

## Features

- AM video with duplex data (RS-422/485)
- Adjustment-free operation (Automatic Gain Control)
- Easy to install
- Compact stand-alone and rack-mount cards
- Video SNR >60 dBw for short links



## VDS 2200 Video and data modems

### Description

Siqura's VDS 2200 series offers a range of low-cost fiber optic video/data transceivers. Built-in Automatic Gain Control (AGC) allows for plug-and-play installation and maintenance-free operation.

VDS transmitters come in stand-alone housings; the receivers are rack-mountable or stand-alone models (/SA). The VDS system is available in dual multimode versions.

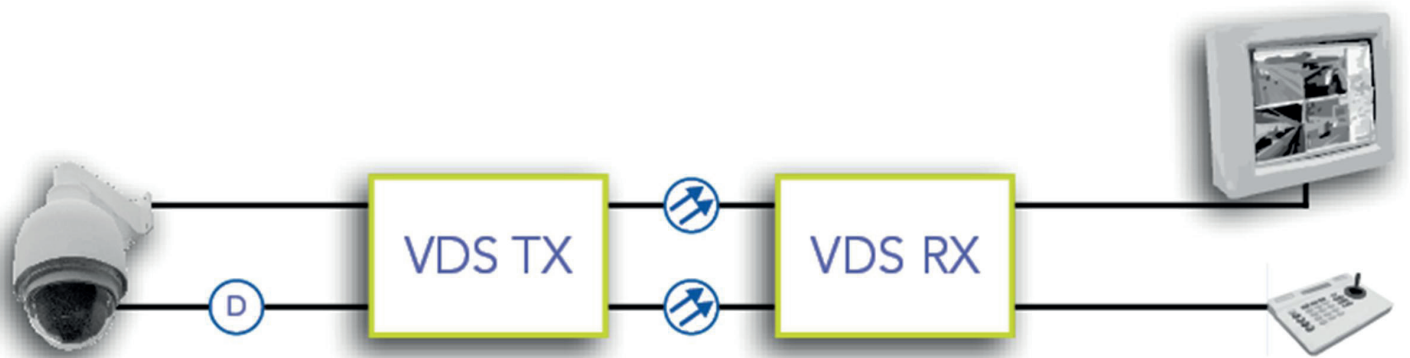
Its bidirectional data interface makes the VDS compatible with all types of cameras (RS-422/485, TTY, Manchester, Bi-phase, etc.).

The very compact VDS 2200 series transmitters are designed to be used over a broad temperature range and are therefore suitable for use close to cameras or even inside outdoor camera housings.

VDS receivers are designed to be slotted into MC 10 or MC 11 power supply cabinets. Stand-alone VDS models are powered by PSA-UN12DC adapters. For extreme environmental conditions, a PSR-12 DC is recommended.

# Technical Specifications

## VDS 2200 Video and data modems



### Video

Video format	1
Input/output level	NTSC, PAL, SECAM
Bandwidth (-3 dB)	1 Vpp ( $\pm 3$ dB)
Differential phase	8 MHz
Differential gain	$< 5^\circ$
SNR	$< 5\%$
Short link	$> 60$ dBw
Over opt. budget	$> 45$ dBw
Connector type	BNC $75\Omega$ (gold-plated center pin)

### Data

Number of channels	1 (full-duplex)
Data interfaces	RS-422/485 (2- or 4-wire)
Interface support	Current loop/TTL/TTY/Manchester/Bi-Phase
Data format	Asynchronous, serial
Data rate per channel	DC to 64 kbit/s
Connector type	2x 3-pin screw terminal

### Management

LED status indicators	
DC	Power-on indicator (green)
CR	Data carrier received (green)
NV	No video signal on input or output (red)

### Powering

Power consumption	$< 1.1$ W
VDS 22xx TX	11 to 22 VDC (PSA-UN12DC with Ferules or PSR-12 DC)
VDS 22xx RX	MC 10 and MC 11 power supply cabinets
VDS 22xx /SA	11 to 16 VDC (PSA-UN12DC with Ferules or PSR-12 DC)

# Technical Specifications

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### Environmental

Operating temperature	-40° C to +74° C (-40° F to +165.2° F)
Storage temperature	-55° C to +85° C (-67° F to +185° F)
Relative humidity	<95% as long as there is no condensation.
MTBF	>100,000h
Safety and EMC	IEC/EN 60950-1, IEC/EN 60825, IEC/EN 61000, EN 50130-4, EN 50081-1, EN 55022, FCC part 15

### Mechanical

VDS 22xx TX	
Dimensions (h x w x d)	33 x 60 x 90 mm (1.3 x 2.36 x 3.54 in.)
Weight (approx.)	140g (4.93 oz.)
VDS 22xx RX	
Dimensions (h x w x d)	35 x 128 x 190 mm (1.38 x 5.04 x 7.48 in.)
Weight (approx.)	450g (15.87 oz.)

### Optical

Optical	VDS 2200 TX/RX
Fiber type	2x MM (62.5)
System link budget	16 dB*
Link length	5 km
Minimum link loss	0 dB
Output power	>-18 dBm
Input sensitivity	<-34 dBm
Output wavelength	850 nm
Connector typ	2x ST

\* For 50/125 µm fiber, subtract 4 dB.

### Ordering information

Models	Description	Fiber Type
VDS 2200 TX	Matchbox video transmitter & data transceiver	2xMM
VDS 2200 RX	Video receiver, data transceiver	2xMM
VDS 22xx /SA	Stand-alone versions of rack-mount models	



The quality management system utilized in the development, production, sales and support of this product is ISO 9001:2008 certified by LRQA.  
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