

The new Digital Microvision range of COFDM (Coded Orthogonal Frequency Division Multiplexing) Transceiver and Receiver modules incorporate forward error-correction coding to make wireless transmissions immune to the effects of multipath interference and enable broadcast quality pictures to be received.

They provide processing gains of around 10db compared with analogue signals to extend the range of wireless installations to around 4 km – a fourfold increase over analogue and Wi-Fi. The installation process is also simplified, as line of sight is no longer an issue enabling cameras to be deployed faster with greater flexibility in terms of possible locations.

The Digital Microvision range will deliver significant cost savings as an alternative to traditional fixed systems that use fibre links to relay video back to the control rooms. The Microvision COFDM modules give a very low latency to deliver the same quality of real-time video as fibre links. This makes it easy to control cameras particularly when trying to follow specific events with a joystick.

Available in 1.3, 2.4 and 5.8 GHz versions, the Digital Microvision range is compatible with MEL's complete range of rapid deployment CCTV systems.

COFDM Transceiver

This option comprises a COFDM video and UHF Telemetry Tx/Rx built into an IP65 housing. The Telemetry is multi-protocol using industry standard RS485/RS422/RS232 and 20mA loop.

COFDM Receiver

Receivers can be specified with an IP65 housing or 19" rack-mounted with 2 RX or 4 Rx options for installation in control rooms. They can be used in conjunction with a video combiner/splitter and antenna array.



Key features

- High quality digital video
- Non line of sight transmission
- Robust, noise-free transmission
- Greater transmission distances
- Encrypted, secure transmission
- Stereo audio channels
- Multiple cameras within a single frequency
- Real-time, low latency transmission
- Low power consumption
- PAL and NTSC options

Transmission power	100mW / 1W / 5W
Frequency	1.394 GHz / 2.4 GHz / 5.8 GHz ('L' / 'S' / 'C')
Channels	4 / 32 / up to 99
Telemetry control frequency	458 MHz / 433 MHz / 868 MHz / customized
Receiver sensitivity	-100 dBm
COFDM	2k carrier, QPSK
Compression/bandwidth	MPEG4 PART 10, H.264 (1MHz / 2MHz B/W), MPEG4 – (2MHz / 4MHz B/W), JPEG2000 (8MHz B/W)
Resolution	4CIF (25FPS PAL) / D1 (30FPS NTSC)
Latency	Approx. 100ms
Power consumption	12v @ 420mA
Transmitter dimensions	310 mm x 200 mm x 100 mm
Weight	2 Kg
Receiver dimensions	310 mm x 200 mm x 100 mm
Weight	2 Kg