

VIDEOWAVE WIRELESS VIDEO TRANSMISSION VTX1394SE & VRX1394SE



GENERAL DESCRIPTION

The VTX1394SE transmitter and VRX1394SE receiver incorporate the standard Videowave 1394MHz wireless video transmission units with mains power supply, housed within a weatherproof IP67 enclosure. A top-plate SMA connector enables connection to the Videowave range of antennas. Bulkhead cable glands are provided to enable entry to video and mains power connections.

- Enables wireless connection of CCTV cameras to monitoring and recording equipment
- Licence exempt operation (compliant with R&TTE directive)
- Compact & lightweight
- Power/video input indication on transmitter
- Power/carrier signal indication on receiver
- IP67 weatherproof enclosures suitable for flat surface or pole mounting
- 12V DC operation (mains PSU's included)
- 500mW power output from Tx
- 1/2 wave whip antenna included
- Optional antennas available for specialist applications and extended range up to 3km.



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Accredited to BS EN ISO 9001:2000

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Applications

Single & Multiple Camera Transmission

As the TX1394SE transmitter and VRX1394SE receiver are single channel units only one such system may be used on a single site. For details of multiple wireless camera configurations please refer to the RDT data sheet for the VTX24xxENC and VRX24xxENC 2400MHz wireless video transmission units. The 2400MHz units may also be used to enable repeat transmission of a video signal to extend range, or to circumnavigate obstructions that may be situated in a direct path between transmitter and receiver.

Multiplexed Video Transmission

Transmission of multiple video camera images between two locations may be achieved by transmission of multiplexed images.

Broadcast Video Transmission

For applications requiring broadcast of the video signal to more than one monitoring/recording

location, multiple VRX1394SE receivers may be used.

Telemetry Options

The VTX1394SE & VRX1394SE units are suitable for the transmission of video only. For systems where wireless telemetry control is also required, this can be achieved with the addition of RDT's RM9600 series radio modems. Alternatively, the VTX1394SED video transmitter and VRX1394SED receiver unit may be used, which include the Videowave Tx or Rx plus the RM9600 radio modem mounted in an IP67 enclosure.

Alarm Options

Single point to point alarm contact signalling is available as an option on the RM9600 radio modem as an addition to the telemetry control capability. For applications requiring multiple alarms, RDT's Versanet2 system may be used.

TECHNICAL SPECIFICATIONS

General

Video input:	1Vp-p into 75ohm BNC
Video output:	1Vp-p into 75ohm BNC
Pre-emphasis	CCIR PAL 405-1
Operating voltage:	10 to 15V DC (mains PSU included)
Protection:	Reverse polarity
Current consumption @ 12V DC:	
VTX	450mA
VRX	250mA
Antenna connector:	50ohm SMA
Power connector to PSU:	Screw terminal
Indicators:	
VTX	Power & TX
VRX	Power & received signal strength

Radio

Frequency:	1394MHz
Frequency stability:	+/- 40kHz
Rf power output:	500mW
Local Oscillator:	PLL synthesized
Modulation type:	FM
Modulation bandwidth:	4.5MHz
Spurious and harmonics:	to MPT1349
Good signal threshold (1st green LED on RSSI):	-90dBm

Mechanical & Environmental

Dimensions:	
Height (excl connections and cable glands):	230mm
Width:	80mm
Depth:	87mm
Weight:	1.15kg
Enclosure:	Polycarbonate IP67 rated
Mounting:	4 x 4mm dia holes at 210mm x 60mm
Operating temperature:	-10 to +55deg C



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