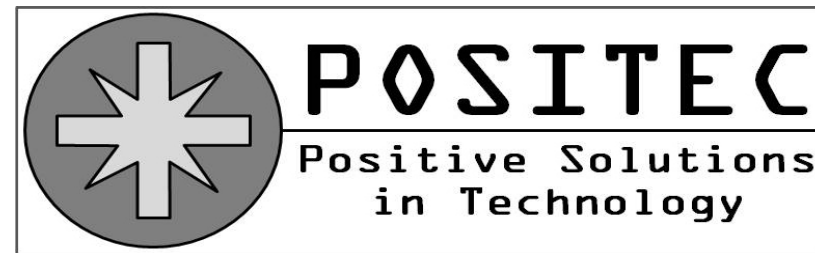


Selkirk Town Ctr – HD CCTV solution



In partnership with



Positec (UK) Ltd – 19/12/22

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Selkirk Town Ctr – HD CCTV solution



Project Scope

- To review the current CCTV solution (5 locations) within the town centre of Selkirk,
- Identify the locations that require coverage based on business needs,
- Produce a solution based on the technical solution already in place at Alloa Town Centre plus numerous other locations,
- Identify where the core equipment (Network Video Recorder – NVR) and other key components will be housed,
- Identify the items that will need to be actioned by the local community,
- Carry out client sponsored survey on 20th Dec 2019.
- Site review on 25th November 2021
- Pricing review 19th December 2022 based on planning permission design.

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During the survey on the 20th Dec 2019 the following was identified as the business requirements, then updated on 25th Nov. '21.....

- 1 CCTV locations, BLUE important
- W Revised location for NVR & Internet connection – D Anderson Office

↔ Very high speed radio links

↔ High speed radio link (dotted only if access needed at Police station)



HD CCTV & Networking Solutions

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19/12/2022

Project Selkirk Community CCTV solution

No	Number	Location	Description	Diver		PI2	Budget	Risk	Fallback
				Many	Switch				
Core	W	David Anderson Office	NVR to be located there	1	1				
1	1	Mungo Park	Using existing pole, radio to Loc2	1	1		1	1	
2	2	Bottom Tower St	High speed link to Loc1	1	1	1	1	1	
3	3	Market Place pole	LOS feed from Loc2	1	1	1	1	1	
4	4	Above level	LOS feed from Loc3	1	1		1	1	
5	5	Top Tower St	Primary radio link to VNI, plus to bottom tower St	1	1		1	1	
6	6	Post Office	Needed for LOS link to Loc2	1	1			1	
7	7	ScotNet	For LOS link to Loc6 and onwards to Loc8	1	1		1	1	
8	8	Near Memorial Park	LOS link to ScotNet	1	1		1	1	0
Sub total						2	12	8	0

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The solution on the previous page provides....

- A 'turn key solution' - so only input from the client is as per below once final design is concluded,
- Remote access/viewing will be possible if Internet access is made available,
- Networking equipment to be located in D Anderson office, or any other location with access to the LOS radio links, plus Internet access.

Client responsibility

- Arrange with SBC for permission to use the existing CCTV poles, gain access to the base of the locations at 1 to 5, plus equipment in the office and on the roof of Victoria Hall,
- Cherry picker or similar high access vehicle during the on site implementation,
- A permanent mains point at all locations, current and new, could be with SBC for permission to use the 'festive' power source around the town centre if required
- Arrange with ScotBet for permission to place equipment on their building,
- Arrange with Post Office for permission to place equipment on their building,
- Internet access & NVR located in D Anderson Office.

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HD CCTV solution components

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Fixed lens camera

- High quality optical lens providing coverage to a specific area,
- Based on client requirements, can be 'zoomed in' or on 'wide angle' during installation,
- Night time Infra Red (IR) automatically activated,
- Customisable name and time on the video feed.



← Daytime viewing



← Automatic 'black and white' when light levels dictate.

NOTE High resolution pictures on monitor and recordings. Pictures not representative.

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180 degree camera

- Used to cover a relatively wide area,
- New to the market,
- Can be setup to give very little 'blind spot' below the camera,
- Very high resolution, fixed lens and position,
- Customisable name and time on the video feed.



Daytime viewing



Automatic 'black and white' when light levels dictate.

NOTE High resolution pictures on monitor and recordings. Pictures not representative.

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Fisheye camera

- Ultra high resolution to cover a compact area close to camera location,
- New to market providing 360 degree coverage from one camera,
- Can be setup to give no blind spot below the camera,
- Powerful IR array for excellent night viewing,
- Customisable viewing positions, high Megapixel, fixed lens,
- Customisable name and time on the video feed.



Daytime viewing



Automatic 'black and white' when light levels dictate.

NOTE High resolution pictures on monitor and recordings. Pictures not representative.

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Pan Tilt Zoom (PTZ) camera



- HD Pan Tilt Zoom (PTZ) cameras are available in many forms,
- Used to cover a relatively wide area,
- Optical lens often from 10x to 36x zoom,
- Presets setup by the client to cover required views,
- Powerful IR for night time illumination, variable IR depending on zoom status,
- Customisable name and time on the video feed.

← Night time viewing



Automatic 'black and white' when light levels dictate.

NOTE High resolution pictures on monitor and recordings. Pictures not representative.

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Remote viewing – via the Internet

- Core of a solution is the Network Video Recorder (NVR) which is accessed for remote viewing,
- An NVR capacity typically varies between 9 and 64 channels (cameras)
- Storage capacity is sized based on client requirements – number of cameras and ‘estimate’ of days storage needed,
- With Internet access at the NVR location, and correct security settings, then remote viewing is possible over the Internet, via WiFi or 4G access,
- Software available for Android and Apple devices on client supplied hardware,
- Customisable screen layout per user.



Daytime viewing



Automatic ‘black and white’ when light levels dictate.

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HD CCTV solution components



Fisheye camera

- providing 360 degree coverage over area directly below.
- Disc shaped approx. 200mm diameter by 50mm thick – similar to smoke detector,
- Single cable installation with POE power solution.

Pan Tilt Zoom

- A Pan Tilt Zoom (PTZ) camera is controlled remotely, provides 360 degree rotation & 90 degree vertical,
- Optical zoom of usually 10x magnification.
- Size of dome approx. 250mm, total height 350mm and offset from wall 350mm,
- Single cable installation with POE+ power solution.

Bullet Camera

Fixed viewing at installation,
Approx 80mm diameter and 250mm length

Radio link

Directional antenna approx. 250mm tall, 80mm wide and 50mm thick.
Powered over Cat5e cable from local POE Ethernet switch

180degree camera

Shorter than a bullet, but slightly 'fatter'
Size approx. 200mm long by 100mm diameter



NOTE

All cameras are Power Over Ethernet (POE) so single Cat5e external grade cable to each location from Pole/cabinet where the POE Switch will require 240V dedicated power.

Cameras go automatic into 'black and white' when light levels dictate, Night time Infra Red (IR) automatically activated.

Positec (UK) Ltd – 03/02/20

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