



COOMBER SECURITY SYSTEMS LTD

Deane Gate Lodge, Deane Gate Avenue, Taunton,
Somerset TA1 2UH

Tel: (01823) 282888 Fax: (01823) 323196

Email: info@coombersecurity.com

Web: www.coombersecurity.com

DAVID RICHARDS
MOUNT STREET TOILETS
MOUNT STREET
BISHOPS LYDEARD
TAUNTON
TA4 3LH

AMH030719817

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RE: CCTV



THE FOLLOWING SPECIFICATION IS FOR A COOMBER SECURITY SYSTEMS CLOSED CIRCUIT TELEVISION SYSTEM. AS A RECOGNIZED FIRM OF THE NATIONAL SECURITY INSPECTORATE (NACOSS GOLD WARD) COOMBER SECURITY SYSTEMS LIMITED INSTALL ALL SYSTEMS TO NCP 104 STANDARDS. ON COMPLETION OF THE INSTALLATION A CERTIFICATE OF COMPLIANCE WILL BE ISSUED.

** ** *

TYPE A



Powered by
DARKFIGHTER

The Hikvision DS-2CD3356G2-1SU is a 5-megapixel max vandal resistant turret camera with a 2.8 or 4mm fixed lens. The cameras have built in IR with a range of up to 40m and housed in an IP67 rated housing. Other features include dual streaming, day/night function, digital wide dynamic range and the ability to capture footage directly to an inbuilt Micro SD card. The cameras can be powered over ethernet (PoE) for quick and easy installation when used with the plug and play features of our Hikvision NVRs

SYSTEM OVERVIEW

We have outlined below our proposed Closed-Circuit Television System, Coomber Security Systems Ltd have allowed for a total of **One (01)** Internal / External cameras, each camera will be a fixed day / night mini dome or bullet cameras.

Recording facilities will incorporate A 4-channel, **4G recording unit** offering **2tb** of storage

CAMERA LOCATIONS

Where appropriate, locations will be front or rear and left or right as seen by an observer standing outside and facing the front of the premises.

There are no allowances for any external systems to be integrated into this design.

All environmental conditions have been considered such as fixed or movable obstructions to camera views, including glare from facing windows.

SYSTEM PURPOSE

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To deter, detect and record unauthorised entry by monitoring the movement of individuals entering and leaving the building by the front entrance. To deter, detect and record unauthorised approaches or entry to the side of the building.

RESILIENCE

The property continuously occupied during opening hours so no specific tamper requirements.

AUDIO

Audio, by default, will be set to 'off' as no user requirement was requested during the site survey.

CAMERA VIEWS

Displayed CCTV viewpoints are indicative and are provided solely for reference; actual field-of-view, angles, and coverage areas may vary based on final installation conditions.

CAMERA 1

Camera	Type A
Purpose	General view of the toilet access and parking area.
Location	To be mounted above the Men's entry door.
View	Observing the parking and front toilet access area.
Power	12VDC from local Power Supply Unit. /POE
Frame rate	12fps (proposed)

02 RECORDING UNIT



Supply and Install a **DS-7608NI/K2/8P/4G** series NVR x 8ch with up to 2 sata interfaces with capacity for up to 4TB in each. Maximum recording resolution 8MP and third-party network camera Support. The NVR has a generous record rate of **100 mbps and also offers connectivity to almost any device including apps for windows, mac, I phone and android.** The NVR will be license free and have the facility to monitor images off Site via the net.

THE NVR WILL BE INSTALLED WITH A 2TB HARD DRIVE AND SETUP FOR 31 DAYS RETENTION. CALCULATIONS ARE BASED ON THE PROPOSED INSTALLATION OF ONE CAMERA, USING ASSUMPTIONS AND PREVIOUS EXPERIENCE/KNOWLEDGE PLEASE NOTE, IF ADDITIONAL CAMERAS ARE ADDED AT A LATER DATE THE RETENTION PERIOD WILL BE REDUCED

*Storage requirements completed using online 'Estimated retention calculator'

03 DATA SIM CARD

It is the Client's responsibility to supply a suitable data SIM card for use with the equipment. The Client must ensure that the selected network provider offers adequate signal strength and reliable coverage at the installation location to enable the equipment to operate correctly. Coomber Security cannot be held responsible for any loss of functionality, communication issues, or performance problems resulting from inadequate network coverage, insufficient signal strength, or issues relating to the Client's chosen SIM card or mobile network provider.

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04 EXPORTED RECORDINGS

Videos and images can be exported in MPEG-4 (mp4) format.
Export will be via USB port and can be written to any USB enabled media.
Training to be given on handover on the retention and export of video images where they may be required for investigation purposes.

05 DATA COMMUNICATION ACT

Your attention is drawn to the Data Communication Act 2025 regarding the use of uploading images online.

<https://www.gov.uk/government/consultations/investigatory-powers-act-2016-codes-of-practice/outcome/communications-data-code-of-practice-accessible-version>

06 REMOVE VIEWING



The Hik-connect app is designed to work with Hikvision series DVRs, NVRs and IP cameras which support Cloud P2P function. It allows you to live view your cameras remotely. It also allows you to play back recorded video to search every milestone of your life.
When motion detection alarm of your device triggered, you can also get an instant message notification from the Hik-connect app if required.

**The Hik-Connect App is installed free and as standard with every Coomber Security Install
(Remote viewing via the app is subject to the use of a Data Sim - customer to supply)**

07 VIEWING EQUIPMENT



Purpose: To provide imagery at strategic points within the building.

Model: TFT 22"

Resolution: 2080 X 1024

Location: adjacent to the recording unit.

Privacy:

Where it is identified that images from cameras overlook private properties, and that there may be privacy issues, then images from the relevant cameras will be digitally 'masked' to exclude these areas when viewed.

Imagery Size:

For identification purposes the subject on the screen should occupy more than 120% of picture height.

For Detection of an intruder the subject on the screen should be greater than 10% of the picture height.

For recognition purposes the subject on the screen should be greater than 50% and
For monitoring movement, direction and speed of people, the subject on the screen should be not less than 5% of picture height.

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08 CABLING



TYPE: CAT5E UTP type cable, as appropriate.

PURPOSE: To provide the data path from the cameras to the recording unit.

09 COPEX



HDMI & USB over single cat5 extender

POE – receiver requires no power – this will be supplied via CAT 5

Extends up to 70m

Full HD 1080p 60fps 50/60Hz

Auto cable length detection

HDMI loop-through.

10 TRUNKING



Mini-Trunking, offering an efficient and economical solution to cable management where running cables throughout the fabric of the building isn't possible.

11 RECOGNITION



Identify

4 mm per pixel or 250 pixels per metre or 100% of the available

screen height or 40% Full HD screen height

Sufficient picture quality and detail to identify an individual beyond reasonable doubt. Must pass HOSDB 'Faces' test.

Recognise

8 mm per pixel or 125 pixels per metre or 50% of the available

screen height or 20% Full HD screen height

Viewers can say with a high degree of certainty whether or not an individual shown is the same as someone they have seen before. Same recording quality setting as that used for identifying.

Observe

16 mm per pixel or 62.5 pixels per metre or 25% of the available

screen height or 10% Full HD screen height

Some characteristic details of the individual, such as distinctive clothing can be seen. Must be able to distinguish between individuals.

Screen height is how much space a 1.7m tall figure would occupy, as shown in the diagram above.

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12 LIGHTING

White Light: It will be necessary to maintain a reasonable level of 'white' light within the proposed area of imagery if 'after dark' colour images are required, in order to prevent colour shift in the imagery or reversion to a monochrome image. The requirement for additional lighting may prove necessary after the cameras have been installed.

NO WHITE LIGHTING HAS BEEN ALLOWED IN THIS QUOTATION. THIS LIGHTING WILL RELY ON THAT FITTED BY THE CLIENT.

Infra-Red Light: The camera and lens combination detailed in this quotation can function with Infra Red lighting, if required. **N.B.** Infra-red imagery is



monochrome only.

Infra-Red Image above is taken from Coomber Security's offices without the use of any white or supplementary lighting.

Lux Level	Moonless, overcast night sky	0.0001 lux
examples:	Moonless, clear (i.e. starlight) night sky	0.001 lux
	Quarter moonlight on a cloudless night	0.01 lux
	Deep twilight	1 lux
	Twilight	4 lux
	Well, lit main road	10 lux
	Stairs/Passages	60 lux
	Offices/Retail	250/500 lux
	Store Daylight	10,000/25000 lux
	Full sunlight	32,000/130,000 lux

Where public street lighting forms part of the lighting provision, the customer should determine whether any arrangements are in place, or are being considered, to introduce energy saving measures (timers which could switch the lights off during certain hours of darkness) which would have significant detrimental effect on the quality of images recorded and/or transmitted.

14 SIGNAGE

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For the requirements of data protection, the system will come supplied with A4 sized 'CCTV' sign(s), appropriate for site.

Further signage may be purchased if required

240 VOLT AC SWITCHED SOCKET OUTLETS (customer to supply)

adjacent to the NVR

adjacent to each Monitor

15 TELEPHONE & NETWORK

It is the Clients' responsibility to provide all of the following Telephone and Network Equipment and the IP Addresses. The system cannot be viewed/operated remotely until the relevant items have been provided and made 'active'.

Network Points: If the CCTV System is to be viewed from local PCs or over the Internet a Network Connection Point to the building LAN/WAN/Router will be required adjacent to each DVR. This NCP will need to be able to access the Internet if the DVR is to be accessed using this facility.

I/P Address: If the CCTV System is to be viewed from local PCs or over the Internet a fixed IP Address will be required for each DVR.

Network Equipment: If the CCTV System is to be viewed from local PCs or over the Internet, Network switches, routers etc may be required.

PLEASE NOTE THAT IF THE BROADBAND PROVIDER IS CHANGED AFTER THE ORIGINAL CAMERA INSTALLATION, A CALL OUT FEE WILL BE CHARGED TO RECONFIGURE THE RECORDING UNIT AND ROUTER ENABLING LIVE STREAMING AND REMOTE ACCESS VIA A PORTABLE DEVICE.

Telephone Line: Required if the DVRs are to be viewed remotely. This will be a 'Broadband' Line and will be connected to the building LAN/WAN.

16 DATA PROTECTION AND PRIVACY

The Client's attention is drawn to the requirements of the Data Protection Act 2018, UK GDPR and current guidance issued by the Information Commissioner's Office (ICO) regarding the use of CCTV and video surveillance systems. Responsibility for compliance with all applicable legislation, including the provision of appropriate signage and payment of any applicable ICO data protection fee, rests with the End User.

Further information is available from the ICO website: www.ico.org.uk

17 ADDITIONAL INFORMATION

Continuous monitoring and recording are dependent upon the provision of a mains

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electricity supply. No provision has been made for any type of power back up in the event of mains failure.

18 TEST COMMISSION AND HANDOVER

A system test (test plan to be agreed with the customer) will be conducted prior to the system being handed over for use.

On handover, the following documentation will be provided to the user:

- Risk Assessment.
- User Requirements.
- System Design Specification/As fitted documentation.
- Test Plan.
- Reference Images from each of the cameras.
- Operating instructions/manuals.
- System account details and passwords.
- System Logbook.
- Handover checklist and certificate of acceptance.
- NSI Certificate of Compliance.

SUPPLY, INSTALLATION AND COMMISSION FOR THE SUM OF £1085.00 PLUS VAT

ANNUAL MAINTENANCE £80.00 PLUS VAT

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PLEASE NOTE

- 1) **A DOUBLE GANG, 240 VOLT SOCKET WILL BE REQUIRED FOR THE SOLE USE OF THE RECORDING UNIT AND MONITOR. THE DOUBLE GANG SOCKET IS TO BE SUPPLIED AND INSTALLED BY OTHERS.**
- 2) **FULL TRAINING ON HOW TO USE THE SYSTEM AND STORAGE OPTIONS WILL BE PROVIDED AT HANDOVER. USER MANUALS CAN ALSO BE PROVIDED.**
- 3) **ON COMPLETION OF INSTALLATION, A SYSTEM TEST WILL BE COMPLETED PRIOR TO THE FINAL HANDOVER, WHICH WILL COVER BUT IS NOT LIMITED TO REFERENCE IMAGES FROM THE CAMERAS, SYSTEM LOG IN DETAILS AND PASSWORDS, HANDOVER CHECKLIST. AN NSI CERTIFICATE WILL THEN BE ISSUED AND FORWARDED ON.**

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