

# ST Series L and S Band Frequency Agile 10 Watt Transmitters

**COBHAM**

The most important thing we build is trust.

The ST Series of 10 Watt transmitters from GMS are compact, full featured microwave transmitters capable of operating in the 1.7 – 1.8 and 2.0 – 2.7 GHz bands. They transmit an NTSC or PAL, compatible video signal and two full bandwidth audio subcarrier signals. The small size and low power consumption of the ST-10 Watt transmitter make it ideal for sports, airborne, and remote broadcasting. For video surveillance encryption is available as an internal option.

All Transmitter functions are controlled by an advanced microprocessor with a user friendly interface. A large LCD displays power output, audio subcarrier input level and frequency of operation. The ST can also be controlled with the GMS hand-held RCU (remote control unit) via a RS-232 interface. All operating parameters are stored in non-volatile memory so they are retained in the event of the loss of power.

RF power output is controllable to suit the application. Audio subcarriers are independently selectable between microphone or line input levels and may be turned off in order to transmit a composite signal, enhancing the flexibility of the ST-10 Watt Series transmitter.



Specifications subject to change without prior notice  
Typical values shown unless min or max is specified  
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## Specifications:

### Video

Input Impedance	75 $\Omega$
Input Level	1 Volt (peak to peak)
Pre-Emphasis	Per CCIR 525/625 line
Frequency Response	10 Hz – 10 MHz
	5.0 MHz NTSC, 5.5 MHz PAL

### Power

Voltage	11 – 15 VDC
Current	3 A Typical

### RF

Frequency Range	1.7 – 2.7 GHz standard
	consult factory for additional frequencies
Frequency Stability	0.005%
Power Output	3 W Low: 10W High typical
Spurious.Harmonic Output	-60 dBc
Modulation Sensitivity	$\pm$ 4 MHz/Volt

### Environment

Temperature Range	-20 <sup>o</sup> to 70 <sup>o</sup> C
Humidity	0 to 100% non-condensing

### Audio

Subcarriers Available (any two)	4.83, 5.6, 5.8, 6.0, 6.2, 6.5, 6.8, 7.02, 7.5, 8.3, 8.5, 8.59 MHz
Input impedance	600 $\Omega$ Balanced
Input level	-50 dBm Mic: 0dBm Line
Frequency Response	10 Hz to 15 KHz

### Mechanical

Size	3.25" x 4.25" x 1.1" 8.25 cm x 10.8 cm x 2.8 cm
Weight	16.4 oz/465 grams
RF Output Connector	SMA
Video input Connector	BNC Female
Audio/Power Connector	PTO2H-12-10P
	Pinout: A: +12VDC B: Ground C/E: Audio 1 D/F: Audio 2 G/H: RS-232  K: Composite Video In