± 50kHz dev.)
Input impedance	600 Ω balanced
Pre-emphasis	50 μs (75 μs on request)
<b>METERING</b>	
	Peak sync output power
	Reflected power
	Power supply status
	Temperature
<b>PROTECTION CIRCUIT</b>	
	VSWR
	Overtemperature
	Overcurrent
<b>REMOTE CONTROL</b>	
Parallel interface	Start, Stop, Alarm, Interlock
Serial interface	RS 232
<b>MECHANICAL SPECIFICATIONS</b>	
Dimensions	1325 H (3 U) x 482 (19") W x 500 (23,62") D mm.
Weight	about 17 kg

All pictures are RVR's property and they are only indicative and not binding. The pictures can be modified without notice. These are general specifications. They show typical values and are subject to change without notice.

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