



Bradford System Design Overview



COE Ltd was involved in the original concept for the Keighley, Bingley and Shipley CCTV schemes. Due to the severe limit in communications infrastructure between the three urban centres, a solution requiring only one fibre core between each centre was chosen. This fibre was leased on an annual basis. The video and data telemetry transmission between the three centres was realised with COE V-class and C-class multi-channel transmission systems. Each of the video images is transmitted back to the local control rooms utilising COE Ltd Series 200 multimode video and data transmission equipment. The use of COE Telecommand complemented the transmission solution through its unique video networking capabilities which allowed the managed use of trunk video channels between the three centres on an 'as required' basis. This kept costs to a minimum whilst maximising video availability for the operators at each remote site.

Since the original installations in the early 90s the system has been expanded to incorporate Bradford city centre CCTV cameras and UTC control system. This has brought the total camera count to well over 250, all managed from the central control room. Camera and telemetry control signals are still transmitted over the one leased singlemode fibre with network control from Bradford. The transmission distance from Keighley to Bradford is over 20km and the high video specification of the transmission equipment has meant virtually no degradation to the video images from the remote locations.

The system supports fixed, conventional PTZ and multi-functional dome cameras, each being used in specific locations and scenarios to meet the surveillance needs. Privacy issues may be addressed with COE's unique Dynamic Privacy Zoning unit; this is being implemented for certain private housing locations.

At the control centre the COE Telecommand system integrates the recording, control and image management functions - presenting the Operator with one multi-functional seamless control keyboard. Operators are managed within the system through the use of unique PIN numbers. Further control functionality is provided through the third party Graphical User Interface where Telecommand has been seamlessly integrated; supplying video, data and control functionality via the built-in protocol between the two platforms.

The fact that the original system has been expanded changed and augmented whilst still delivering a flexible CCTV control solution demonstrates the power within the design concept and the commitment of COE to the client. This flexibility has been demonstrated recently through the introduction of digital video technology which enables digital images to be sent over LAN and WAN networks thus dramatically reducing infrastructure needs and expanding the reach of the system.

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