

ST Series Frequency Agile Transmitters

COBHAM

The most important thing we build is trust.

The ST Series Transmitter from GMS is a compact, full featured microwave transmitter capable of operation at 1.7 – 8.25 GHz. The ST Series transmits an NTSC or PAL compatible video signal and two full bandwidth audio subcarrier signals. The small size and low power consumption of the ST transmitter make it ideal for sports, airborne and remote broadcasting.

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 controller 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 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 Series transmitter.



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Specifications:

Video

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

Power

Voltage	11 – 15 VDC
Current	1 A typical L/S Band 1.5 A typical C-Band 1.8 A typical X-Band

RF

Frequency Range	1.7-8.25 GHz standard consult factory for additional frequencies
Frequency Stability	0.005%
Power Output	0.4 W (Low) 3 W typical (High) L,S,C 0.1 W (Low) 1.0 W (High) X
Spurious/Harmonic Output	-60 dBc
Modulation Sensitivity	+/- 4 MHz/Volt

Environment

Temperature Range	-20 ^o to + 70 ^o C
Humidity	0 to 100% non-condensing

Audio

Sub-carriers (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 Ω 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	10 oz./283.5 grams
RF Output Connector	SMA
Video Input Connector	BCN 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