



5MP All-In-One 5-50mm Motorised Lens

xSEE885

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1 Introduction

The SEE885 has multi format HD modes for TVI, AHD, CVI and CVBS

In addition it comes in two colours, matt Grey & White. The SEE885 camera produces exceptional quality images using the 1/2.7" Progressive CMOS Sensor.

With an impressive 80M Infra-Red Range to help improve light capture at night.

The SEE885 has Coaxitron Control facility for changing the Motorised Zoom & Focus and also the OSD menu specifications via a ZIP SUPA or ZIP XTRA DVR.

2 Tools & Handy Extras

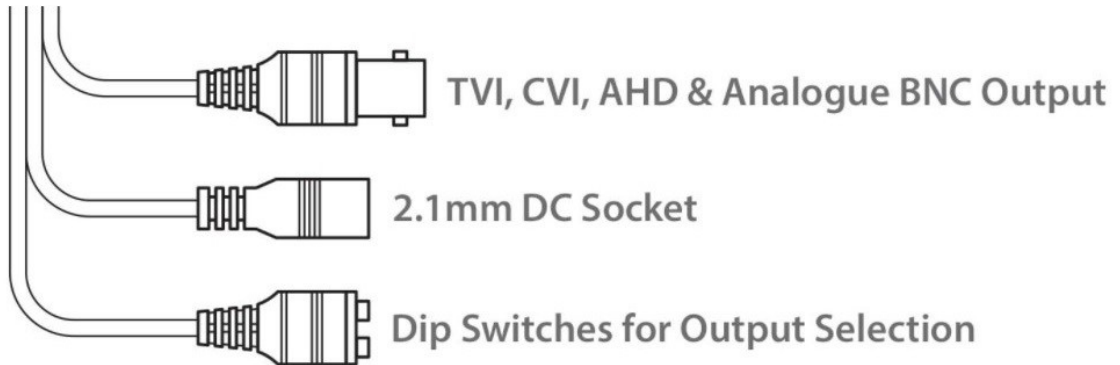
- Screwdriver
- Drill
- Hammer
- POW151 - 12V DC 500mA Plug-in PSU
- Drill bits
- BNC Crimp Tool & BNCs
- RG59 Coax Cable
- Digital Multi-Meter
- LCD400K - CCTV Test monitor

3 Connections, Dimensions & Key Features

The camera is provided with a fly lead with a 2.1mm DC socket and standard BNC connector

It is recommended to use a power supply that is rated higher than the current consumption of the camera i.e. the current consumption is 750mA on so add approximately 50% headroom, and use a regulated power supply rated at 1.2A or above.

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



FEATURES

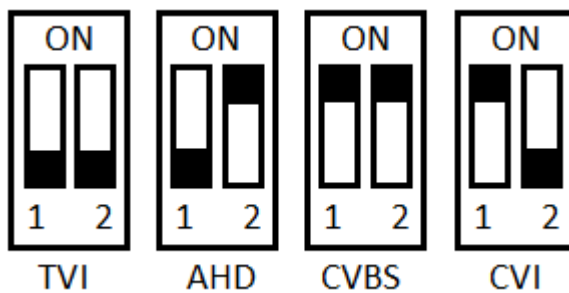
- 5MP Resolution
- TVI, CVI, AHD or Analogue Output
- 5-50mm Motorized Lens
- 80m IR Range
- Supports Wide Dynamic Range
- Mechanical (True Day-Night)

4 4-In-1 Technology

Selectable HD-TVI, HD-CVI, AHD and CVBS (Analogue) Output. As default the SEE885 is set to HD-TVI 5MP which will work with the, ZipSupa and ZipXtreme DVRs, however the output can be changed to AHD, CVI or CVBS if required. *Note: the output for CVI is 4MP*

This output can be changed either 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:-

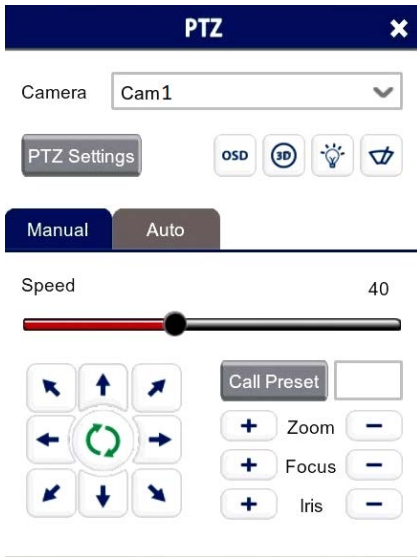


5 OSD Menu

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 + 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.

LENS	MANUAL			
		DC	MODE	INDOOR
				MAX SHU. 1/50000 1/50 FLK 1/200 1/400 1/1000 1/2000 1/5000 1/10000
				RETURN / SAVE & END
			OUTDOOR	MIN SHU. 1/25 1/50 FLK 1/200 1/400 1/1000 1/2000 1/5000 1/10000
				MAX SHU. 1/50000 1/50 FLK 1/200 1/400 1/1000 1/2000 1/5000 1/10000
				RETURN / SAVE & END
			IRIS SPEED	0 ~ 15 (Default 8)
				RETURN / SAVE & END
EXPOSURE	SHUTTER	AUTO / FLK (No Adjustment If DC Mode is selected)		
	AGC	0 ~ 15 (Default 14)		
	BRIGHTNESS	0 ~ 100 (Default 40)		
	D-WDR	OFF / AUTO		
	BACKLIGHT	OFF / BLC		
		BLC	LEVEL	LOW / MIDDLE/ HIGH
			AREA	POSITION & SIZE

			DEFAULT	(Defaults the above)		
			RETURN / SAVE & END			
	RETURN / SAVE & END					
WHITE BAL	ATW					
	AWC SET	(Sets Automatic White Balance Control)				
DAY & NIGHT	EXT	D - N (DELAY)	0 ~ 15 (Default 3)			
		N - D (DELAY)	0 ~ 15 (Default 3)			
		RETURN / SAVE & END				
	AUTO	D - N (AGC)	0 ~ 216 (Default 64)			
		D - N (DELAY)	0 ~ 15 (Default 3)			
		N - D (AGC)	0 ~ 215 (Default 10)			
		N - D (DELAY)	0 ~ 15 (Default 3)			
	RETURN / SAVE & END					
	COLOR (Permanently in colour)					
	B/W	IR SMART		ON / OFF		
		LEVEL	0 ~ 15 (Default 8)			
		AREA	POSITION & SIZE			
RETURN / SAVE & END						
RETURN / SAVE & END						
ADJUST	NR	2 DNR	LOW / MIDDLE / HIGH / OFF			
		3 DNR	LOW / MIDDLE / HIGH / OFF			
		RETURN / SAVE & END				
	SHARPNESS		LOW / MIDDLE / HIGH			
	COLOR GAIN	BLUE GAIN	0 ~ 10 (Default 7)			
		RED GAIN	0 ~ 10 (Default 7)			
		RETURN / SAVE & END				
	LSC		ON / OFF			
	MIRROR		OFF / MIRROR / V-FLIP / ROTATE			
	DPC	LIVE DPC	OFF / ON			
			AGC LEVEL	0 ~ 255 (Default 0)		
			LEVEL	0 ~ 100 (Default 50)		
		RETURN / SAVE & END				
		WHITE DPC	POS/ SIZE	POSITION & SIZE		
			START	STARTS SCAN		
			DPC VIEW	OFF / ON		
			LEVEL	0 ~ 60 (Default 0)		
			AGC	0 ~ 14 (Default 14)		
			RETURN / SAVE & END			
	RETURN / SAVE & END					
LANGUAGE		ENG / CHN 1 / CHN 2 / GER / FRA / ITA / SPA / POL / RUS / POR / NED / TUR / JPN				
OUTPUT MODE	FORMAT***	THD / CVBS / AHD / CHD				
	RESOLUTION	5 MEGA / 4 MEGA (4 MEGA only For CHD)				
	FRAMERATE	RT / NRT				
	VIDEO. OUT	NTSC / PAL				
	APPLY SET					
	RETURN / SAVE & END					
RETURN / SAVE & END						
AF	AF MODE	SEMI / AUTO / MANUAL				
	ONE SHOT AF	Press to detect focus point				
	TDN AF	OFF / ON				
	LENS INIT	Press to initialise lens				
	RETURN / SAVE & END					
Exit	SAVE & END					
	RESET					
	NOT SAVE					

5.1 Key Menu Settings

Exposure Mode - AUTO is set as default, it automatically 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 (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. Delay can be set which will instruct the camera to wait for a set length of time before switching. This accommodates for any temporary drops in light.

DNR (Noise 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 whereas 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.

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

6 Troubleshooting

6.1 Camera Rebooting / Turning Off

- A. Check the voltage of the camera (under load) if below 10.8V then move the power supply closer to the camera.
- B. For 12V DC cameras only ever use regulated power supply rated at above 750mA, 1A would be recommended. So that the camera is always receiving the correct supply.
- C. Use thicker gauge copper cabling to reduce the voltage drop.

6.2 Poor Quality Images

- A. Check the fly-lead is set to the correct output – see [4-In-1 Technology](#)^[3]
- B. If set to CVBS, then this is a low quality video output for legacy systems (Analogue), when using a 5 MegaPixel DVR or above then use another video format, like HD-TVI.
- C. Reset the camera menu via Zip Coaxitron – [OSD Menu](#)^[4]
- D. Check if your DVR supports 5 MegaPixel cameras.

6.3 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](#)^[3]
- B. Reset the camera menu via Zip Coaxitron [OSD Menu](#)^[4]
- C. Check the recorder supports 5 MegaPixel cameras.

6.4 NCD / No Image Displayed on Recorder

- A. Test that the camera has the correct voltage supplying it, this must be done with the camera connected so that there is load on the PSU. A 12V DC camera should have at least 10.5V DC connected to it.
- B. The camera can not function without the correct power supply. For 12V DC cameras only ever use regulated power supplies to ensure that the camera is always receiving the correct voltage.
- C. Ensure that the BNC – BNC lead that is connected between the camera and DVR has no shorts or open circuits.

7 General Maintenance

- Ensure that nothing is obscuring the field of view, position the camera to ensure the Lens can see clearly.
- Routinely clean the camera to prevent dust build up as this can effect the performance of the camera. We recommend a damp non-abrasive microfibre cloth.
- Check that the cameras are firmly attached.
- Check playback in the recorder to ensure the camera is recording properly.

8 Specification

Camera Model	SEE885
Image Sensor	1/2.7" Progressive CMOS
Resolution	5MP (HD)
Lens Type	5-50 mm motorized lens
Image Output	TVI (5MP/4MP) / CVI (4MP) / AHD (5MP/4MP) / CVBS (D1)
Min. Illumination	0 Lux (IR On)
Day/Night	Mechanical (True Day-Night)
Input Voltage	12V DC
Current Consumption	750mA
Signal to Noise Ratio	35dB
Gain Control	Automatic
Video Connection	BNC Socket
Power Connection	2.1mm DC Socket
WDR	Yes
Protocol	UTC
Finish	Matt Grey / White
Build	Metal
Shutter	1/25 s to 1/50,000 s
White Balance	Auto / Manual
Dimensions	167 x 90 x 93mm (Without Bracket)
IR Wavelength	850nm
IR Range	80m
IP Rating	IP66

9 Conditions

9.1 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.

9.2 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.

9.3 Copyright

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