

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

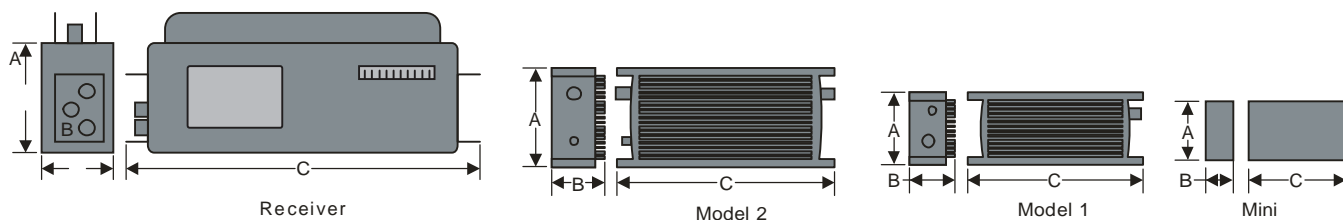
Superior Performance

- 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 Stereo Audio |
| 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 8VDC to 24VDC 3Amps @ 12VDC |

Transmitter – Mini, Model 1 and Model 2

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|---|--|
| 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 – 330 g Model 2 – 650 g Mini – 170 g |
| Power Supply | Model 1 & Mini – 8VDC to 24VDC 500 mA @ 12VDC Model 2 – 8VDC to 24VDC 800mA @ 12VDC |
| Antenna Connection | SMA Mini/Model-1 N-Type Model-2 |

Receiver

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|--|---|
| 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 | 8VDC to 16VDC 600mA @ 12VDC |
| 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 |