

## Key Features:

- L Band - 1.35 GHz to 1.45 GHz - 38km Range\*
- S Band - 2.35 GHz to 2.5 GHz - 24km Range\*
- C Band - 5.4 GHz to 5.6 GHz - 11km Range\*
- Secure radio link for simultaneous video, audio & data
- 2 x audio channels
- 1 x user data serial interface
- Resistant to multipath problems
- Dual diversity reception
- NEW - RF test feature
- \*Range dependent on frequency and antennae height

## Key Benefits:

- 128 bit AES encryption can be ordered as an option
- Digital transmission
- Flexible transmit and receive configurations available (multiple Tx to single Rx site)

## SeaVISION II

### 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 38\* 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.



Specifications	
<b>VIDEO ENCODING</b>	
Compression standard	MPEG 2
Video input	PAL, NTSC
Resolution	Horizontal 720 lines, Vertical PAL 576 (625 line) or NTSC 480 (525 line)
Video bit rate	3Mbps to 15Mbps
Delay (1 TX and 1 RX)	50ms maximum (depending on video bit rate)
<b>AUDIO</b>	
Channels	2 x mono
Bit rate	400kbps per channel
Sampling frequency	32kHz adaptive coding
Channel cross talk @ 1kHz	<60dB
Channel phase response for 100Hz to 14kHz	+2%
<b>USER DATA INTERFACE</b>	
Interface	1200 to 38,400 baud RS232 1 start, 8 data and 1 stop bits, no parity
<b>MODULATION SYSTEM</b>	
COFDM modulation type	QPSK or 16QAM
<b>ENCRYPTION</b>	
COFDM carrier use	Data scrambled across carriers
Service information	Non-standard, prevents decoding by domestic DVB-T
Key encryption	Choice of ABS (standard), AES128 or AES256 (extra licence payable)
<b>TX RACK</b>	
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
Environmental	Indoor operation, -20°C to +55°C 10% to 90% RH, non-condensing
Weight	1.0kg
Power supply	AC Mains, 100 - 240V AC, 50-60Hz, without adjustment DC output - 12V 24 Watt
Profiles	10, selected by front-panel button
Dimensions	180mm x 60mm x 120mm
<b>POWER AMPLIFIER</b>	
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 with Jubilee Clip
Environmental	Outdoor operation: IP67 rated, with sun shield -20°C to +55°C, 10% to 90% RH, non-condensing
Dimensions	183mm x 70mm x 60mm
Weight	1.5kg
<b>RX RACK</b>	
No of tuners	2
Diversity technique	MRC (maximal ratio combining)
RF Input impedance	75Ω (matches 75Ω output of downconverter)
Environmental	Indoor operation, -20°C to +55°C 10% to 90% RH, non-condensing
Dimensions	180mm x 60mm x 120mm
Weight	1kg
Power supply	AC mains, 100 - 240V AC, 50-60Hz, without adjustment DC output - 12V 18 Watt
Profiles	10, selected by front-panel button
<b>DOWNCONVERTER</b>	
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 with Jubilee Clip
Environmental	Outdoor operation: IP67 rated -20°C to +55°C, 10% to 90% RH, non-condensing
Dimensions	129mm x 69mm x 52mm
Weight	0.75kg
<b>SHIPPING WEIGHTS &amp; DIMENSIONS</b>	
TX system	25Kg 80cm x 55cm x 30cm
RX system	23Kg 80cm x 55cm x 30cm