



Features

- 720 TVL
- Externally Rated IP66
- 2 Powerful IR Guns
- RS485 & Up The Co-ax Control
- Cable Managed Bracket
- 80m IR Range
- Super Wide Dynamic Range
- 8-20mm Manual Zoom Lens
- 2 Mega Pixel Lens

Specification

FUNCTION	SPECIFICATION
CCD	1/3" Sony Super HAD II
Resolution	720TVL
Lens	8-20mm Manual Zoom
Min. Illumination	0.001Lux (0Lux IR On)
Video Output	1v p ~ p, 75Ω
IR LEDs	36 + 2 High Power IR Guns
IR Range	Up to 80m
Power/Current	12vDC (± 10%) 1A
Power Connection	2.1mm Socket
S/N Ratio	More than 52dB
Gain Control	Automatic
Operating Temp.	-10°C ~ +50°C
Dimensions	255 x 144 x 86mm

Futuristic Camera With IR Guns, WDR, RS485 & UTC

The CAM890U is an external anti-vandal camera with two additional "IR Guns" providing useful additional illumination, helping the camera see up to an impressive 80m range. Ideal for low light surveillance in businesses and homes.

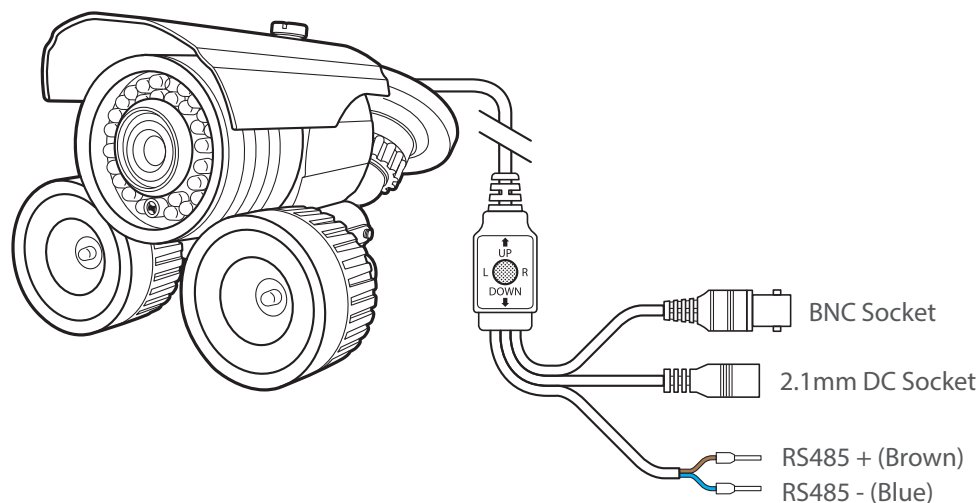
Mounting The Camera

The camera is for outdoor mounting on a wall or under a lintel.

Powering The Camera

The CAM890 requires a 12V DC regulated power supply and has a standard 2.1mm DC socket for connecting the power. 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 1A, add at least 30%, so use a power supply of around 1.5A.

Connecting The Camera To Control Equipment



Options Available

PART CODE	DESCRIPTION
CAM890UG	720TVL IR Gun Camera Grey
CAM890US	720TVL IR Gun Camera Silver
CAM890UW	720TVL IR Gun Camera White

Other Products To Consider



720TVL External IR camera With 2 IR Guns & Real Wide Dynamic Range
CAM892U



2.8-12mm Vari-focal 700TVL Dome Camera With RS485 OSD Control
CAM520W

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Accessing The Camera's Menu

The camera's menu system can be accessed and controlled in three ways. The first method is using the in-line joystick on the camera's video lead. The second method is to use an up the Co-ax controller which can be done whilst next to the DVR. The third method is via RS485 control equipment such as a keyboard or DVR.

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.

OSD Menu

MAIN MENU	SUB MENU	OPTION
LENS		DC / VIDEO / MANUAL
		DC: 1. BRIGHTNESS: 1 ~ 100 3. RETURN 2. IRIS SPEED: 1 ~ 5
		MANUAL: 1. BRIGHTNESS: 1 ~ 100 2. RETURN
EXPOSURE	SHUTTER	1/50, 60 / AUTO / FLK / MANUAL
		MANUAL: 1. LEVEL: X2 ~ X256 ~ 1/50, 2. RETURN 60 ~ 100000
	AGC	OFF (DAY & NIGHT COLOUR) / LOW / MIDDLE / HIGH
	SENSUP	OFF / AUTO
		AUTO: 1. SENSUP: X2 ~ X256 2. RETURN
BACKLIGHT		OFF / DWDR / BLC / HSBLC
		DWDR: 1. LOW LEVEL: 0 ~ 5 3. RETURN 2. HIGH LEVEL: 0 ~ 15
		BLC: 1. VALUE: LOW / MIDDLE / HIGH 3. DEFAULT 2. AREA: SINGLE / DOUBLE 4. RETURN (POSITION, SIZE)
		HSBLC: 1. GAIN: 0 ~ 100 4. DEFAULT 2. MODE: NIGHT ONLY / 5. M.SKIP AREA: ON / OFF ALL DAY (ON: POSITION, SIZE) 3. MASK LEVEL: 0 ~ 100 6. RETURN
WHITE BAL		ATW / AWB / AWC → SET / MANUAL (BLUE, RED)
		MANUAL: 1. BLUE: 0 ~ 100 3. RETURN 2. RED: 0 ~ 100
DAY & NIGHT		AUTO / EXT / B/W / COLOUR
		AUTO: 1. DELAY: 0 ~ 15 3. N → D (AGC): 0 ~ 239 2. D → N (AGC): 16 ~ 255 4. RETURN
		EXT: 1. DELAY: 0 ~ 15 2. RETURN
		B/W: 1. BURST: ON / OFF 3. IR LED: ON 2. IR SMART: ON / OFF 4. RETURN

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



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MAIN MENU	SUB MENU	OPTION
SMART 3D NR		ON / OFF
	ON:	1. VALUE: 1 ~ 200 2. SMART NR: ON / OFF 3. SMART LEVEL: 1 ~ 200 4. SENSITIVITY: 0 ~ 100 5. RETURN
F-DNR		OFF / MANUAL / AUTO
	MANUAL:	1. LEVEL: 0 ~ 31 2. COLOUR GAIN: 0 ~ 10 3. EDGE GAIN: 0 ~ 10 4. GAMMA: 0.05 ~ 1.00 5. RETURN
	AUTO:	1. DETECT LEVEL: 0 ~ 5 2. RETURN
FUNCTION		FOR THE FUNCTION MENU SEE BELOW
EXIT		SAVE / RESET / CANCEL

Function Menu

MAIN MENU	SUB MENU	OPTION	
MOTION		ON / OFF	
	ON:	1. AREA: 1 ~ 4 2. AREA DISPLAY: ON / OFF (ON: POSITION, SIZE) 3. VALUE: 0 ~ 100 4. MOTION VIEW: ON / OFF 5. RETURN	
PRIVACY		ON / OFF	
	ON:	1. AREA: 1 ~ 8 2. AREA DISPLAY: ON / OFF (ON: TOP LEFT, TOP RIGHT, BTM LEFT, BTM RIGHT, POSITION) 3. COLOUR: 0 ~ 15 4. TRANSPAR: 0 ~ 3 5. RETURN	
D-EFFECT	D-ZOOM	ON / OFF	
		ON:	1. RANGE: X1.0 ~ X32.0 2. PAN: -100 ~ 100 3. TILT: -100 ~ 100 4. RETURN
	SMART D-ZOOM	ON / OFF	
		ON:	1. RANGE: X2.0 ~ X5.0 2. POSITION: POSITION 3. SENSITIVITY: 0 ~ 100 4. TIME: 0 ~ 15 5. RETURN
	DIS	ON / OFF	
	FREEZE	ON / OFF	
	MIRROR	OFF / MIRROR / V-FLIP / ROTATE	
	NEG. IMAGE	ON / OFF	
	IMAGE ADJ	SHARPNESS	1. 0 ~ 31
MONITOR		CRT / LCD	
		CRT	1. PED LEVEL: 0 ~ 63 2. COLOUR GAIN: 0 ~ 255 3. RETURN
LCD		1. GAMMA: 0.05 ~ 1.00 2. PED LEVEL: 0 ~ 63 3. COLOUR GAIN: 0 ~ 255 4. RETURN	
LENS SHADING		ON / OFF	
		ON	1. LEVEL: 0 ~ 60 2. H-CENTER: 0 ~ 255 3. V-CENTER: 0 ~ 255 4. RETURN
DEFECT	1. SENSUP: X4 ~ X128 2. DIFF: 0 ~ 3 3. THRESHOLD: 0 ~ 4 4. START 5. RETURN		

Function Menu Continued On Next Page ►►►

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MAIN MENU	SUB MENU	OPTION
COMM ADJ	CAM TITLE	ON / OFF
		ON : CAM TITLE
	PROTOCOL	PELCO-D / PELCO-P / SPD-S / DONG YANG / NIC P
	RS485	1. CAM ID: 1 ~ 255 4. START 2. ID DISPLAY: ON / OFF 5. RETURN
SYNC		1. INT
LANGUAGE		ENGLISH / KOREAN / JAPANESE / CHINESE / RUSSIAN / FRENCH / SPANISH / ITALIAN / PORTUGUESE / DUTCH / GERMAN / POLISH / TURKISH / HEBREW / ARABIC

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 around 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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