

# NiteDevil CAM190/192/194

These NiteDevil Cameras have Digital WDR functionality allowing improved picture quality in mixed lighting conditions. They are complimented with an OSD menu, allowing access via camera or RS485, privacy masking, digital zoom to 32x and adjustable NiteDevil settings. The cameras are supplied in three versions:

# CAM190 12v DC only CAM192 Dual voltage 12vDC/24vAC CAM194 240v AC



All 3 cameras provide a resolution of 600TVL in colour and 700TVL in b/w. These cameras come with many of the NiteDevil features including an OSD menu, the SENS-UP feature allowing minimum illumination down to an incredible 0.00019 Lux and a WDR option.

### **Features**

- ✓ 1/3" Sony Super HAD CCD 600/700 TVL ✓ Low Light 0.00019Lux
- ✓ Wide Dynamic Range setting
- ✓ 3 Lens Options
- ✓ Built-in OSD menu
- ✓ Privacy Masking
- ✓ Electronic Shutter
- $\checkmark$  Digital Zoom up to 32x

- - ✓ Maximum 2watts power consumption
  - ✓ SENS-UP auto function 2x 256x
  - ✓ Built-in 3DNR function
  - ✓ RS485 menu control
  - ✓ Motion Detection Alarm Function
  - ✓ Contrast & Sharpness adjustments

## **Powering the Camera**

### **CAM190**

The CAM190 requires a 12v DC regulated power supply providing a minimum of 140mA. When connecting to any 12v DC power supply, always use a regulated supply. The camera has a terminal connection. This camera is polarity sensitive so ensure that the positive and negative connections are correct. If incorrectly connected damage to the camera may result. The 12V DC cameras require a power supply that has a continuous rating of 140mA or higher per camera. It is recommended that you allow headroom per camera to be on the safe side especially taking into account any extra load created by adding an auto-iris lens (typically 10mA). The power supply you choose must be a well regulated one giving a smooth regulated 12V DC output and it is recommended that it should be rated at no less than 200mA.



WARNING - This power supply must not be a security type used in intruder alarms as the over voltage may damage the camera and void the warranty. The earthing arrangement of an intruder type alarm PSU may give rise to problematic "earth-loops" and poor voltage regulation can give poor/noisy image quality. We offer no technical support or warranty with the camera if you use a 13.8V intruder alarm PSU as it is contrary to the installation & usage instructions of the camera. The terminal strip will facilitate easier and faster power connection without the hassle of soldering. The terminal connection can be seen in the picture above. The 12V+ and -0v connections from the power supply must be connected correctly. If you have a 2.1mm jack plug connected to your power supply you will need to cut this off and use the bare wires to connect to the terminal strip. Note that the 12V positive is the wire that was connected to the centre pin of the jack plug and the 0V wire was connected to the outer case.



### <u>CAM192</u>

The CAM192 is a dual voltage camera allowing connection of 12vDC or 24vAC power supply. This camera is not polarity sensitive so the positive or negative can be connected either way round. The 12V DC cameras require a power supply that has a continuous rating of 140mA or higher per camera. It is recommended that you allow headroom per camera to be on the safe side especially taking into account any extra load created by adding an auto-iris lens

(typically 10mA). The power supply you choose must be a well regulated one giving a smooth regulated 12V DC output and it is recommended that it should be rated at no less than 200mA.

### <u>CAM194</u>

The CAM194 is a mains 240vAC controlled camera and a mains power cable is supplied.



CAM192



CAM194

### Fitting the Camera Lens



Fit the Auto Iris Direct Drive Lens connector to connection shown.

#### **Auto-Iris Direct Drive Connections**

Auto Iris type lenses require the 4-pin connector to be attached to the camera. It is important that this connector is wired correctly. If you bought the lens from SystemQ and it's a direct drive lens, this will be pre-wired and you can simply plug the lens into the camera.



#### C or CS Mount Lenses

Most lenses are available in 2 different mounting options - C mount and CS mount. CS mount lenses are now the most popular size as they are shorter and more compact than C mount lenses. Most cameras are now manufactured to accept CS mount lenses. Before fitting the lens you need to verify that you are using a CS mount lens with the camera. You can confirm this with your lens supplier or the literature that came with your lens, check the instructions or packaging to see if your lens is a C or a CS mount version. If your lens is a C mount type you can still fit it to the camera by following the instructions under the heading **Using a C Mount lens**.

#### Using a CS Mount lens

If you are using a standard CS mount lens you can screw the lens straight into the camera without the need for the C-CS adapter ring (supplied).



### NiteDevil Traditional Wide Dynamic

Adjusting the inner focus ring - Once you have fitted the lens, if you have a picture on the monitor but cannot correctly focus the lens by the fine focal adjust on the lens itself, you may need to alter the inner adjusting ring that is screwed into the end of the camera. To do this you will need a small Allen key.

This ring enables the lens to either "sit" a little closer or a little further away from the camera to get a sharp focused image when using lenses from different manufacturers. To adjust the inner focus ring you will need to slacken the ring by loosening the grub screw(s) with an Allen key. This is a trial and error process by moving the ring in or out say  $\frac{1}{2}$  turn then locking it again and trying to refocus the lens. It is possible (with common sense!) to work out whether the lens needs to be nearer or further away from the camera by watching for improvements in focus at each attempt.

**NOTE** – If it appears that the lens will never be in focus then it is possible that you are trying to fit a **C-mount** lens on the camera, not a **CS- mount** lens. If this is the case you will have to add the spacer ring to the lens that was provided free with the camera.

The spacer ring looks something like this:



#### Using a C Mount Lens

If you are using a C mount lens you will need to add the C-CS mount adapter ring. This ring effectively moves the C mount lens an extra 5mm away from the camera body to achieve the correct focusing of the lens. Once you have fitted the adapter ring you can carefully screw the lens to the camera. If the picture is out of focus, try focusing it in using the focus adjust on the lens itself. If you can nearly get the focus right but not quite (because the lens runs out of adjustment) then you probably need to adjust the inner focus ring with the Allen key. See **Adjusting the inner focus ring** above.

It is important that you never force a lens when it becomes tight on the camera or you may damage one or the other device. A **C-mount** lens fitted on a **CS-mount** camera may protrude too far into the camera and cause irreparable damage.

#### Setting Up an Auto Iris Direct Drive Lens for different Light Levels

The brightness setting in the menu determines when the IRIS of the lens opens and closes. It is important to set this correctly as if the brightness level is set too low, you may get satisfactory pictures during the day but at night not enough light can enter the camera giving poor quality pictures. The trick to setting up the brightness level is to set it up in the brightnest possible conditions, i.e. midday on a sunlight day and keep the IRIS open to its maximum without a too bright picture. This means at night in low light, the IRIS will be open as much as possible and give the best results.

To do this, follow these steps:

With the camera in the brightest light conditions that it will be expected to work,

1- Enter the LENS menu and set to MANUAL. The enter EXPOSURE menu, increase to 100% and then reduce level until the picture is okay. Do not adjust further. This will ensure that the iris is set to its widest setting.

2- Now return to the LENS menu and select DC. Then exit the menu. Once you have done the above the lens will restrict the light sufficiently in bright sunlight but open up to its maximum in low light giving the best night time performance.

Further details on the menu setup and operation are covered below.

### **Connecting Video**

The video out from the camera is provided from the BNC connector located at the rear of the camera. The camera's video signal is carried by a suitable cable (usually RG59 or similar) to the monitor or other video input, ie, of a switcher, quad, DVR etc. Remember that the Video out from the camera is like any other electrical circuit and requires two wires to complete the circuit. When using a co-ax type cable such as RG59 or similar, the outer braid of the co-ax provides the "OV GROUND" connection and the inner core provides the "Video" connection. A typical connection is shown as follows:





It is recommended that when you are first setting up the cameras that you use a short BNC-BNC cable to link the camera directly to the monitor and to set it up at the same time. This allows you to both understand the camera and get the very best out of this great product, as you will be able to adjust the camera whilst looking at the monitor screen. Obviously

This camera has an RS485 terminal connection on the rear of the camera to allow the camera menu to be updated using an RS485 keyboard or using the PTZ option in a DVR. You will need to use the direction keys, Zoom and Focus controls to edit the menu. Alternatively you can change the menu settings using the menu control buttons on the rear of the camera.

### **Precautions**

Do not install the camera in extreme temperature conditions. Only use the camera where temperatures are between -20 degrees centigrade and +50 degrees centigrade.

Never install the camera in damp or humid conditions. This can affect image quality.

This camera requires stable lighting conditions to operate effectively.

whilst you are setting up the camera, it does need to be powered!

Do not touch the front lens of the camera. Fingerprints can stain the lens glass.

The camera must not be placed directly facing the sun or strong light. This may damage the camera CCD.

Never expose the camera to rain or liquids. These will corrode the camera electronics.

Do not subject the camera to vibration as it may cause camera malfunctions.

Only use this camera in a housing if used externally.

<u>Menu Sett</u>	ings
1. LENS	DC
2. EXPOSURE	
3. WHITE BAL	AWB
4. DAY NIGHT	AUTO
5. 3DNR	ON 🛋
6. SPECIAL	
7. ADJUST	
8. RESET	
9. EXIT	

To display the OSD menu press the SET button. Menu closes when no operation.

**SET BUTTON**: Displays menu on the screen. Press button down to confirm status or after changing a selected item.

**UP/ DOWN BUTTON:** Used to move cursor up and down to select a menu item.

**LEFT & RIGHT BUTTONS:** Moves cursor left and right or change the value of a selected item.



FUNCTION MENU STRUCTURE				
LENS	∎DC	■MANUAL		
EXPOSURE	■SHUTTER	■BRIGHTNESS	■AGC	
	■SENSE-UP	■BLC / HSBLC	■D-WDR	
WHITE BAL	∎AWB	■AWC- SET	■MANUAL	
	∎INDOOR	∎OUTDOOR	∎ATW	
DAY NIGHT	■COLOUR	∎AUTO	■EXT	∎B/W
3 DNR	∎ON	∎OFF		
SPECIAL	■CAM TITLE	■D-EFFECT	■RS485	■MOTION
	■PRIVACY	∎SYNC	■LANGUAGE	
ADJUST	■SHARPNESS	■BLUE	■RED	
RESET	■FACTORY			
EXIT				

Doc XCAM190



# NiteDevil Traditional Wide Dynamic

**NOTE:** All menu items with the icon require the SET button to be depressed. If - - is displayed then feature is unavailable on this camera.



LENS

When the SETUP menu screen is displayed, select LENS by using the UP & DOWN buttons so that the arrow selects LENS.

Select the connected type by using the LEFT & RIGHT buttons.

Selecting MANUAL selects manual lens

Selecting DC selects Auto Iris Lens. When MANUAL is selected you can select the brightness control by pressing the SET button. Set range between  $0 \sim 100$ . Then select DC.



EXPOSURE		
SHUTTER	1/250	
BRIGHTNESS		
AGC	MIDDLE	
SENSE-UP	OFF	
BLC	OFF	
D-WDR	INDOOR	
RETURN	RET 🚅	

SHUTTER AUTO, 1/50, FLK, 1/250, 1/500, 1/2000, 1/5000, 1/100000, 1/100000, x256, x128, x64, x32, x16, x8, x4, x2

Select EXPOSURE by using UP & DOWN buttons and then select desired mode.

AUTO Select this mode to control the shutter speed automatically.

FLK Select this mode if flickering occurs on screen.

**BRIGHTNESS** (1 - 100) You can control the brightness by using the LEFT & RIGHT buttons in Manual lens mode. If using a DC lens, switch LENS to manual, adjust brightness, then return to LENS and select DC.

### AGC OFF / LOW / MIDDLE / HIGH

Set AGC from low to high gain. Note that the higher the gain level, the brighter the screen but the higher noise level. Note that if AGC shows - - - then RESET the camera.

### SENSE-UP OFF / AUTO 🚅 x2 / x4 / x8 / x16 / x32 / x64 / x128 / x256

When it is dark the camera automatically detects the light level and tries to compensate by maintaining a clear picture. **OFF** The option is deactivated when the OFF option is selected or when AGC is OFF or DAY&NIGHT is OFF. **AUTO** You can adjust brightness by increasing/decreasing the shutter speed ( $x_2 \sim x_{256}$ ) Note that noise can be amplified as SENSE-UP in increased.



## BLC OFF/BLC 4 / HSBLC 4

Backlight compensation allows you to get a clear picture even when objects are in a strong backlight.

#### BLC 🚅

Selecting BLC and pressing SET button enters the BLC menu.

#### **BLC/HSBLC MENUS**

GAIN DEFAULT	LOW
LEFT/RIGHT	I
WIDTH	<u> </u>
TOP/BOTTOM	<u>          I                          </u>
HEIGHT	<u>I</u>
RETURN	

This menu allows a selected area of the picture to be viewed more clearly in varying light conditions.

#### GAIN LOW / MIDDLE / HIGH

Select the level of gain by selecting low, middle or high.

**DEFAULT** Press SET button to select default option.

The **LEFT/RIGHT, WIDTH, TOP/BOTTOM** and **HEIGHT** are used to create a window and place it in the picture view using BLC. When there is a bright light e.g headlights on a car, using the **HSBLC** menu may compensate for this condition so allowing you to view a car number plate that would otherwise be obliterated by the light level.

#### D-WDR OFF / INDOOR / OUTDOOR

Digital Wide Dynamic Range allows de-saturation of light in a single pixel so providing the mean light level overall. This allows a scene that may include for example objects that show light and shade and then compensates by providing an overall balanced light view. WDR can be set to INDOOR, OUTDOOR or OFF.



#### WHITE BAL ATW / AWB / AWC SET / MANUAL / INDOOR / OUTDOOR

**ATW** Auto Tracking White Balance. Suitable for viewing objects with changing colour temperature. Select when colour temperature between 2,500°K and 9,800°K.

**AWB** Auto White Balance. This uses stored settings for white balance and is most suitable where there is little change in light source.

**AWC SET** The auto white-balance control analyses the incoming light and estimates the best camera setting for pleasing colors.

**MANUAL** This option allows the blue and red colours to be manually set.

**INDOOR** Select this when the colour temperature is around 3,100°K. **OUTDOOR** Select this when the colour temperature is around 5,100°K.

#### **SPECIAL NOTE:**

In the event that problems are found with the white balance settings, it is recommended that the AWC mode is selected. These problems can be:-

(i) When the colour temperature in the environment is beyond the control range.

(ii) If the camera is situated close to a fluorescent light white balance may become unstable.



**DELAY** The seconds before the switch from one mode to the next mode.

 $\ensuremath{\textbf{S-LEVEL}}$  The setting of the brightness illumination before switching from colour to b/w

E-LEVEL The setting of the brightness illumination before switching from b/w to colour

**EXT** This deactivates the EXT function.

**BW** This option will always display in black and white.

**SPECIAL NOTE:** You cannot control the DAY/NIGHT menu when AGC in the EXPOSURE menu is set to OFF. If it is, then DAY and NIGHT mode will operate only in COLOUR mode.

MENU SETTINGS		
1. LENS	MANUAL	
2. EXPOSURE		
3. WHITE BAL	AWB	
4. DAY NIGHT	AUTO	
5. 3DNR	ON 🗲	
6. SPECIAL		
7. ADJUST	a di la calcularia de la c	
8. RESET	<b>a</b>	
9. EXIT	<b>a</b>	

3DNR OFF / ON

Digital Noise Reduction reduces the background noise in a low light environment.

Select ON and press SET button to enter 3DNR menu.

	3DNR	
LEVEL		56
RETURN		RET 🗲

**OFF** Deactivates 3DNR. Noise is not reduced.

**ON** Activates 3DNR so that noise is reduced.

### **SPECIAL NOTE:**

You cannot set the 3DNR to ON or OFF when the AGC mode in the EXPOSURE menu is set to OFF. When adjusting the noise reduction level in this mode, the higher the setting the more the noise level will be reduced but the more likely ghosting will occur.





**CAM TITLE** Allow the display of a 15 character camera title displayed on the monitor.



### CAM TITLE

If you wish to display the camera title you must switch camera title to ON.

Note that if the CAM TITLE is OFF no title is displayed on the monitor even if one is entered. Move up and down buttons to select CAM TITLE and switch it ON. Then press the SET button and move to the required character using the direction buttons and press the SET button to select. Repeat to select up to 15 characters. If you move to CLR and press the SET button all characters are cleared.

To edit a character select the character bottom left arrow and press SET button, move the cursor over the character to be edited, then select the character required and press the SET button. Then select POS to position cam title, press SET, move to the position required and select END. Press SET again to return to SPECIAL menu.

SPECIAL		
1. CAM TITLE	OFF / ON	
2. D-EFFECT		
3. RS485		
4. MOTION	OFF	
5. PRIVACY	OFF	
6. SYNC	INT	
7. LANGUAGE	ENGLISH	
8. RETURN		

	D-EFFECT
FREEZE	OFF / ON
MIRROR	MIRROR / V-FLIP / ROTATE OFF
D-ZOOM	OFF / ON 🛋
GAMMA	0.45
NEG IMAGE	OFF / ON
RETURN	RET 🚅



#### **D-EFFECT**

This option covers the display effects that can be selected.

#### FREEZE OFF / ON

This option if set to ON will freeze current picture. Select OFF to revert to normal video

#### MIRROR MIRROR / ROTATE / V-FLIP / OFF

This option allows the normal video displayed to be switched to vertical flip, horizontal flip, both or none.

MIRROR	This flips the camera view vertically on the screen.
ROTATE	This flips the camera view horizontally on the screen.
V-FLIP	This flips the camera horizontally and vertically on the screen.
D-ZOOM	<b>OFF / ON This option switches on digital zoom</b>
GAMMA	The standard value is 0.45 The values $0.05 \sim 1.00$ can be set.
NEG IMAGE	<b>OFF / ON</b> A colour negative image can be set.

**RETURN** Returns to the SPECIAL menu.



		]
	SPECIAL	R\$485
1. CAM TITLE	OFF / ON	
2. D-EFFECT		CAM ID 1
3. RS485		ID DISPLAY 🚅
4. MOTION 5. PRIVACY	OFF OFF	BAUDRATE 2400
6. SYNC	INT	RETURN 🗲
7. LANGUAGE	ENGLISH	
8. RETURN	<b>ال</b> ب	

The RS485 option allows you to control these menu settings by connecting a CAT5 matched pair to the RS485 connections on the back of the camera and the other end of the cable to an RS485 keyboard controller or a DVR that has PTZ functionality. Ensure that the polarity is correct to the control device. On the DVR you will need to connect to the T+ and T- RS485 transmit connections.



In order to see the camera menu it will be necessary to set the camera ID number and the baud rate. The camera is set to the Pelco-D protocol and this cannot be changed. The baud rate is usually set to 2400 baud. This will give the longest distance coverage. These settings will have to be reflected in the control device, whether it is a keyboard or a DVR.

Note that you need to check that the DVR used has this functionality.



Note if using the Alien DVR then by selecting the PTZ option and clicking on ZOOM+ this will display the menu. Use the up and down arrow keys to locate an option and use the right arrow key or ZOOM+ to select option.



### MOTION

Motion can be detected in 1 - 4 areas. You can select 1-4 areas in SENSITIVITY setting. To see the MOTION DETECTION message displayed on the monitor, MOTION VIEW must be set.

**MOTION** This option allows motion detection to be set and to display MOTION DETECTION on the monitor. An output on the camera allows a closed contact to be made by using the M/D OUT and ground.



AREA SELECT 1 ~ 4 Select the area required. AREA DISPLAY ON / OFF Determines whether to use the motion area selected in SENSITIVITY.

LEFT/RIGHT	Determines the vertical axis for area.
WIDTH	Adjusts the selected vertical area.
<b>TOP/BOTTOM</b>	Determines the horizontal axis for area.
HEIGHT	Adjusts the selected horizontal area.
SENSITIVITY	You can select up to 4 areas. The higher the sensitivity the smaller the change to initiate motion detection.
MOTION VIEW	If you set this option to ON you can select an area colour and display MOTION DETECTION on the monitor.

**RETURN** Return to SPECIAL menu.



Use the M/D (Motion Detection) and G (Ground) connection if you wish to use the motion alarm switch.



# NiteDevil Traditional Wide Dynamic

OFF/ON
OFF OFF
INT ENGLISH

PRIVACY ON/OFF

Allows an area on screen to be hidden.

PRIVACY				
AREA SELECT	AREA 1 ~ 8			
AREA DISPLAY	ON / OFF			
LEFT / RIGHT	51			
WIDTH	42			
TOP / BOTTOM	38			
HEIGHT	30			
COLOUR	34			
RETURN	END 🗲			

AREA SELECT 1 ~ 8 Select the area required. AREA DISPLAY ON / OFF Determines whether to use the area selected in AREA SELECT.

LEFT/RIGHT	Determines the vertical axis for area.
WIDTH	Adjusts the selected vertical area.
TOP/BOTTOM	Determines the horizontal axis for area.
HEIGHT	Adjusts the selected horizontal area.
COLOUR	You can select area colour from $0 \sim 15$ .

**RETURN** Return to SPECIAL menu.

SPECIAL				
1. CAM TITLE	OFF / ON 🚅			
2. D-EFFECT				
3. RS485				
4. MOTION	OFF			
5. PRIVACY	OFF			
6. SYNC	INT			
7. LANGUAGE	ENGLISH			
8. RETURN	<b>ک</b> ه			

**SYNC INT** This option is not selectable.

# LANGUAGE

English, Chinese or Japanese.

If you change this you can work out how to return to English by selecting option 7.

**RETURN** Returns to SPECIAL menu.



MENU SETTINGS				
1. LENS	MANUAL			
2. EXPOSURE				
3. WHITE BAL	AWB			
4. DAY NIGHT	AUTO			
5. 3DNR	ON 🚅			
6. SPECIAL	<b>A</b>			
7. ADJUST	<b>ک</b> ه			
8. RESET				
9. EXIT				



#### ADJUST

This option is used to improve the sharpness of the picture and balance the blue and red colour.

#### SHARPNESS

This sets the sharpness by moving the direction keys to right or left. Parameter ranges from  $0 \sim 31$ .

#### BLUE

This sets the overall blue hue. Parameter ranges from  $0 \sim 100$ .

#### RED

This sets the overall red hue. Parameter ranges from  $0 \sim 100$ .

### RETURN

This returns to the main menu.





This option resets the camera to factory defaults.

**RETURN** Returns to main menu

### EXIT

This saves the changes made and exits the main menu.



# **TECHNICAL SPECIFICATIONS**

FUNCTION	CAMERA MODEL					
Camera Model	CAM190	CAM192	CAM194			
Imaging Sensor	1/3" SONY Super HAD CCD 11					
Signal System	NTSC: 525 Lines / PAL: 625 Lines					
Scanning System	2:1 Interlace					
Scanning Frequency	H:15.625Hz / V:50Hz					
S/N Ratio	More than 52dB (AGC Off)					
Horizontal Resolution	600 TVL (Colour) / 700 TVL (B/W)					
Video Output Level	1.0 vp~p (75 ohm, composite)					
Minimum Illumination	Colour: 0.03	Colour: 0.03Lux(50IRE@F1.2), 0.00019(Sens-up 256x)				
Sync System	Internal					
On Screen Display	Built-in (Multi-language support)					
Electronic Shutter Speed	Auto/FLK					
	PAL: 1/50sec ~ 1/100,000sec					
White Balance	AWB / AWC-Set / Manual / Indoor / Outdoor / ATW					
Backlight Compensation	BLC / HSBLC / Off					
D-WDR	Indoor / Outdoor / Off					
Gain Control	Low / Middle / High / Off					
Adjust	Contrast / Sharpness / CB_Gain / CR_Gain (Level Adjustable)					
Language	Korean / English / Chinese / Japanese (selectable)					
Camera Title	On / Off (Selectable)					
Day & Night	Auto / B.W / Colour (selectable) / EXT					
Digital Zoom	On / Off $(0x \sim 32x)$					
Motion Detection	On / Off (4 zone selectable) & external closed contact					
Privacy Masking	On / Off (8 zone selectable)					
3DNR Digital Noise Reduction	On /Off (Selectable)					
Sens-up (Frame Integration)	On / Off (Selectable limit ~ 256x)					
D-Effect	Freeze / Mirror / D-Zoom / Gamma / Neg. Image					
RS485		Menu Control				
Supplied Voltage	12vDC	12vDC / 24vAC	240vAC			
Power Consumption	140mA / 2.0W					
Infra Red Sensitive	Yes					
Dimensions	65mm x 65mm x 127mm excluding lens					
Weight	Approx. 50g					

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