

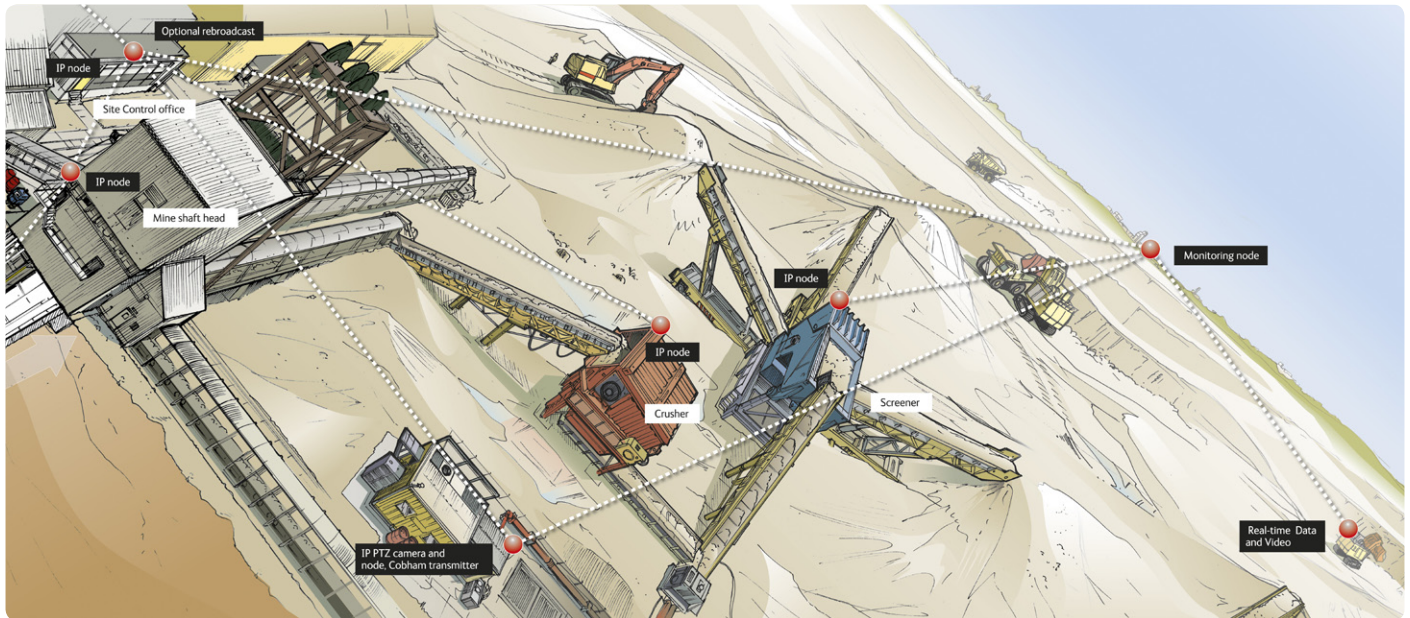
Mine Asset Protection

COFDM - Video, Audio Telemetry and IP Products

COBHAM

December 2009 Data Sheet

The most important thing we build is trust



Cobham Surveillance's Mine Asset Protection system provides a robust, secure wireless surveillance and security network for mining operations.

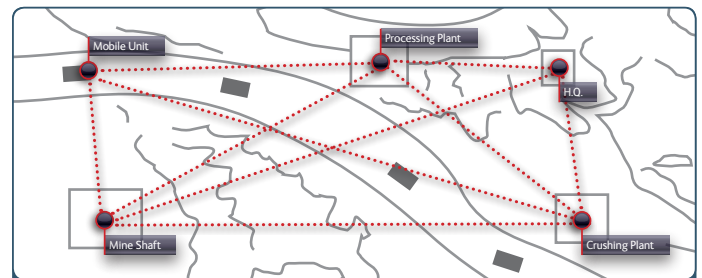
The unique capabilities of Cobham's wireless COFDM technology in non-line of sight environments, enables mining companies to extend their existing surveillance infrastructure to include such locations as crushing, milling and screening centres above and below ground. The progression from analogue to digital microwave transmission offers several key benefits to users:

Better Performance

Using digital modulation and compression techniques, digital microwave provides superior performance in non-line of sight and high multipath applications. Overtly or covertly placed cameras and sensors can transmit dramatically clearer video to remote receive stations. Unlike analogue, digital video picture quality is noise-free regardless of distance.

Efficient Usage of Costly and Sought-After Spectrum

Digital video systems operate in a fraction of the spectrum used by typical analogue channels. Up to 8 digital video streams fit in the spectrum previously occupied by a single analogue channel. Cobham SOLO4 products support 1.25MHz or 2.5MHz channels in the narrowband configuration or 6-8MHz channels in the fully DVB-T compliant configuration, compared with 25MHz for a typical analogue channel. As regulatory agencies worldwide re-allocate spectrum, digital transmission enables more operators to co-locate channels in an increasingly crowded and expensive RF market.



An IP Mesh network sends data between fixed and mobile nodes.

COFDM IP Mesh

COFDM IP Mesh radios are the latest innovations in the expanding range of Cobham Surveillance solutions. Up to 8 Mesh radios can be combined to form an IP mesh network; Cobham's first fluid, self-forming, self-healing mesh. Offering genuine non-line of sight coverage, the system is truly mobile and provides extended range, delivering in environments too tough for other radio solutions to cope with.

Unlike other wireless options, Cobham IP Mesh networks constantly readjust as nodes move, working out which are in range and identifying the best route to send data between them. When one node can no longer operate, the rest of the nodes still communicate with each other directly or through one or more intermediate nodes. Data is exchanged between moving nodes, either point to point or point to multipoint. Range can be extended by using nodes as repeaters.

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SOLO4 MicroVue Receiver



SOLO4 Body Wire Transmitter



SOLO4 Telemetry Transmitter

COFDM Video

Cobham Surveillance has a family of SOLO4 COFDM transmitters and receivers. These products support narrowband (1.25MHz and 2.5MHz) and fully DVB-T compliant (6, 7, or 8MHz) channelisation. The SOLO4 range has been specifically developed for customers in the law enforcement, security and military markets.

Digital technology has made rapid advances in key areas over the past few years; notably the size, weight, power consumption and cost have dropped by about 30% per year. Cobham can now offer digital systems that represent excellent value for money, with superior capabilities to analogue systems. The SOLO4 range is ideal for establishing rugged wireless video, audio and data links in all environments, including underground mine shaft and urban environments.

Able to transmit images in a non-line of sight environment up to 2km, depending on mode and frequency, the SOLO4 range can achieve additional range with the clip-on booster PA.

COFDM Telemetry

SOLO4 Audio and Telemetry links can be configured into different user selectable bandwidths, to satisfy a variety of requirements. Bandwidths from 25KHz to 125KHz are available, offering capacity from 14 to 146kb/s. This capacity can be shared between audio and telemetry data, in any combination. Wider bandwidths are available on request.

SOLO4 Audio and Telemetry transmitters and receivers employ a unique, narrowband COFDM modulation capable of transmitting non-line of sight up to 5km, depending on mode and frequency.

SOLO4 Audio and Telemetry systems are typically employed to provide lift shaft communications, telemetry data transmission from mining machinery and environmental monitoring.

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