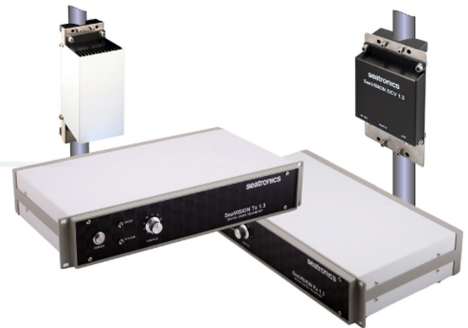


SeaVISION

Seatronics Secure One-Way Digital Link



The equipment provides a reliable, secure one-way digital link for video, audio and data over a range up to 22 kilometres. The type of modulation used (COFDM) and the use of diversity reception make the link very resistant to multipath problems, giving excellent performance in mobile applications and normally difficult locations.

Features

- 1.3 - 1.4Ghz & 2.2 - 2.3Ghz options
- Secure radio link for video, audio & data
- Operates over 22km
- 2 x audio channels
- 1 x user data interface
- Resistant to multipath problems
- Dual diversity reception

Benefits

- Dual diversity reception
- Digital transmission
- Video, data & audio over one link

SeaVISION

Technical Specifications

Video Encoding

Compression standard	MPEG DCT Codec
Line standard	525 and 625 lines
Video input	PAL, NTSC, NTSC no pedestal
Resolution	Horizontal 720 pixels Vertical 576 (625 line) 480 (525 line)
Video bit rate	3Mbps to 15Mbps
Delay (1 TX and 1 RX)	50ms maximum (depending on video bit rate)

Audio

Channels	2 x mono, option for use as data channels
Bit rate	400kbps per channel
Sampling frequency	32kHz adaptive coding
Channel cross talk @ 1kHz	<60dB
Channel phase response for 100Hz to 14kHz	+2%

User Data Interface

Interface	1200 to 38,400 baud RS232 1 start, 8 data and 1 stop bits, no parity
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Modulation System

COFDM modulation type	QPSK or 16QAM
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Encryption

COFDM carrier use	Data scrambled across carriers
Service information	Non-standard, prevents decoding by domestic DVB-T equipment.
Key encryption	Choice of ABS (standard), AES128 or AES256 (extra licence payable).

Tx Rack

Occupied bandwidth	6/7/8MHz (2.5MHz narrowband option)
RF power output	200mW max COFDM signal (adjustable to 10, 50 and 100mW)
Output impedance	50Ω
Enclosure	2U 19" rack mounting
Environmental	Indoor operation, -20°C to +55°C 10% to 90% RH, non-condensing
Dimensions	483mm x 254.5mm x 89mm (2U)
Weight	5.4kg
Power supply	AC Mains, 100 - 240V AC, 50-60Hz, without adjustment
Profiles	10, selected by front-panel knob 1300 to 1400MHz or 2200 to 2300MHz

Power Amplifier

RF output	1W max (COFDM data stream, 100mW drive in)
RF output Impedance	50Ω
RF drive	100mW max
Power supply	Phantom-powered by transmitter via download
Gain	10dB nominal
Enclosure	Mast mounting, requires two off 2.5" U-bolts
Environmental	Outdoor operation: IP67 rated, with sun shield -20°C to +55°C, 10% to 90% RH, non-condensing
Dimensions	352mm x 124mm x 100mm
Weight	1.8kg

Rx Rack

Frequency of operation	49MHz to 861MHz
No of tuners	2
Diversity technique	MRC (maximal ratio combining)
RF Input impedance	75Ω (matches 75Ω output of downconverter)
Enclosure	2U 19" rack mounting
Environmental	Indoor operation, -20°C to +55°C 10% to 90% RH, non-condensing
Dimensions	483mm x 254.5mm x 89mm (2U)
Weight	5.4kg
Power supply	AC mains, 100 - 240V AC, 50-60Hz, without adjustment
Profiles	10, selected by front-panel knob 1300 to 1400MHz or 2200 to 2300 MHz

Downconverter

Frequency of operation	S band (versions for 1.2GHz - 3.6GHz)
No of channels	Single channel; two units required for diversity
Antenna input impedance	50Ω
RF output impedance	75Ω (matches 75Ω input of Rx rack)
Gain	33dB nominal fixed
Power supply	Phantom-powered by receiver via download
Enclosure	Mast mounting, requires two off 2.5" U-bolts
Environmental	Outdoor operation: IP67 rated. -20°C to +55°C, 10% to 90% RH, non-condensing
Dimensions	252mm x 147mm x 64.5mm
Weight	0.7kg

Shipping Weights & Dimensions

TX system	40Kg	67 x 67 x 64cm
RX system	40Kg	67 x 67 x 64cm

Specifications subject to change without notice

seatronics

Worldwide Rental Locations

Aberdeen, United Kingdom
Tel: +44 (0)1224 853100

Great Yarmouth, United Kingdom
Tel: +44 (0)1493 441335

Abu Dhabi, United Arab Emirates
Tel: +971 (2) 673 3435

Houston, United States
Tel: +1 (713) 464 3311

Louisiana, United States
Tel: +1 (337) 365 8335

Singapore, South East Asia
Tel: +65 6545 7155