



### Instruction Manual

#### SEE618

8MP Bullet 2.8-12mm Motorised Lens Camera

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Part 1 Introduction



#### Introduction

#### 1.1 SEE618

With an IR reach of up to 40M and a 2.8-12mm motorised lens, this camera is a great choice for covering larger areas with CCTV.

4K Resolution - Also described as 8MP offers superb quality images that's ideal if your footage might end up in court as evidence. Designed to be used with a 4K DVR such as the new Zip Xtreme.

#### **Tools & Handy Extras**

Screwdriver

Drill

12V DC PSU

Drill bits

BNC Crimp Tool & BNCs

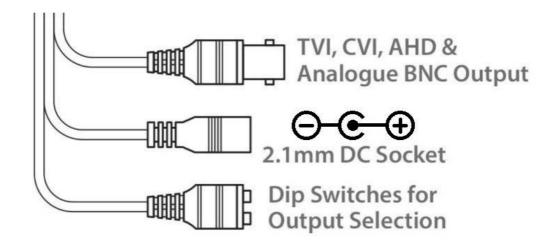
RG59 Coax Cable

Digital Multi-Meter

LCD400K - CCTV Test monitor



#### **Connections & Dipswitches**



The camera has a 2.1mm socket which requires 12V DC, use a regulated power supply rated above the current draw of the camera.

The camera is polarity sensitive so connections must be correctly made.

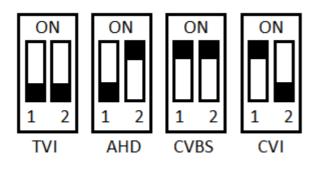
The camera has a standard BNC connector for the 4-in-1 video output, the output can be changed to AHD, CVI or CVBS if required.

#### **Dipswitch 4-In-1 Technology**

Selectable HD-TVI, HD-CVI, AHD and CVBS (Analogue) Output. As default the camera is set to HD-TVI, however the output can be changed to AHD, CVI or CVBS if required.

This output can be changed with the dip switches on the fly-lead of the camera. Please note the "Output Mode" in the menu of the DVR won't change the format, as the dip switch overrides the output.

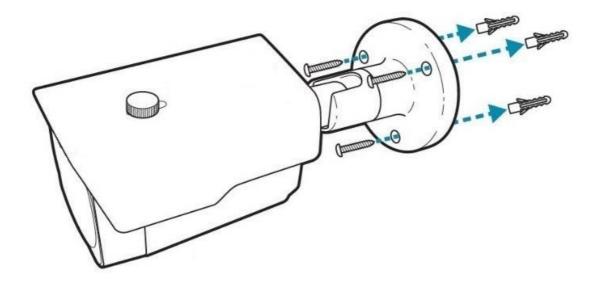
The dip switch configuration can be found below:-





#### Mounting

5.1 Bullet



A template is provided in the box for marking the hole positions for the fixing screws.



#### **Motorised Lens**

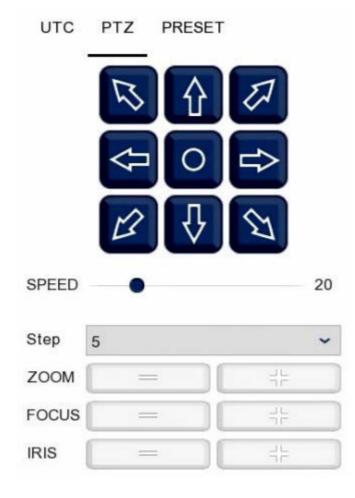
To access the Motorised Lens via coaxitron:-



1. Click on the image in Live view

2. Click on the PTZ button at the bottom of the screen

3. Use Zoom  $\!+\!$  and  $\!-\!$  to zoom in and out, the camera should automatically focus when Zoom  $\!+\!/\!\!-\!$  is released





### ZIP->

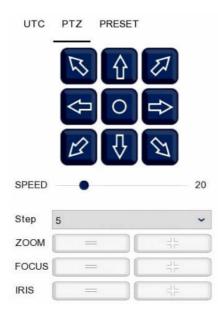
#### **OSD Menu**

Access to the camera menu is by Coaxitron. For the ZIP DVRs, ZIP Coaxitron is set as default.

To access the Cameras Menu via coaxitron:-



- 1. Click on the image in Live view
- 2. Click on the PTZ button at the bottom of the screen
- 3. Click on the IRIS + / centre button to display the menu



Use the directional arrows to move up and down through the menu. Use the directional arrows left and right to change the option. Use IRIS + to select & enter that menu option.

#### 7.1 8MP OSD Menu Motorised

AE	BRIGHTNESS	0 ~ 100 (Default 41)
	EXPOSURE MODE	GLOBAL /
		BLC
		0 ~ 7 (Default 4)
	RETURN	



AF	AF MODE	SEMI / AUTO / MANUAL		
	ZOOM	- / +		
	FOCUS	- / +		
	BOOT MODE	SAVE POS / WIDE END / TELE END /		
	TDN AD	OPEN / CLOSE		
	FOCUS TRIGGER	SELECT (IRIS +)		
	LENS INIT	SELECT (IRIS +)		
	RETURN			
AWB	MODE	PRO / GREY WORLD		
	RGAIN	0 ~ 100 (Default 44)		
	BGAIN	0 ~ 100 (Default 50)		
DAY / NIGHT	MODE	EXT / COLOR / B/W		
	RETURN			
IMAGE ENHANCE	CONTRAST	AUTO /		
		MANUAL		
		$0 \sim 20$ (Default 5)		
	SHARPNESS	AUTO /		
		MANUAL		
		$0 \sim 20$ (Default 3)		
	SATURATE	AUTO /		
		MANUAL		
		$0 \sim 20$ (Default 2)		
	3DNR	AUTO /		
		MANUAL		
		0 ~ 20 (Default 13)		
	2DNR	AUTO /		
		MANUAL		
		0 ~ 20 (Default 19)		
	FLIP	OFF / ON		
	MIRROR	OFF / ON		
	RETURN			



VIDEO SETTING	HD	NO ADJUSTMENT SEE 4-IN-1 SWITCH		
	STANDARD	8MP 15 / 8MP 12.5		
	REBOOT & APPLY			
	RETURN			
LANGUAGE	ENGLISH / SIMPLIFIED CHINESE / TRADITIONAL CHINESE / RUSSIAN / SPANISH / FRENCH / POLISH / ITALIAN / PORTUGUESE			
WDR	OFF / ON			
FUNC	PRIVACY	MODE	OFF / ON	
		AREA 0	CUSTOMISE	
		AREA 1	CUSTOMISE	
		AREA 2	CUSTOMISE	
		AREA 3	CUSTOMISE	
		COLOR	RED / GREEN / BLUE	
		TRANSPARENCY	OFF / ON	
		RETURN		
	RETURN			
RESET				
SAVE – EXIT				
EXIT				

#### 7.2 Key Menu Settings

**Exposure Mode** - AUTO / GLOBE / GLOBAL sets the required shutter speed for the current light level. The shutter speed will automatically detect the required length of time to keep the digital sensor exposed to light. FLK option sets the shutter speed to stop synchronisation with lighting so that pulsing effect is minimised.

White Balance - Colour adjustment of the camera to be set up so objects appear a natural colour. ATW / PRO (Automatic tracking white balance) continually tracks and adjusts the white balance, making it suitable for use in cameras in which the image content and lighting are subject to changes.

**Day & Night** - The camera can be set to colour or B&W mode or have it automatically switch External is set as default, the switch between colour and black & white is controlled by an external trigger In this a light dependent resistor.

**DNR** (Noice Reduction) - Noise Reduction is the process of removing noise from the video signal by applying a digital filter. 2D noise reduction reduces noise in the foreground of the image where as 3D noise reduction reduces noise in both the foreground and the background of the image.

**D-WDR** - Digitally adjusts the exposure in areas of the frame to maintain optimum levels in both the dark and bright areas of an image. NOTE - Some models may not have D-WDR function.

**Reset** - Defaults the camera to factory settings. This setting helps when fault finding issues with the camera to ensure all settings are defaulted.



#### Troubleshooting

#### 8.1 Camera Rebooting / Turning Off

A. Check the voltage to the camera (under load) using a digital multi-meter, if below 10.8V then move the power supply closer to the camera.

B. For 12V DC cameras, only use regulated power supply rated above the current consumption, so that the camera is always receiving the correct supply which is rated above the current consumption.

C. Use thicker gauge copper cabling to reduce the voltage drop to the camera, using thicker cable will reduce the resistance between the camera and the power supply and therefore reduce the voltage dropped along the cable.

#### 8.2 Poor Quality Images

A. Check the video format the DVR (digital video recorder), then set the camera to the relevant video format – see the 4-In-1 Technology

B. If set to CVBS, then this is a low quality video output for legacy systems (analogue - CVBS), when using a 2 MegaPixel DVR or above then use another video format, like HD-TVI.

C. Reset the camera menu via Zip Coaxitron – OSD Menu

D. Check if the DVR (digital video recorder) supports the resolution of the camera.

#### 8.3 Image is Black & White

A. Check the video format your DVR supports, then set the camera to the relevant video format – see the 4-In-1 Technology

B. Reset the camera menu via Zip Coaxitron OSD Menu

D. Check if the DVR (digital video recorder) supports the resolution of the camera.

#### 8.4 NCD / No Image Displayed on Recorder

A. Check the voltage to the camera (under load) using a digital multi-meter, if below 10.8V then move the power supply closer to the camera.

B. For 12V DC cameras, only use regulated power supply rated above the current consumption, so that the camera is always receiving the correct supply which is rated above the current consumption.

C. Use thicker gauge copper cabling to reduce the voltage drop to the camera, using thicker cable will reduce the resistance between the camera and the power supply and therefore reduce the voltage dropped along the cable.

D. Ensure that the BNC – BNC lead that is connected between the camera and DVR has no shorts between the ground and the centre core (positive) or open circuits along the centre core (positive) or open circuits along the ground.

#### **General Maintenance**

Routinely clean the camera to prevent dust build up as this can effect the performance of the camera. It is recommended to use a damp non-abrasive microfibre cloth.

Routinely check the connections for power and data to ensure no water ingress and corrosion.

Check that the cameras are firmly attached to the wall or mounting bracket.

Check playback in the recorder to ensure the camera is recording and triggering properly.



#### Specification

#### 10.1 SEE618

Resolution	4K (8MP)		
Lens Type	2.8-12mm Varifocal		
Image Output	1 Volt Peak-Peak 75 ohm		
Min.Illumination	0 Lux IR On		
Day/Night	Mechanical (True Day-Night)		
InfraRed LEDs	4 High Powered LEDs		
IR Range	40M		
Input Voltage	12V DC		
Current Consumption	500mA (IR On)		
IP Rating	IP66		
Video Connection	BNC Socket		
Power Connection	2.1mm DC Socket		
Finish	White/ Grey		
Build	Metal		
Dimensions	90mm (Diameter) x 151mm (Length ex bracket)		



#### Conditions

#### **11.1 General Company Disclaimer**

All specifications are approximate. System Q Ltd reserves the right to change any product specifications or features without notice. Whilst every effort is made to ensure that these instructions are complete and accurate, System Q Ltd cannot be held responsible in any way for any losses, no matter how they arise, from errors or omissions in these instructions, or the performance or non-performance of the equipment that these instructions refer to.

#### **11.2 WEEE Declaration**



This symbol on the products and/or accompanying documents means that used electronic equipment must not be mixed with general household waste. For treatment, recovery and recycling please return this unit to your trade supplier or local designated WEE/CG0783SS collection point as defined by your local council.

#### 11.3 Copyright

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