

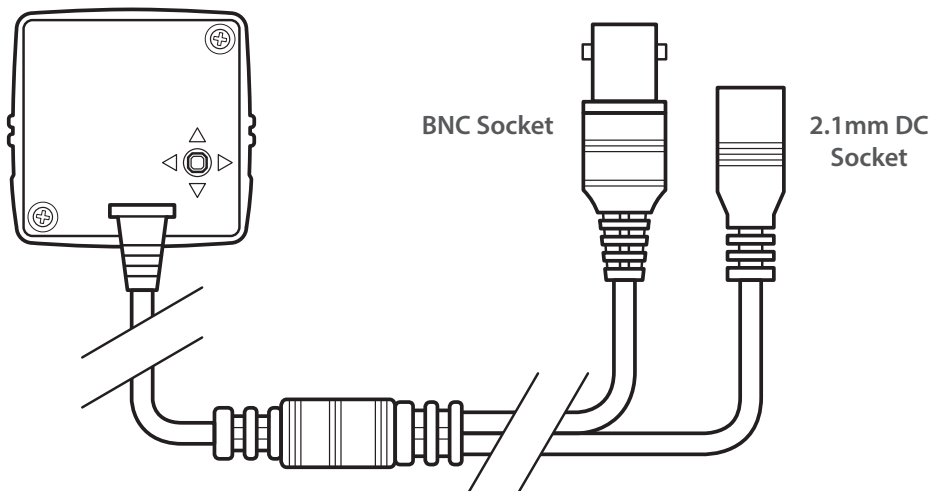


Miniature High Res Covert Modules

NiteDevil high resolution covert camera module with on screen display for mirror, privacy & motion detect functions. The light sensitivity of the NiteDevil is so good that it can retain a colour picture in very low light conditions making it ideal for dark and low light applications.

Connecting The Camera

The module cameras are supplied with a fly-lead which has moulded connections for video and power. There is a BNC socket for connecting the video and standard 2.1mm DC socket for connecting the power.



Powering The Camera

The NiteDevil module cameras require a regulated 12V DC power supply providing 90mA. You should always allow additional headroom to account for any extra loads. As a rule of thumb you should add approximately 30% on top of the minimum current consumption of the camera. Taking this into account we recommend a regulated 12V DC PSU providing no less than 120mA.

Features

- 700TVL Day / 800TVL Night
- 0.00019 Lux (Sens-up)
- NiteDevil Technology
- Up The Co-ax Telemetry
- Wide Dynamic Range
- Smart Digital Zoom
- Mounting Bracket Included
- Less Than 4cm Wide

Specification

FUNCTION	SPECIFICATION
CCD	Sony ICX-811
Resolution	700TVL Day / 800TVL Night
Lens	3.6mm Board
Min. Illumination	0.00019 Lux (Sens-up)
Video Output	1v p ~ p, 75Ω
Video Connection	BNC
Power	12vDC (± 10%)
Current	90mA
Power Connection	2.1mm Socket
S/N Ratio	More than 52dB (AGC Off)
Gain Control	Automatic
Dimensions	36.5 x 36.5 x 30mm

Options Available

PART CODE	DESCRIPTION
CAM250	3.6mm Board Module

Other Products To Consider



Up The Co-ax In-line Controller
REM088



1080pTVI 3.6mm Board Lens Camera
SEE905

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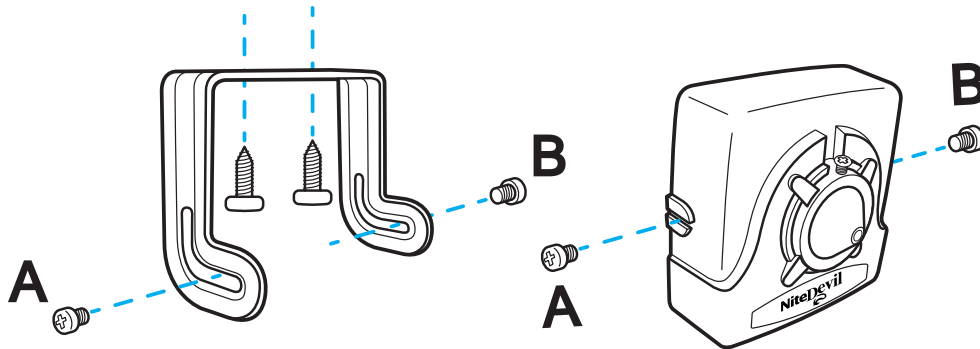
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Mounting The Camera

A small mounting bracket is provided with all of our module cameras.

To install the bracket secure the base of the bracket to the mounting surface using the two larger screws. Next screw through the openings in the side of the bracket and into the small holes on either side of the camera housing.

The camera and bracket can both be manipulated after installation. Simply loosen the two screws in the base of the bracket or sides of the camera, re-position and then re-tighten the screws.



Accessing The Camera's Menu

The camera's menu system can be accessed and controlled in two ways.

The first method is using the joystick on the rear of the camera. The joystick is moved up and down to navigate through the menu system and left and right to change values. Selections are confirmed by pressing the joystick down.

The second method is to use an up the Co-ax controller which can be done whilst next to the DVR. The up and down buttons are used to navigate through the menu system with the left and right buttons used to change variables. The centre button is used as the 'SET' key to confirm selections.

Up The Co-ax Menu Control

Up the Co-ax otherwise known as UTC is a method of controlling the camera's OSD using the Co-ax cable. This is achieved using a REM088 in-line controller. The big benefit of configuring a camera via UTC is that it can be done next to the DVR and monitor. The Co-ax cable carrying the camera's video is simply connected to the controller which is then connected to the DVR. Once the camera has been setup, the controller can be removed and the camera is then connected to the DVR as normal.

For more information on menu options and what they do see online tip 295 ▶▶▶



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OSD Menu

NOTE Default settings are shown in blue.

MAIN MENU	SUB MENU	OPTION
LENS		MANUAL
		MANUAL: 1. BRIGHTNESS: 1 ~ 100 (50)
EXPOSURE	SHUTTER	AUTO / FLK / MANUAL / 1/50
		MANUAL: 1. LEVEL: X2 ~ X256 / FLK / 1/50 ~ 100000 (1/50)
	AGC	OFF (DAY & NIGHT COLOUR) / LOW / MIDDLE / HIGH
	SENSUP	AUTO / OFF
		AUTO: 1. SENSUP: X2 ~ X256 (8)
BACKLIGHT		OFF / DWDR / BLC / HSBLC
	DWDR:	1. LOW LEVEL: 0 ~ 5 (5) 2. HIGH LEVEL: 0 ~ 15 (3)
	BLC:	1. VALUE: LOW / MIDDLE / HIGH 2. AREA: SINGLE / DOUBLE (POSITION, SIZE) 3. DEFAULT
	HSBLC:	1. GAIN: 0 ~ 100 (50) 4. DEFAULT 2. MODE: NIGHT ONLY / ALL DAY 5. M.SKIP AREA: OFF / ON (ON: POSITION, SIZE) 3. MASK LEVEL: 0 ~ 100 (70)
WHITE BAL		ATW / AWB / AWC → SET / MANUAL
	MANUAL:	1. BLUE: 0 ~ 100 (30) 3. RED: 0 ~ 100 (20)
DAY & NIGHT		AUTO / EXT / B/W / COLOUR
	AUTO:	1. DELAY: 0 ~ 15 (5) 3. N → D (AGC): 0 ~ 239 (130) 2. D → N (AGC): 16 ~ 255 (210)
	EXT:	1. DELAY: 0 ~ 15 (0)
	B/W:	1. BURST: OFF / ON 3. IR LED: ON / OFF 2. IR SMART: OFF / ON ON: 1. VALUE: 0 ~ 100 (50) 2. AREA: (POSITION, SIZE) 3. IR DWDR: OFF / 1 ~ 15
SMART 3D NR		ON / OFF
	ON:	1. VALUE: 1 ~ 200 (80) 3. SMART LEVEL: 1 ~ 200 (200) 2. SMART NR: OFF / ON 4. SENSITIVITY: 0 ~ 100 (40)
F-DNR		OFF / MANUAL / AUTO
	MANUAL:	1. LEVEL: 0 ~ 31 (10) 3. EDGE GAIN: 0 ~ 10 (3) 2. COLOUR GAIN: 0 ~ 10 (3) 4. GAMMA: 0.05 ~ 1.00 (0.55)
	AUTO:	1. DETECT LEVEL: 0 ~ 5 (3)
FUNCTION		FOR THE FUNCTION MENU SEE PAGE 4
EXIT		SAVE / RESET / CANCEL

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Function Menu

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MAIN MENU	SUB MENU	OPTION	
MOTION		OFF / ON	
	ON:	1. AREA: 1 ~ 4 (1) 2. AREA DISPLAY: ON / OFF (ON: POSITION, SIZE) 3. VALUE: 0 ~ 100 (95) 4. MOTION VIEW: ON / OFF	
PRIVACY		OFF / ON	
	ON:	1. AREA: 1 ~ 8 (1) 2. AREA DISPLAY: ON / OFF (ON: TOP LEFT, TOP RIGHT, BTM LEFT, BTM RIGHT, POSITION) 3. COLOUR: 0 ~ 15 (10) 4. TRANSPAR: 0 ~ 3 (3)	
D-EFFECT	D-ZOOM	OFF / ON	
		ON:	1. RANGE: X1.0 ~ X32.0 (X2.0) 2. PAN: -100 ~ 100 (0) 3. TILT: -100 ~ 100 (0)
	SMART D-ZOOM	OFF / ON	
		ON:	1. RANGE: X2.0 ~ X5.0 (X2.0) 2. POSITION: POSITION 4. TIME: 0 ~ 15 (3) 5. SENSITIVITY: 0 ~ 100 (80)
	DIS	OFF / ON	
	FREEZE	OFF / ON	
	MIRROR	OFF / MIRROR / V-FLIP / ROTATE	
	NEG. IMAGE	OFF / ON	
IMAGE ADJ	SHARPNESS	1. 0 ~ 31 (20)	
	MONITOR	CRT	1. PED LEVEL: 0 ~ 63 (28) 2. COLOUR GAIN: 0 ~ 255 (128)
		LCD	1. GAMMA: 0.05 ~ 1.00 (0.65) 2. PED LEVEL: 0 ~ 63 (28) 3. COLOUR GAIN: 0 ~ 255 (128)
	LENS SHADING	OFF / ON	
		ON	1. LEVEL: 0 ~ 60 (40) 2. H-CENTER: 0 ~ 255 (128) 3. V-CENTER: 0 ~ 255 (128)
	DEFECT	1. SENSUP: X4 ~ X128 (X16) 2. DIFF: 0 ~ 3 (1) 3. THRESHOLD: 0 ~ 4 (2) 4. START	
COMM ADJ	CAM TITLE	OFF / ON	
		ON :	SET CAM TITLE
	PROTOCOL	PELCO-D / PELCO-P / SPD-S / DONG YANG / NIC P	
RS485	1. CAM ID: 1 ~ 255 (1) 2. ID DISPLAY: OFF / ON (ON: POSITION) 4. BAUDRATE: 2400 / 4800 / 9600 / 19200 / 38400 / 57600		
SYNC		1. INT	
LANGUAGE		ENGLISH / KOREAN / JAPANESE / CHINESE / CHINESE2 / RUSSIAN / FRENCH / SPANISH / ITALIAN / PORTUGUESE / DUTCH / GERMAN / POLISH / TURKISH / HEBREW / ARABIC	

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Fault Finding

The table below describes common problems and possible solutions.

Fault	Possible Cause	Possible Solution
Interference On The Camera Picture	Poor or inadequate cabling or an unregulated or poorly regulated power supply.	Make sure you are using a regulated 12V DC power supply.
No Picture	The camera cannot function without the correct working power supply.	<p>Step 1 Test that the camera has the correct voltage supplying it, you must do this with the camera connected so that there is load on the PSU. The camera should have at least 10.5V DC connected to it.</p> <p>Step 2 Check there is and image at the camera end with a test monitor. If there is a picture here but not at the DVR it could be one of the following:</p> <p>A. Video loss in Composite cable as run too long usually you would get a picture up to aroun 120mtrs (Remedied by fitting a video amp).</p> <p>B. Ensure that the BNC - BNC lead that you connect between the camera and monitor has no shorts or open circuits. If you are making your own lead, don't forget the lead must have two wires connected to complete the circuit, Video and Ground.</p> <p>C. No Video signal down CAT5 or CAT5+2. Check you have used a "pair of cores" not individual cores from different pairs.</p>
One Camera Picture Overlaid On Another Using CAT5	Camera cores and pairs mixed up.	Check you have used a "pair of cores" not individual cores from different pairs.
The Picture's Colour Changes Constantly	Fluorescent lighting emits an electromagnetic field which can cause colour roll.	Move the camera further away from any fluorescent lighting.

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