

WVC-SD COFDM Digital Video Link



Sharp Sight of the WVC-SD COFDM Video Link

The WVC-SD is a versatile COFDM H264 digital video transmitter. It provides excellent distance and performance through its range of transmission bandwidths, and it has increased spectral efficiency in the 2 MHz and 1 MHz narrow bandwidth modes. This is the narrowest bandwidth available in any comparable product. The use of 4 MHz or 8 MHz modulation at shorter distances gives broadcast-quality image definition.

The WVC-SD is particularly well suited to providing robust wireless video links in mobile and non-line-of-sight urban environments, to a range of over 1 km. Built-in AES128/256-bit encryption ensures security – subject to export controls. Various frequency bands are available within 300 MHz to 6 GHz.

An optional Power Amplifier booster allows the WVC-SD to transmit over 1km in a non-line-of-sight environment – depending on mode and frequency. The WVC-SD is ideal for use in body-worn or mobile applications.

More Flexibility

- Compatible with industry-standard CCTV systems
- Simplified installation process results in faster deployment.
- Up to 60 cameras supported on a standard COFDM signal.
- A wider choice of surveillance locations are available.

Cost Effective

- Expensive fibre links and networks are not necessary

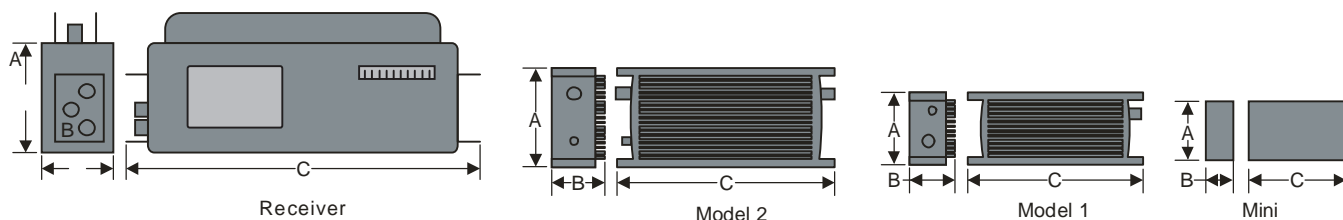
Superior Performance

- Error-correction coding extends range
- Broadcast-quality pictures
- Range of up to 4 km
- Narrow band and ultra narrow band
- Low latency allows for responsive remote joystick control
- Fully encrypted

Applications

- Commercial
- Industrial
- Military
- Police

WVC-SD COFDM Digital Transmitter & Receiver Specifications



Receiver	A 114 mm B 60 mm C 272 mm
Model 2	A 130 mm B 38 mm C 175 mm
Model 1	A 59 mm B 38 mm C 146 mm
Mini	A 55 mm B 23 mm C 87 mm (119 mm inc. antenna)

- Power Connection Lemo w/+& - wires
- Channel Selection Switch – Rotary Hex Switch
- Video Connection - BNC Screened cable
- Audio Connection Lemo w/ 2 RCA
- Optional Equipment 2 W Power Amp – W 157 x D 93 x H 60 mm
5 W Power Amp – W 157 x D 93 x H 60 mm
Stereo Audio

Transmitter – Mini, Model 1 and Model 2

Compression	H264, JPEG2000 and MPEG4
Compression Rate	650 kbs to 6 mbs
Chrominance Profile	4:2:0
Line Standard	NTSC or PAL
Audio (optional)	Stereo Inputs
Output Frequency	
UHF	300 MHz – 400 MHz
L Band	1.15 GHz – 1.4 GHz
S Band	2.28 GHz – 2.485 GHz
C Band	5.725 GHz – 5.850 GHz
(Custom frequency bands are available on request)	
AES Encryption	Compliant with ACPO – 128 / 256
Bandwidth & Resolution	
Standard	8 MHz @ QPSK (720 x 576 – D1)
Narrow	4 MHz @ QPSK (720 x 576 – 4CIF) 2 MHz @ QPSK (464 x 288 – 4CIF)
Ultra Narrow	1 MHz @ 16QAM (464 x 288 – CIF)
Output Power	Model 1 – 100 mW / 200 mW Model 2 – 1 W Mini – up to 100 mW
Modulation Type	1 QPSK or 16 QAM or 64 QAM
FEC	½ or 7/8
COFDM Carriers	2K Carriers
COFDM Standard	DVB-T Proprietary
Weight	Model1 – 390 g Model 2 – 1,550 g Mini – 200 g
Power Supply	Model 1 & Mini – 500 mA @ 12 vDC Model 2 – 1.5A @ 12vDC
Antenna Connection	SMA

Receiver

Sensitivity	-105 dBm
Chrominance Profile	4:2:0
Line Standard	525 and 625
Video Bit Rates	1Mb/sec to 20 Mb/sec
Latency	<100 mS
Video Output	NTSC or PAL
AES Encryption	Compliant with ACPO AES 128 / 256
Input Frequency	
UHF	300 MHz – 400 MHz
L Band	1.15 GHz - 1.4 GHz
S Band	2.28 GHz - 2.485 GHz
C Band	5.725 GHz - 5.850 GHz
Custom frequency bands are available on request.	
Dimensions	W 272 x D 60 x H 114 mm
Weight	1.6 kg
Power Supply	600 mA @ 12 vDC
Antenna Connection	N Type (2 off Diversity)
Power Connection	LEMO 2 Pin
Video Connection	BNC
Audio Connection (Optional)	Stereo outputs
Video Store	Digital view and record system (optional Pelican case receiver)
Antenna Options	Standard Omni Antenna High Gain Omni Antenna High Gain Directional Grids Yagi Antennas Mounting Kits Mobile Antenna Sets
Display	Built-in LCD screen (optional) Strength Meter and Signal Lock LED