

RAILWAY STATIONS

17

CCTV CAMERAS

4,180

DIGITAL VIDEO

RECORDERS

424

HARD DISK DRIVES

678,400 GB

CCTV EQUIPMENT

ROOMS (CER)

19

GUI POINTS

31

CCTV CABLING

OVER 1,053 KM

SECURITY AND RAIL INDUSTRY STANDARDS

GIRT7015 Automatic

Ticket Gates at Stations

GIRT7016 Interface

between Station Platforms,

Track and Trains

NR/L2/TEL/30115

Specification for the

Maintenance of CCTV

Video Recorders

NR/L2/TEL/30136 Testing

Requirements – Security

CCTV

NR/L2/TEL/30111

Specification for the

Maintenance of CCTV

Monitoring Equipment

NR/L2/TEL/3015 Technical

Requirements for Security

CCTV Systems on NR

Infrastructure

NR/L2/TEL/30110

Specification for the

Maintenance of CCTV

Cameras

HOSDB Home Office

Science and Development

“Around 650 Million People travel
in and out of London stations every year”



Railway CCTV Security Systems Overview

Network Rail and many Train Operating companies have employed a vast CCTV system within the railway industry as a means of protecting the safety and security of the public and staff and as a tool to assist in the general management of their stations and train operations.

The terrorist attacks in London in July 2005 further highlighted the need and priority to ensure CCTV across station networks are maintained to a high standard.

CCTV systems on railway station environments are deployed for a variety of purposes and include

- To deter and prevent crime/terrorist activity
- To detect crime/terrorist activity
- To assist the emergency services
- To investigate crime/terrorist activity
- To investigate accidents and incidents
- To support prosecutions
- To reassure and give confidence to the public and staff
- To meet statutory requirements, including those for subsurface stations

For operational purposes including: Monitoring and management of passenger flows, crowd control

Aiding decisions on train movements particularly following disruption Including contingency management following terrorist activity

It was also noted that differences of priority between different stations and also between different locations within the same station and hence some flexibility of approach was appropriate.

For example, cameras covering entrances and exits for counter terrorism purposes were considered higher priority.

In addition Secure Stations Accreditation and TRANSEC mandate requirements for stations classified by them as Group A or B, this in turn directs response times for call outs, faults and ongoing needs to maintaining pertinent views & recordings.



Maintenance Requirements

24hr - 365 Days /Year Maintenance & Response Service

Regular / Planned Preventative maintenance of all aspects of the system e.g. maintained system schematic, camera focus, cleaning of lenses and housings, checking of recordings, date and time accuracy etc.

Maintain recordings for 31 days to support counterterrorist measures.

Maintain constant playback of recorded images from any station based system on the playback facilities of BTP.

Maintain remote viewing, recording and live images at the facilities of BTP, local control and the appropriate ICCs , MICCs, NOC for operational purposes.

Ensure new installations brought under our asset management and within our maintenance are fit for purpose and allow an interface with other pertinent systems, e.g. links between Network Rail systems and those belonging to TfL, TOCs BTP and local authorities etc.

Maintain the off-site back-up recording facility and achieve digital recording for 31 days (minimum 1 picture/sec/camera).

Maintain the minimum recording rate, 1 picture/sec/ camera, while the ideal rate is 12.5 picture/sec/camera.

Maintain the recording system performance and storage capacity with the highest quality images using least compression, combined with high picture update rates.

Maintenance regime to ensure maximum lifetime of equipment, effective image recording and continued system control

Maintain and update where necessary system schematics and drawings detailing camera locations and their respective fields of view. Maintain a library of soft and hard copies of the fields of views for reference, including possible police scrutiny and for maintenance purposes.

NETWORK RAIL RAILWAY CCTV MAINTENANCE

Cannon Street

Charing Cross

Gatwick Airport

Euston

Fenchurch Street

King's Cross

Liverpool Street

London Bridge

Paddington

St Pancras International

Victoria

Waterloo

Blackfriars

City Thameslink

Waterloo East

Marylebone

