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**

### Transmitter – Mini, Model 1 and Model 2

- **Compression**: H264, JPEG2000 and MPEG4
- **Compression Rate**: 650 kbs to 8 mbs
- **Chrominance Profile**: 4:2:0
- **Line Standard**: NTSC or PAL (Custom frequency bands are available on request)
- **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
- **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)
  - **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**: 1/2 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

- **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 w/ 2 RCA Stereo Audio
- **Audio Connection**: Lemo w/ & wires
- **Video Connection**: 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
- **Optional Equipment**: 8VDC to 24VDC 3Amps @ 12VDC
- **Video Store**: Digital view and record system
- **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