Instruction Manual

SEE372

2MP Anti-Vandal Dome 2.8-12mm Motorised Lens

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Introduction

1.1 SEE372

This Anti-Vandal Dome with a tough metal exterior is ideal for both outdoor and indoor uses.

This 2MP model is compatible with most current DVRs on the market including the new Zip DVR Lite model. It suits domestic installations and commercial jobs with a limited budget.

With 2MP resolution and a true day night filter make it great choice for the professional installer.

Tools & Handy Extras

Screwdriver

Drill

12V DC PSU

Drill bits

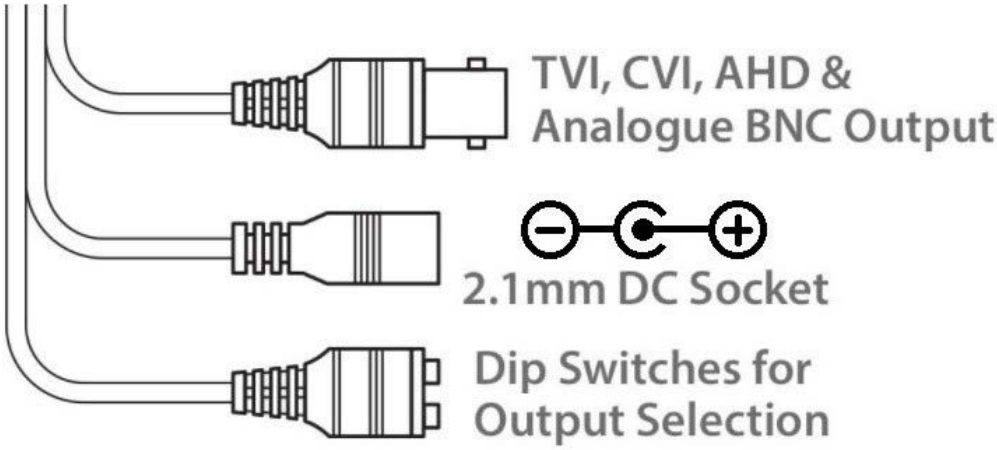
BNC Crimp Tool & BNCs

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.

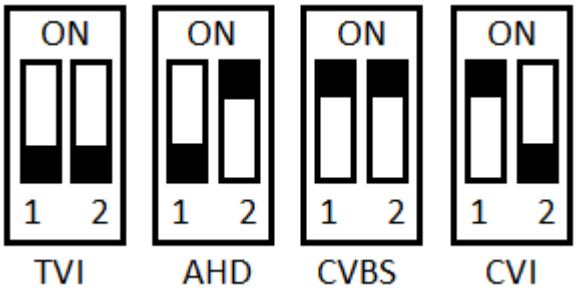
The camera has a standard BNC connector for the 4-in-1 video output, the output can be changed to AHD, CVI or CVBS if required.

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.

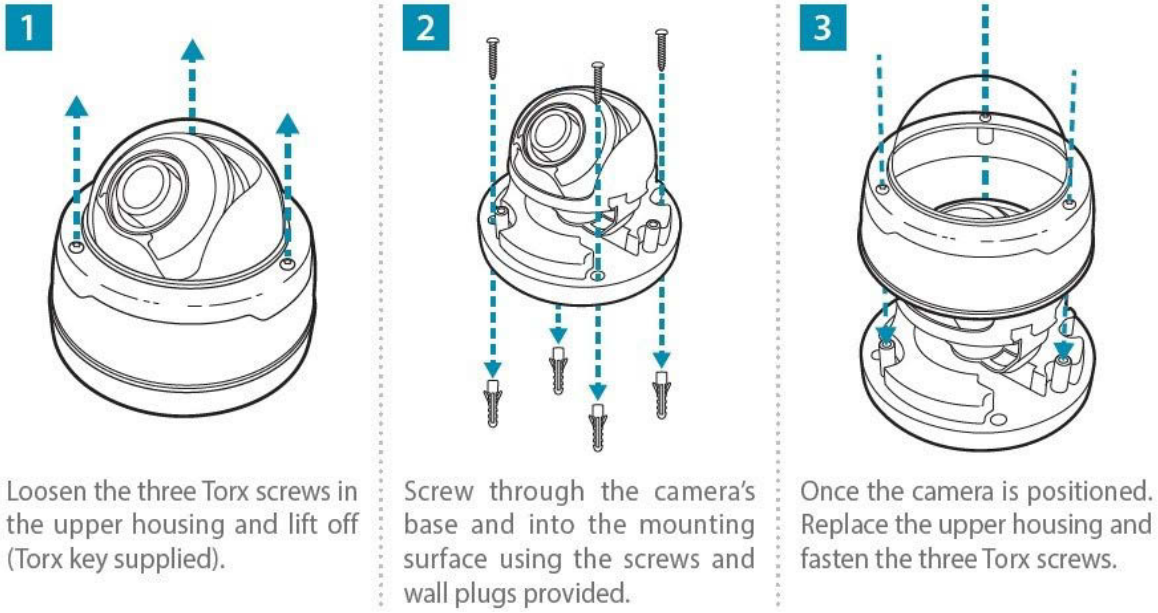
This output can be changed with the dip switches on the fly-lead of the camera. Please note the "Output Mode" in the menu of the DVR won't change the format, as the dip switch overrides the output.

The dip switch configuration can be found below:-



Mounting

5.1 Anti-Vandal Dome

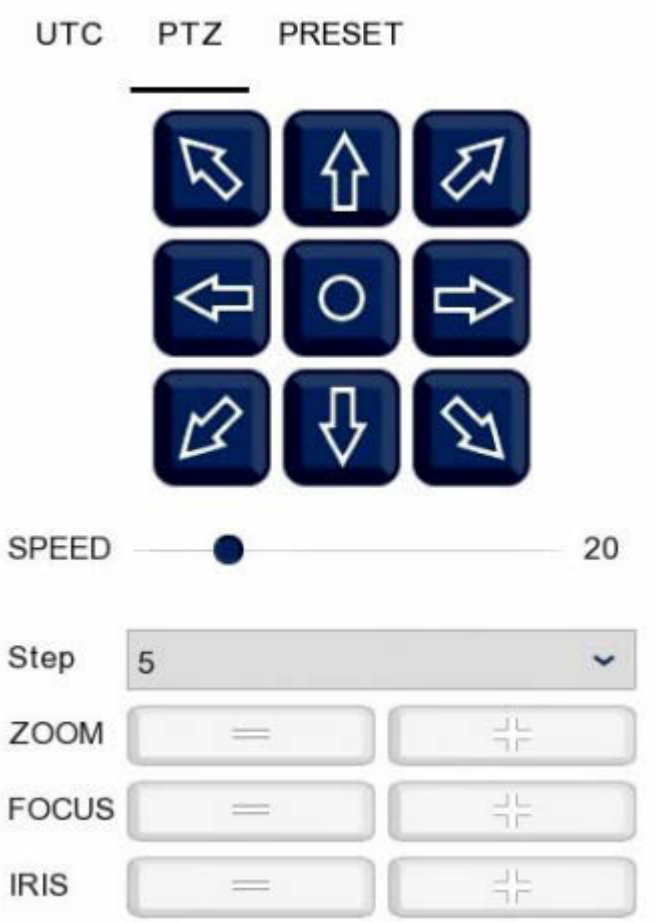


A template is provided in the box for marking the hole positions for the fixing screws.

Motorised Lens

To access the Motorised Lens via coaxitron:-

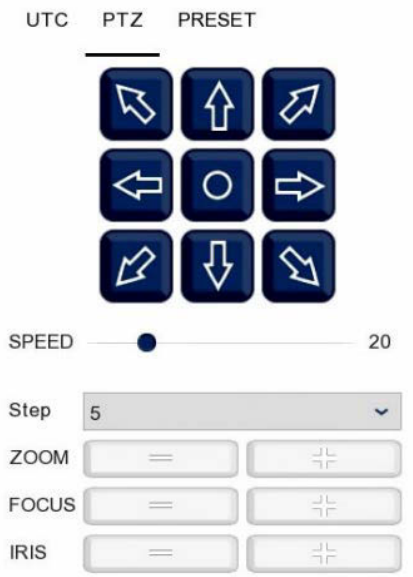
1. Click on the image in Live view
2. Click on the PTZ button at the bottom of the screen
3. Use Zoom + and - to zoom in and out, the camera should automatically focus when Zoom +/- is released



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 2MP OSD Menu - Motorised

AF	AF MODE	SEMI / AUTO / MANUAL
	ZOOM	- / +
	BOOT MODE	SAVE POS / WIDE END / TELE END /
	TDN AD	OPEN / CLOSE
	FOCUS TRIGGER	SELECT (IRIS +)
	LENS INIT	SELECT (IRIS +)
	RETURN	

AE	BRIGHTNESS	0 ~ 100 (Default 31)
	EXPOSURE MODE	GLOBAL / BLC / FLC
		0 ~ 7 (Default 4)
	RETURN	
WB	MODE	ATW / MWB
	RGAIN	0 ~ 32 (Default 20)
	BGAIN	0 ~ 32 (Default 21)
DAY / NIGHT	MODE	EXT / AUTO / COLOR / BW
	RETURN	
IMAGE ENHANCE	CONTRAST	AUTO / MANUAL
		0 ~ 40 (Default 21)
	SHARPNESS	AUTO / MANUAL
		0 ~ 20 (Default 3)
	COLOR GAIN	AUTO / MANUAL
		0 ~ 30 (Default 8)
	3DNR	AUTO / MANUAL
		0 ~ 30 (Default 4)
	RETURN	
VIDEO SETTING	VIDEO STANDARD	PAL / NTSC
	HD FORMAT	NO ADJUSTMENT
	HORIZONTAL INVERTED	CLOSE / OPEN
	VERTICAL INVERTED	CLOSE / OPEN
	WDR	CLOSE / OPEN / EXT
	RETURN	
LANGUAGE	ENGLISH / SIMPLIFIED CHINESE / TRADITIONAL CHINESE / RUSSIAN / SPANISH / FRENCH / POLISH / ITALIAN / PORTUGUESE	
RESET		

SAVE – EXIT
EXIT

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 5

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 5

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 SEE372

Resolution	2MP
Lens Type	2.8-12mm Motorised Lens
Image Output	1 Volt Peak-Peak 75 ohm
Min.Illumination	0 Lux IR On
Day/Night	Mechanical (True Day-Night)
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	148mm (Diameter) x 109 mm (Height)
Build	Metal

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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