

Complete Police Supply Limited

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JPEG 2000 VIDEO COFDM Transmission Coded Orthogonal Frequency Divisional Multiplexing

Our COFDM transmission products are available in the following forms:

- Separately metal boxed Transmitter and Receivers for Covert and Mobile applications
- 2.4 GHz and 5.8 GHz versions in the license free frequencies
- UHF; L, S, & C-Band as well as other user specific versions are available upon request

Transmitter Physical

- Dimensions W 58 mm x D 30 mm x H 150 mm
- Weight 200 grams
- Power Requirement 12Vdc @ 440 mA
- Power Connection Lemo 2 pin OB
- Antenna Connection SMA
- Video Connector BNC
- Stereo Audio Connector Lemo 3 pin OB (optional 2 x 2 pin)

Transmitter Video Encoding

- Compression JPEG2000 or Narrow Band MPEG4
- Compression Rate 25 FPS (PAL) 30 FPS (NTSC)
- Line Standard 525 & 625
- Horizontal Resolution 720 x 575 PAL , 720 x 480 (NTSC)
- Video Bit Rates Between 1 Mb/sec to 20 Mb/sec
- Latency (End to End) 100 ms
- Video Input Format PAL or NTSC

Transmitter Radio Frequency Output

- Output Frequency 2300 - 2600 MHz, or 5.725 - 5.875 GHz
- Bandwidth 8 MHz (JPEG2000) or 2 MHz (MPEG4)
- Channels 16
- Power Output 100 mW (JPEG2000) or 250 mW (MPEG4)
- Modulation Type QPSK
- Guard Intervals 1/8
- COFDM Carriers 2,000
- COFDM Standard Proprietary (4 MHz & 2 MHz)

Please note:

Power Output of the **Narrow Band UHF TX** starts at 500 mW.

In JPEG2000 TX power output may be; 100 mW, 250 mW, 1 Watt, 2 Watt or 5 Watt

JPEG 2000 VIDEO COFDM Transmission

Coded Orthogonal Frequency Divisional Multiplexing

Encryption..

- Optional and programmable 128 Bit AES

Receiver Diversity (2 way)

- Sensitivity to-105dBm

Receiver Video Decoding

- Chrominance Profile 4:2:0
- Line Standard 525 & 625
- Horizontal Resolution 704 pixels
- Vertical Resolution 576 (625 line) and 480 (525 line)
- Video Bit Rates Between 1 Mb/sec to 20 Mb/sec
- Latency Less than 100 ms
- Video Output PAL or NTSC

Receiver COFDM RF Input

- Input Frequency 2300 - 2600 MHz (Basic System)

Desk Top Receiver - Physical

- Physical W 255 mm x D 60 mm x H 90 mm
- Weight 1 Kgs
- Power Requirement 12V DC @ 600mA
- Antenna connection N Type 4 (2 off, Diversity)
- Power connection LEMO 2 Pin
- Video Connector BNC
- Audio Connectors RCA

CPSL can provide variants of the COFDM transmission to meet your specific requirements please contact us for more details. This includes covert “Body Worn” systems, as well as fully packaged Receiver Systems that include digital video and audio recording and high resolution LCD monitor.

Long range, high power systems available, up to 5 Watt.

In the interest of continually improving product performance CPSL reserves the right to change the above specifications without notice.