

The logo for LB Foster, with 'LB' in red and 'Foster' in black, followed by a registered trademark symbol. The background of the top right corner is yellow and blue diagonal stripes.

LB Foster[®]

CUSTOMER

London Underground
Limited

SECTOR

Rail



Depot Security & Communications Upgrade

CCTV, Intruder and
Perimeter Detection
Systems



Camera Model:	Camera 16
Camera Location:	16
Device:	AutoDome (2000-4)
IP Address:	10.255.128.26
Serial Number:	7
Manufacturer Model:	OpenRoad
Manufacturer Code:	00-000004
Manufacturer Type:	12 2M 03
Camera Resolution:	Camera Resolution
Storage Class:	OK
Recording Device:	0004 10.241.128.104
Manufacturer:	Kingston (V320 or V300)
Video Lens:	Video Signal OK
Video Signal Type (Signal):	Video Signal OK
Video Signal Type (Clock):	Video Signal OK
Video Signal Type (Reset):	Video Signal OK
Manufacturer Storage Class:	Registered

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LUL Depot Security & Communications Upgrade

Fifteen of London Underground Limited’s rail depots and sidings have undergone a major programme of capital investment to improve safety for staff and increase security of assets. Improvements are the result of a number of incidents involving intruders that have compromised site and individual safety. These have included attacks on staff, as well as theft and attempted theft of materials.

“The team at L.B. Foster Telecoms designed, installed and commissioned a sophisticated new security solution. They clearly understood the scope of the project and, most importantly, delivered the project right first time and to budget. A job very well done.”

John Hinds - Project Engineer, London Underground Limited



Requirement

L.B. Foster Telecoms was contracted by London Underground Limited to install new, advanced integrated security systems at each of the depots/sidings. The security solution comprised CCTV, digital recording, intruder/perimeter detection and front-end Graphical User Interface (GUI) controls.

Design, installation, commissioning, testing and handover was managed by L.B. Foster Telecom's specialist security team at:

- > Ruislip
- > Uxbridge
- > Rickmansworth
- > Neasden
- > Upminster
- > Barking
- > Ealing Common
- > Stonebridge Park
- > Queens Park
- > Hammersmith
- > Edgware Road
- > Hainault
- > Woodford
- > Loughton
- > West Ruislip.

Specification

- > New resilient IP GB fibre ring armoured Low Smoke Zero Halogen (LSZH) and copper-based systems at each location
- > Modern energy efficient cameras in strategic CCTV positions using new or existing civils infrastructure and new or existing electrical infrastructure
- > Connectivity between sites through multiple stations and location (c15km) via our own proprietary new fibre installation
- > Utilisation of in-house resources including Telecoms Designer, Electrical Designer and Civils Designer focused on delivering the project and hitting target dates within costs agreed at tender stage.
- > Bosch Analytics CCTV system with local recording and viewing facility
- > Axxon soft front end system with Bosch analytics full integration and a sound alarm detection once an intruder is detected.
- > Implementation and handover of an IP Perimeter Intruder Detection IVA CCTV system to meet London Underground operational requirements
- > Installation of all low voltage electrical cables
- > Installation on various CRMS systems

Our Solution

Working closely with London Underground Limited, we designed and delivered a sophisticated security solution incorporating an innovative, fully integrated Bosch analytics system over Axxon front end platform.

This solution avoided the installation of physical infrared intruder detection systems. Once an intruder is detected on a fixed view camera, a Pan Tilt Zoom (PTZ) camera in a nearby position zooms in on the intruder

position, providing intruder facial identification images. Pan-tilt-zoom (PTZ) is a type of IP camera where the user controls the movement and position of the lens from a remote location using controls on an Internet browser or software application. Panning refers to horizontal movement of the lens where tilting describes vertical movement.

All systems were successfully handed over to London Underground Limited.

What they said

"The security and safety issues that we faced at a number of our depots and sidings presented a real and present danger to our staff and our assets. The team at L.B. Foster Telecoms demonstrated a clear understanding of the brief, as well as offering added value insight and advice. What was delivered was a solution that ticked all the boxes, on time and to budget. "

John Hinds Project Engineer London Underground Limited

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