

Ogier Electronics

Microwave Transmission for CCTV Systems

The use of Single Channel and Multichannel microwave equipment enables the transmission requirements of complete CCTV systems to be met simply and economically, with the flexibility for growth not available using other technologies.

Applications

The application of microwave transmission systems include CCTV schemes for Local Authorities and distributed commercial sites.

The systems are particularly applicable to link outlying areas such as hospitals, villages and industrial estates into existing CCTV schemes. Concierge systems are also important, especially when communications are required between different areas.

Many systems have been installed using only microwave transmission. In others, microwave has been used to provide extensions to existing fibre based systems.

Easy to install

Minimum disruption

In-built growth potential

Low environmental impact

Easily moved to meet new requirements

Low maintenance costs

Extendable to out of town areas

Accepts rapid deployment cameras

Benefits

The major benefits of microwave transmission for CCTV are the ease of installation together with the flexibility to grow and accommodate changes.

There are no underground cabling requirements or street cabinets and therefore no uncertainties in the cost of the installation. There is no disruption, other than that caused by the need to install the cameras themselves.

Installation is simple and straightforward and can frequently be completed in a matter of days.

Equally important, the system has the in-built flexibility to accommodate growth or changes, both in the camera and control room locations.

It has the capability to integrate out of town systems into existing schemes at minimum cost. Also uniquely, microwave has the ability to provide the transmission from temporary cameras to cover short term surveillance requirements.



Features

The SL and ML Series of high technology microwave transmission equipment provides evidential video quality which exceeds the highest levels demanded in CCTV. The quality is equal to the best outside broadcast systems.

Microwave links require line of sight. Often it is not possible in an urban environment to transmit directly from the cameras to the control room. The use of local collecting points overcomes this. Single Channel equipment at the cameras transmit to a collecting point with Multichannels then transmitting all the videos from there to the Control Room as shown in the photograph below.

The major benefit of the collecting point concept is that it allows other cameras to be brought on-stream progressively and without any change to the trunk links except for the addition of plug-in modules.



Capacity

The capacity of each system is 19 channels in one band and 19 in the other. The performance of the equipment is such that all the frequencies can be re-used every 15 degrees.

In practice therefore the capacity of the microwave transmission system is virtually limitless.

Options

Increasingly there is a need to install temporary cameras to resolve short term problems or to cover special events. Such cameras can link into permanent systems at the collecting points using transportable microwave equipment.

Help alarms to provide assistance to members of the public, and other audio or video facilities, including video conferencing and general information services can also be added to the transmission systems. This can be either as part of the initial installation or as a retrofit.

No other transmission system offers the same quality, flexibility and growth options as microwave.



Ogier Electronics equipment is CE approved and is a supplier to major security and telecoms companies, local authorities, police, military and railway network operators world wide

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