Instruction Manual

2MP All-In-One 5-50mm Motorised Lens

xSEE882

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1 Introduction

The SEE882 has multi format HD modes for TVI, AHD, CVI and CVBS

In addition it comes in two colours, matt Grey & White. The SEE882 camera produces exceptional quality images using the 1/2.8" Progressive CMOS

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

The SEE882 has Coaxitron Control facility for changing the Motorised Zoom & Focus and also the OSD menu specifications via a ZipLite, ZipSupa and ZipXtreme DVRs.

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

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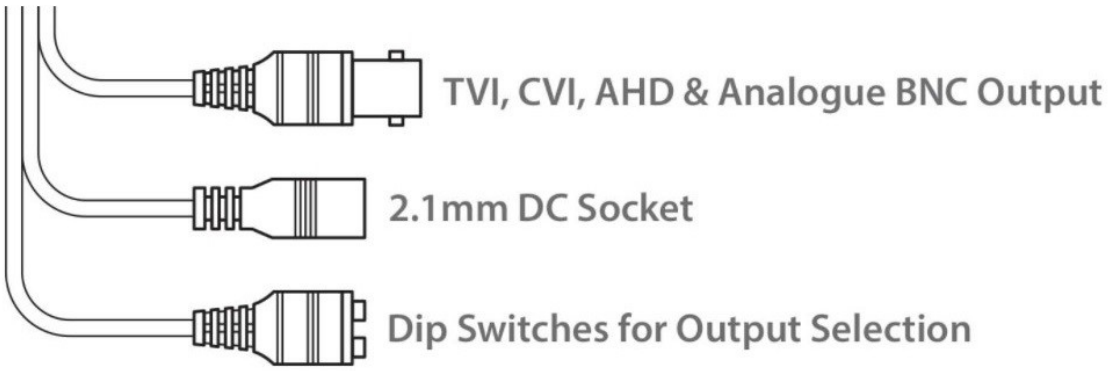
3 Connections, Dimensions & Key Features

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

- 2MP Resolution
- TVI, CVI, AHD or Analogue Output
- 5-50mm Motorized Lens
- 80m IR Range
- Supports Wide Dynamic Range
- Mechanical (True Day-Night)

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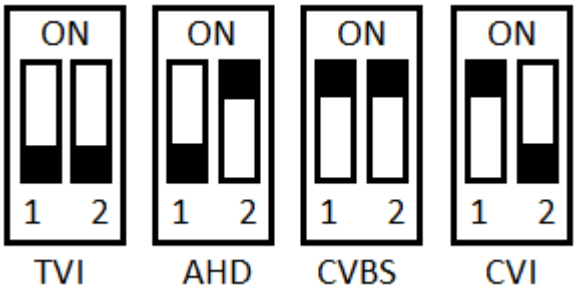
4 4-In-1 Technology

Selectable HD-TVI, HD-CVI, AHD and CVBS (Analogue) Output. As default the SEE882 is set to HD-TVI 2MP which will work with the, ZipLite, ZipSupa and ZipXtreme DVRs, however the output can be changed to AHD, CVI or CVBS if required.

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:-



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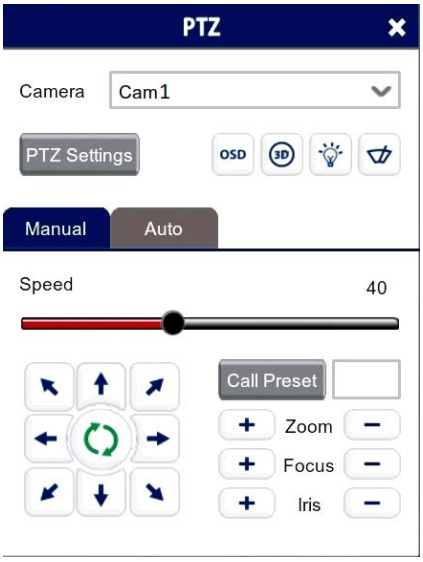
5 OSD Menu

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** (No Adjustment)				
EXPOSURE	SHUTTER	**AUTO** 1/25 1/50 FLK 1/200 1/400 1/1000 1/2000 1/5000 1/10000 1/50000 / x2 / x4 / x6 / x8 / x10 / x15 / x20 / x25 / x30			
	AGC	0 ~ 15 (Default **15**)			
	SENS-UP	**OFF**/ AUTO	SENS-UP	**x2** / x4 / x6 / x8 / x10 / x15 / x20 / x25 / x30	
			RETURN		
	BRIGHTNESS	0 ~ 100 (Default **40**)			
	D-WDR	**ON** / AUTO / OFF	LEVEL	0 ~ 8 (Default **2**)	
			RETURN		
	DEFOG	**OFF**/ AUTO	POS/SIZE	POSITION & SIZE	
			GRADATION	0 ~ 2 (Default **0**)	
			DEFAULT	(Defaults the above)	
			RETURN		
	RETURN				
BACKLIGHT	**OFF** / BLC	LEVEL	**MIDDLE** / HIGH / LOW		
		AREA	POSITION & SIZE		
		DEFAULT	(Defaults the above)		
		RETURN			
	HSBLC	SELECT	AREA **1** / 2 / 3 / 4	(Selects adjustment area)	
		DISPLAY	**ON** / OFF	POSITION & SIZE	
		BLACK MASK	**ON** / OFF		
		LEVEL	0 ~ 100 (Default **20**)		
		MODE	**NIGHT** / ALL DAY	AGC LEVEL	0 ~ 255 (Default **48**)
				RETURN	

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		DEFAULT				
		RETURN				
WHITE BAL	**ATW /**					
	AWC-SET /	(Sets Automatic White Balance Control)				
	INDOOR /					
	OUTDOOR /					
	MANUAL /	BLUE	0 ~ 100 (Default **50**)			
		RED	0 ~ 100 (Default **50**)			
		RETURN				
	AWB					
DAY & NIGHT	**EXT /**	D-N (DELAY)	0 ~ 60 (Default **3**)			
		N-D (DELAY)	0 ~ 60 (Default **3**)			
		RETURN				
	COLOR /					
	B/W	BURST	**ON** / OFF			
		IR SMART	**ON** / OFF	LEVEL	0 ~ 15 (Default **0**)	
				AREA	POSITION & SIZE	
			RETURN			
		RETURN				
NR	2DNR	**MIDDLE** / HIGH / OFF / LOW				
	3DNR	**MIDDLE** / HIGH / OFF / LOW				
	RETURN					
SPECIAL	CAM TITLE	**OFF** / ON	Use on screen keyboard			
	D-EFFECT	FREEZE	**OFF** / ON			
		MIRROR	**OFF** / MIRROR / V-FLIP / ROTATE			
		NEG. IMAGE	**OFF** / ON			
		RETURN				
	MOTION	**OFF** / ON	SELECT	AREA **1** / 2 / 3 / 4		
			DISPLAY	**ON** / OFF		
			SENSITIVITY	0 ~ 100 (Default **64**)		
			COLOR	**GREEN** / BLUE / WHITE / RED		
			TRANS	**1.00** / 0.75 / 0.25 / 0.00		
			ALARM	VIEW TYPE	**ALL** / OFF / BLOCK / OUTLINE	
				OSD VIEW	**ON** / OFF	
				ALARM OUT	**ON** / OFF	
				TIME	0 ~ 15 (Default **3**)	
				RETURN		
			DEFAULT			
	PRIVACY	**OFF** / ON	SELECT	AREA **1** / 2 / 3 / 4		
			DISPLAY	COLOR / OFF / MOSAIC / INV.		
			COLOR	WHITE / BLACK / RED / BLUE / YELLOW / GREEN / CYAN / USER		
			TRANS	**1.00** / 0.25 / 0.50 / 0.75		
			DEFAULT			
			RETURN			
	LANGUAGE	**ENG** / CHN1 / CHN2 / GER / FRA / ITA / SPA / POL / RUS / POR / NED / TUR				
	DEFECT	LIVE DPC	**OFF** / ON	AGC LEVEL	0 ~ 255 (Default **64**)	
				LEVEL	0 ~ 100 (Default **64**)	
				RETURN		
		WHITE DPC	**ON** / OFF	POS / SIZE	POSITION & SIZE	
				START	STARTS SCAN	

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				DPC VIEW	**OFF** / ON
				LEVEL	0 ~ 100 (Default **3**)
				AGC	0 ~ 14 (Default **8**)
				SENS-UP	**x6** / x8 / x10 / x15 / x20 / x25 / x30 / x2 / x4
				RETURN	
		BLACK DPC	**OFF** / ON	POS / SIZE	POSITION & SIZE
				START	STARTS SCAN
				DPC VIEW	**OFF** / ON
				LEVEL	0 ~ 100 (Default **100**)
				RETURN	
		RETURN			
	RS485	CAM ID	0 ~ 255 (Default **0**)		
		ID DISPLAY	**OFF** / ON		
		BAUDRATE	**38400** / 2400 / 4800 / 9600 / 19200 /		
		RETURN			
	RETURN				
ADJUST	SHARPNESS	**AUTO /**	LEVEL	0 ~ 10 (Default **6**)	
			START AGC	0 ~ 255 (Default **120**)	
			END AGC	0 ~ 255 (Default **255**)	
			RETURN		
		OFF			
	MONITOR	**LCD /**	GAMMA	USER / 0.45 ~ 1.00	
			BLUE GAIN	0 ~ 100 (Default **64**)	
			RED GAIN	0 ~ 100 (Default **64**)	
			RETURN		
		CRT	BLUE GAIN	0 ~ 100 (Default **56**)	
			RED GAIN	0 ~ 100 (Default **56**)	
			RETURN		
	LSC	**ON** / OFF			
	COMET	**OFF** / ON			
	OUTPUT MODE	NO ADJUSTMENT			
	RETURN				
AF	AF MODE	**SEMI** / AUTO / MANUAL			
	ONE SHOT AF	Press to detect focus point			
	TDN AF	**OFF** / ON			
	LENS INIT	Press to initialise lens			
	AD ADJUST	Press to Synchronise Auto focus points			
	RETURN / SAVE & END				
EXIT	**SAVE & END** / RESET / NOT SAVE				

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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 (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.

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

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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 2 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 2 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 2 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.

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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	SEE882
Image Sensor	1/2.8" Progressive CMOS
Resolution	2MP (HD)
Lens Type	5-50 mm motorized lens
Image Output	TVI / CVI / AHD / CVBS
Min. Illumination	0 Lux (IR On)
Day/Night	Mechanical (True Day-Night)
Input Voltage	12V DC
Current Consumption	750mA
Signal to Noise Ratio	40dB
Gain Control	Automatic
Video Connection	BNC Socket
Power Connection	2.1mm DC Socket
WDR	Yes
Protocol	UTC
Finish	Matt Grey / White
Build	Metal
Shutter	1/15 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

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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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