



# **Lyme Regis**

Town Council

## **REPORT RELATING TO THE REVIEW OF THE CURRENT AND PROPOSED PUBLIC SPACE SURVEILLANCE CAMERAS CONNECTION TO THE PAN DORSET CCTV CONTROL ROOM FOR LYME REGIS COUNCIL**

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## 1.0 Introduction

Global MSC Security (MSC) has been requested by Lyme Regis Council (LRC) to review their current and potential new CCTV camera locations. The purpose of the review was to establish if the cameras and individual CCTV systems that are installed across the town could be connected to the Pan-Dorset CCTV Control Room in Dorchester where they could be remotely monitored.

The MSC consultant Warren Collins attended Lyme Regis on Wednesday 21<sup>st</sup> July 2021 where he met with Matt Adamson-Drage from LRC.

In addition to this report an Operational Requirements and Data Protection / Privacy Impact Assessment was carried out to review the six (6) new CCTV camera locations requested by LRC.

## 2.0 Existing CCTV Systems

### 2.1 CCTV System 1 – Town Council Building

The Lyme Regis council building has the following equipment installed: -

- One (1) Dahua Fixed View Camera
- One (1) Dahua ANPR Camera
- One (1) Dahua NVR5208-8P-4KS2E-2TB Network Video Recorder (NVR) located in the 1<sup>st</sup> floor office

This system provides CCTV images of vehicle movements through the town as the cameras are located on the main entry and egress roadway point. The Automatic Number Plate Recognition (ANPR) is used to record the vehicle numberplates as they pass the town council building. The ANPR data is used by Lyme Regis council to identify large vehicles that on occasion strike the listed Guildhall building and cause damage.

The CCTV system is not connected externally to enable remote access and so all CCTV images have to be viewed at this location on the monitor that is connected to the NVR.

This CCTV system, if connected to the pan Dorset CCTV control room, would provide the control room with vehicle movements through the town centre and it is recommended the system is connected to the Pan Dorset CCTV control room. However, as the current video recorder and cameras are **not** compatible with the Pan -Dorset CCTV system they will have to be exchanged with compatible models.

### 2.2 CCTV System 2 – Marine Parade

The Marine Parade has the following equipment installed: -

- Ten (10) Dahua Fixed View Cameras
- One (1) Dahua XVR7416L-4KL-X-12TB Network Video Recorder located in the Marine Parade 1<sup>st</sup> Floor Office.

This system provides CCTV images of the Marine Parade, Langmoor and Lister Gardens as there have been a number of Anti-Social Behaviour incidents.

The CCTV system is connected externally via the Marine Parade broadband connection to enable remote access therefore all CCTV images can be viewed remotely as well as in the Marine Parade office on a monitor that is connected to the NVR.

With this external connectivity, the Pan-Dorset CCTV control room could access the LRC CCTV system if required. While this location can be connected to a new wireless network the existing Network Video Recorder and cameras are **not** compatible with the Pan-Dorset CCTV system and would have to be replaced. The current CCTV system also uses the old type of coaxial cabling which would all have to be upgraded to support the new type of IP/digital cameras that the Pan Dorset CCTV system uses.

Given the large cost involved in upgrading this CCTV and as it can already be accessed by the CCTV control room, if the appropriate logins are provided, **it is recommended it remains standalone and not connected to the Dorchester system.**

Dorset Council CCTV Control Room charge £275 per annum per camera for monitoring; potentially, this could cost £2,750 per annum to monitor just this small CCTV system.

### 2.3 CCTV System 3 – Anning Road Park

The Anning Road Park has the following equipment installed: -

- One (1) Dahua Pan Tilt Zoom (PTZ) Camera
- One (1) Dahua NVR5208-8P-4KS2E-2TB Network Video Recorder located in the Cobb pavilion

This system provides CCTV images of the park as there have been a number of Anti-Social Behaviour incidents.

The CCTV system is connected externally via a CSL 4G Router to enable remote access; all CCTV images can be viewed remotely as well as in the Cobb pavilion on the monitor that is connected to the NVR.

This CCTV system already has external access and so the Pan-Dorset CCTV control room could access the CCTV system if required. A review of the town to connect this CCTV system to a new wireless network has proved to be difficult due to its location and there being no direct lines of sight (LOS) between the park and the rest of the town.

**It is recommended this system remains as it is as it can already be accessed by the CCTV control room, if the appropriate logins are provided and that it remains standalone and not connected to the Dorchester system.**

### 3.0 New CCTV Camera Locations

The complete Operational Requirements and Data Protection/Privacy Impact Assessment (DPIA) for the following proposed new cameras is detailed in the “Lyme Regis PSS OR & DPIA”.

#### 3.1 New Camera 1 - Junction of Broad Street and Silver Street

A new PTZ camera is installed on an existing lighting column at this location.

The camera is connected to a new wireless network within Lyme Regis

### **3.2 New Camera 2 - Junction of Broad Street / Cobb Gate Square**

A new PTZ camera is installed on an existing lighting column at this location.

The camera is connected to a new wireless network within Lyme Regis

### **3.3 New Camera 3 – Marine Parade by Swim Restaurant**

A new PTZ camera is installed on a newly installed CCTV 6 metre column at this location. While there are existing lighting columns along the parade the design would mean the camera would be installed low down which would restrict its view into the gardens above. With a new 6 metre CCTV column it would enable much better coverage of the surrounding area. A photo of the lighting columns is shown below.



The camera is connected to a new wireless network within Lyme Regis

### **3.4 New Camera 4 - Monmouth Car Park**

A new PTZ camera is installed on a newly installed CCTV 6 metre column at this location.

The camera is connected to a new wireless network within Lyme Regis.

### **3.5 New Camera 5 – Skatepark in Charmouth Road Car Park**

A new PTZ camera is installed on a newly installed CCTV 6 metre column at this location.

The camera is connected to a new wireless network within Lyme Regis

### **3.6 New Camera 6 – Holmbush Car Park**

A new PTZ camera is installed on a newly installed CCTV 6 metre column at this location.

The carpark is located in an area that a desktop LOS survey of the town suggests that connecting the camera into a new wireless network would be difficult. Therefore, if this camera is to be installed, it should be a standalone camera with an onboard recording facility that can be remotely accessed, via 3G/4G, to view the live and recorded images as well as move the camera so it can view around the carpark.

### **4.0 Recorder Location for the Lyme Regis CCTV cameras**

CCTV system 1 cameras and the new camera numbers 1 to 5 images could be recorded either within Lyme Regis or on the existing Pan Dorset CCTV system in Dorchester.

#### **4.1 Recording Video Images at Lyme Regis**

If the CCTV images were recorded at Lyme Regis there is the following advantages: -

- If the connection to Direct Control Room is lost the CCTV images are still be recorded within Lyme Regis

If the CCTV images were recorded at Lyme Regis there is the following disadvantages: -

- A new NVR would have to be installed in the Lyme Regis Town Council building. The NVR would have to be in a secure location that is suitable to house this type of equipment i.e., in an air-cooled environment or a suitable NVR is installed to support a non-air-cooled location.

#### **4.2 Recording Video Images at Dorchester**

If the CCTV images were recorded at Dorchester there is the following advantages: -

- A new NVR would not have to be installed in the Lyme Regis Town Council building. Therefore, there is no concerns for the equipment being damaged or accessed by unauthorised personnel.

If the CCTV images were recorded at Dorchester there is the following disadvantages: -

- If the connection to Dorchester Control Room is lost the CCTV images are not going to be recorded until the link is re-established.

### **5.0 Transmission to the Pan Dorset CCTV Control room in Dorchester**

#### **5.1 Wireless Network within Lyme Regis**

A desktop LOS survey of Lyme Regis has been carried out and initial findings suggest the following can be connected via a new wireless network: -

- Town Council Building – CCTV System 1
- Marine Parade – CCTV System 2 (although this is *not* recommended to be connected)
- Camera 1



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- Camera 2
- Camera 3
- Camera 4
- Camera 5

The following cannot be connected into a new wireless network: -

- Anning Road Park – CCTV System 3 (although this is *not* recommended to be connected)
- Camera 6



LOS schematic identifying locations that can use wireless transmission

As the wireless network desktop design is currently only theoretical, if Lyme Regis Council are to proceed with connection of the new cameras wirelessly, we recommend a full-on site survey and design with cherry pickers should be carried out to confirm this potential connectivity. A budget cost of £2K for this has been allowed for in the costings.

## 5.2 BT RS1000D Link from Lyme Regis to Dorchester

A new BT RS1000D 100 Mbs fibre circuit would be required to link Lyme Regis to the Pan Dorset CCTV Control Room in Dorchester. The circuit would be used to either transmit all of the camera images to be recorded at Dorchester or for the Pan-Dorset CCTV Control Room to access the recorder at Lyme Regis so the live and recorded images can be viewed.

***It is recommended the BT RS1000D circuit is installed in the Lyme Regis Town Council building.*** This building is under the control of Lyme Regis and can be connected to a new wireless transmission system across the town to bring all of the CCTV cameras back to this location.

## 6.0 Budget Pricing

It is assumed that if Lyme Regis wish to proceed then no budget costing have been provided to supply any consultancy to support the project such as the task for creating a bespoke tender specification, etc. and that Lyme Regis Council will use this report to obtain pricing from various Contractors.

The CCTV column budget cost does allow for mains electrical power to be installed from a local supply. LRC should obtain quotations for power separately as some columns (Camera 5 for example) are located quite a distance from a power source.

## 6.1 Capital Budget Pricing – Recording Video Images at Lyme Regis

Item Description	Value
CCTV System 1 – New Cameras	£2K
Network Video Recorder	£15K
Wireless Network Detailed Survey	£2K
Wireless Network	£18K
New CCTV Camera 1	£2K
New CCTV Camera 2	£2K
New CCTV Camera 3 & New CCTV Column	£6K
New CCTV Camera 4 & New CCTV Column	£6K
New CCTV Camera 5 & New CCTV Column	£6K
New CCTV Camera 6 (On Board Recording) & New CCTV Column	£8K
BT RS1000D Connection from Lyme Regis to Dorchester	£7.9K
<b>Total Circa</b>	<b>£74.9K</b>



## 6.2 Capital Budget Pricing – Recording Video Images at Dorchester

Item Description	Value
CCTV System 1 – New Cameras	£2K
Camera Licenses to connect to Dorset CCTV system	£1.8K
Wireless Network Detailed Survey	£2K
Wireless Network	£18K
New CCTV Camera 1	£2K
New CCTV Camera 2	£2K
New CCTV Camera 3 & New CCTV Column	£6K
New CCTV Camera 4 & New CCTV Column	£6K
New CCTV Camera 5 & New CCTV Column	£6K
New CCTV Camera 6 (On Board Recording) & New CCTV Column	£8K
BT RS1000D Connection from Lyme Regis to Dorchester	£7.9K
<b>Total Circa</b>	<b>£61.7</b>

## 6.3 Annual Revenue Budget Pricing

Item Description	Value	Total
BT RS1000D Connection from Lyme Regis to Dorchester	£1,200	£1,200
Pan Dorset CCTV Control Room monitoring costs	£275 per camera – Based on 8 cameras (CCTV System 1 & 6 new cameras)	£2,200
<b>Total Circa</b>		<b>£3.4K</b>

## 7.0 Summary

For Lyme Regis to install the new six cameras along with replacing the Town Council building CCTV system, installing a new Lyme Regis Network Video Recorder and connecting the town to the Pan Dorset CCTV Control room in Dorchester the budget cost would be Circa £74.9K.

Alternatively, the CCTV images from Lyme Regis could be recorded at Dorchester for a budget cost of circa £61.7K.

The new camera 6 in the Holmbush carpark alone is circa £8K, as its not able to connect to the wireless network easily, so this budget value could be removed from the main project cost therefore making the Lyme Regis recorded solution circa £51.9K

Annual revenue costs for the BT link from Lyme Regis to Dorchester and the monitoring of the cameras would be circa £3.4K.