



NTSC Video/Audio Transmitter

Series VT22

Features

- 1.7-1.9, 2.2-2.4, 2.4-2.5 GHz
- 0.25 Watts
- Single Audio/Data Subcarrier
- Fixed or Agile Frequency
- FCC Part 90 Type-Accepted



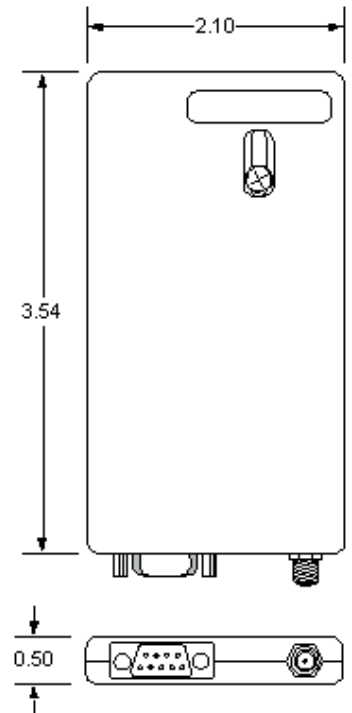
Description

The VT22 series of broadcast quality, 250 mW video/audio Transmitters are designed to transmit black and white or color video signals in the frequency bands covering 1.7-1.9, 2.2-2.4, or 2.4-2.5 GHz. The VT22 design includes a single audio/data sub-carrier.

This transmitter is true FM, modular, all solid state and is protected for operation into any VSWR, without damage, including open or short circuits.

Rugged construction, minimum size and light weight make this transmitter ideally suited for body-worn applications and where operation in harsh conditions is required. Transmitters may be ordered as fixed frequency or any number of channels in a given band, spaced in 0.5 Mhz increments. The VT22 comes with an 100-240 VAC to 12 VDC power converter.

The VT22 video transmitter comes with SEMCO's 2-year warranty on parts and labor.



Systems Engineering &
Management Company
1430 Vantage Court
Vista, CA 92081

For Further Information Call
(800) 995-0636, Ext.1126
FAX (760) 727-5200
www.semco.com

Technology & Innovation For A Safer World

April 2011



Specifications

Series VT22

ELECTRICAL SPECIFICATIONS

Frequency Range	1.7-1.9, 2.2-2.4, or 2.4-2.5 GHz
Frequency Selection	Fixed frequency or Multi-channel
Frequency Stability	+ 0.005%
Output Power	250 mW
Output Impedance	50 ohms (nominal)
Spurious & Harmonic Emissions	< -60 dBc

VIDEO MODULATION SECTION

Type	True FM
Input Impedance	75 ohms nominal
Frequency Response	10 Hz to 4.5 MHz \pm 1.5 dB
Carrier Deviation	+ 4 MHz peak
Deviation Sensitivity	+ 4 MHz/Vp-p, factory set, adjustable
Linearity	+ 2% BSL
Incidental AM	2% maximum
Incidental FM	+10 kHz maximum
Pre-Emphasis	Per CCIR-405
Horizontal Resolution	> 480 lines

SUBCARRIER MODULATION SECTION

Subcarrier Type	Audio/Data
Subcarrier Number	Single
Subcarrier Frequency	5.5-7.8 MHz (6.5 MHz standard)
Frequency Response	Audio: 25 Hz to 12 kHz
Harmonic Distortion	Audio: <2%
Audio Pre-Emphasis	Per CCIR-405
Audio Input	Mic level, 8 mV _{p-p} at 400 Hz
Mic Bias	1.5 VDC
Input Impedance	600 ohms for line level, 4K ohms for mic level
Peak Deviation	\pm 75 kHz
Incidental FM	\pm 5 kHz

ENVIRONMENTAL SPECIFICATIONS

Temperature	-20 to +40 degrees C (operating); -40 to +70 C (storage)
Humidity	95%

POWER REQUIREMENTS

Input Voltage	10-18 VDC
Input Current	0.30 amps @ 250 mW output
Reverse Polarity	> 20 VDC

CONNECTORS

Video, Audio, Power Inputs	15 pin micro D
RF Output	SMA female

MECHANICAL

Size	3.54 x 2.10 x 0.50 inches (3.72 cubic inches)
Weight	3 ounces

Systems Engineering &
Management Company
1430 Vantage Court
Vista, CA 92081

For Further Information Call
(800) 995-0636, Ext.1126
FAX (760) 727-5200
Www.semco.com

Technology & Innovation For A Safer World