

Features

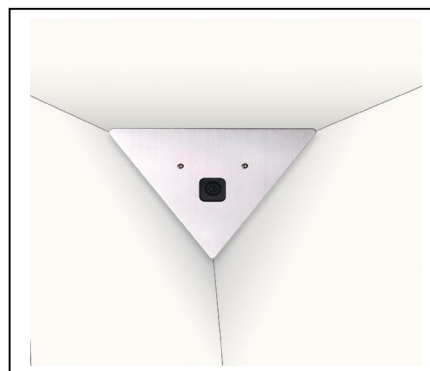
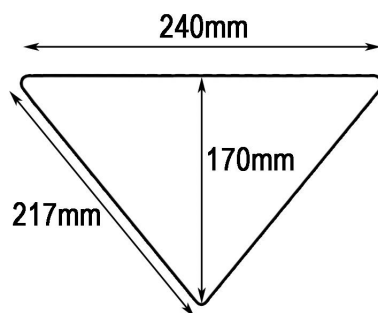
- ◆ 1/3" Sony SuperHAD Colour CCD
- ◆ 2.5 mm board lens
- ◆ Low light capability (approx 0.5 lux)
- ◆ Vandal proof – Stainless Steel
- ◆ CAM156 – 420TVL
- ◆ CAM158 – 550TVL
- ◆ 12vDC 160mA
- ◆ OSD menu
- ◆ Ideal for lifts and security rooms



This internal surveillance camera provides an ideal solution for internal surveillance of lifts, security rooms and modern styled rooms. Its triangular shape allows it to be fitted neatly in a room corner and the special 2.5mm wide angle lens provides the answer to increased room coverage. The camera has an adjustable cradle allowing positioning of the lens at the required angle.

Fastening the Camera to the Wall/Ceiling

First make a hole through the ceiling for connection of the video and power cables. The camera stainless steel plate is secured to the camera assembly using two special allen key screws. Remove these screws with the allen key provided, to allow the black metal camera assembly to be fitted to the corner of the room. Fit this with the rubber block pressed up tight against the ceiling. Connect the video and power and adjust the camera angle by testing it through the stainless steel plate window. You will see there are a number of alternative settings that can be selected to get the required view. Then refit the front plate using the allen key screws.



Connecting and Testing the Camera

The camera requires a 12V 160mA+ **high quality regulated power supply**. The camera's D.C input connector is a 2.1mm size DC Socket and the middle pin is the 12V+ and the outer case is 0V or ground – *please ensure your power supply is regulated and has the same connector configurations or you may damage the camera and void the guarantee.*

You can connect the camera to any suitable switcher, quad, DVR, VCR or monitor that uses the industry standard 1Volt peak-peak 75Ω input. The camera is supplied with a pre-connected BNC connector that can connect directly into the video input of other CCTV equipment by a suitable BNC-BNC lead.

It is not recommended that you cut off the connectors from the camera as it may cause the camera to be connected incorrectly and damage it.

On Screen Display Menu

This camera has an On Screen Display Menu. Select this by pressing the OSD menu button on the side of the camera. When pressed the SETUP menu screen will be displayed. Menu auto exits after several seconds.

SETUP MENU



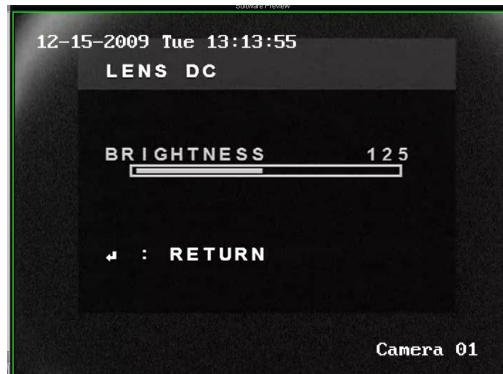
Select the LENS type first. DC for DC Drive Iris Lens, Manual for fixed Iris Lens and Video for Video Drive Iris Lens.

LENS

LENS DC DC DRIVE IRIS LENS
If Direct Drive Lens fitted the LENS DC Menu will appear. Use left and right arrow key movement to select brightness level.

MANUAL Fixed Iris Lens

VIDEO Video Drive Iris Lens

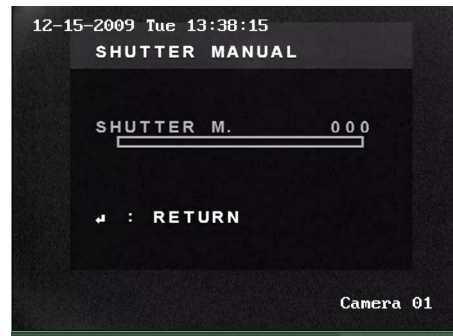
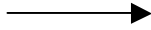


SHUTTER

FIXED Fixed Shutter
Select from 1/500, 1/250, 1/120(FLK), 1/50,
1/100,000, 1/10,000, 1/5000, 1/2000

FLK Anti-Flicker

MANUAL Manual
(Set graduated scale)



BACKLIGHT COMPENSATION

If varying light conditions, backlight compensation can be switched ON to enable overall control of light distribution.

AUTOMATIC GAIN CONTROL

Use the left and right arrow keys to set the video gain control.

Provides clearer images in low light conditions.



WHITE BALANCE

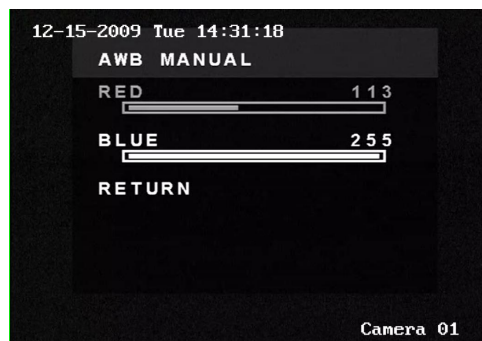
MANUAL AWB MANUAL

Set auto white balance by adjusting red and blue Settings 000 ~ 255.

FIXED AWB FIXED
MODE 1, 2, 3, 4
Select the required fixed mode.

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

ATW Auto Tracking White Balance
Suitable for viewing objects with changing colour

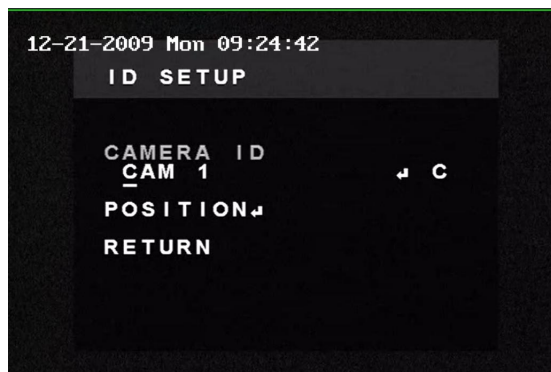


<u>FUNCTION</u>	
RETURN	Return
CAMERA ID	Camera ID
MIRROR	Reverse Picture
DAY NIGHT	Set Day Night
PRIVACY	Mask area
GAMMA	Adjust level
LANGUAGE	Set language
RESET	Set defaults



CAMERA ID OFF / ON

This is used to set Camera Identity. Ensure CAMERA ID is selected (grey colour) and press set button. Then select characters using up and down arrow keys. When complete select left arrow position and press set button. Note that camera ID position starts under second character of CAMERA ID as shown and that up to 15 characters can be used. Clicking on C will clear the camera ID selected.



Use the POSITION button by selecting it and pressing set button. Move ID to camera position required and press set button. Click on left arrow button to close and then select RETURN. Note that the camera ID is only displayed when the CAMERA ID is switched to ON.

MIRROR OFF / ON

This option allows a reverse image to be displayed if set to ON.

DAY NIGHT AUTO / COLOR / B/W

AUTO Press set button to enter menu. Colour during day and B/W at night.

DELAY 00 / 63

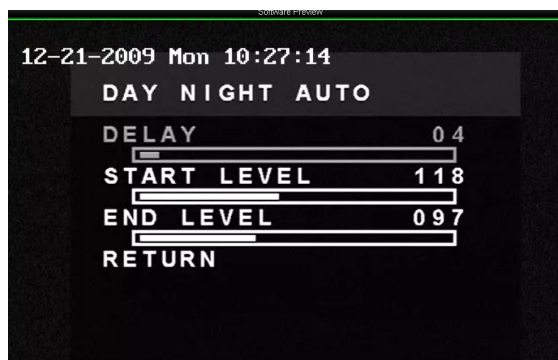
This allows the switching between day and night and night and day, to be delayed for the stipulated time in minutes, so that switching does not occur on and off during the twilight period.

START LEVEL / END LEVEL 0 – 255

Allows the light levels from day to night and from night to day to be selected for controlling when to switch modes.

COLOR Set for continuous colour day and night

B/W Set for B/W continuous and BURST



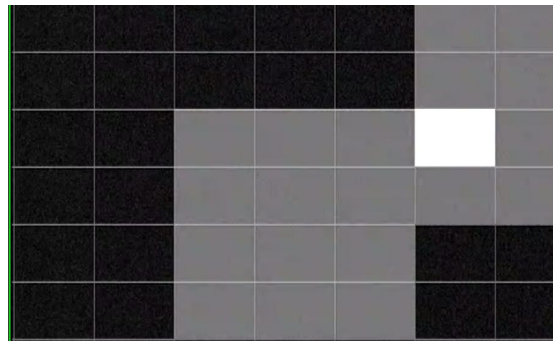
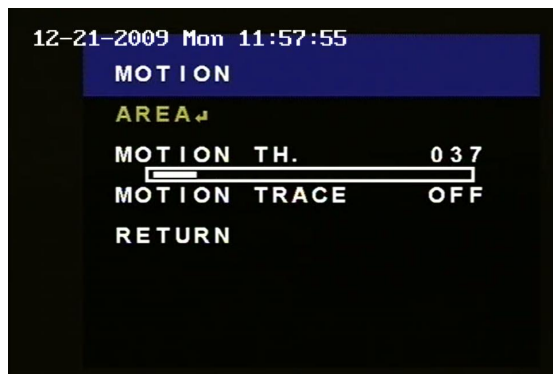
MOTION OFF / ON

This option displays a small image in the right hand corner of the screen when motion is detected.

AREA This allows the setting of areas for motion detection.

MOTION TH. This sets motion sensitivity 0 ~ 255

MOTION TRACE ON / OFF
Not applicable in this camera.



PRIVACY OFF / ON

This allows an area of the picture to be masked off when switched ON. Up to 4 areas can be set.

AREA SEL Select area number 1 ~ 4

AREA STATE Select to ON to activate area

LEFT/RIGHT/TOP/BOTTOM 0 ~ 255
Set area size



GAMMA 0.45 (0.05 ~ 1.00)

This setting allows the Gamma correction to be adjusted.

LANGUAGE JAPANESE / CHINESE (SIMPLIFIED) / CHINESE TRADITIONAL / KOREA

Select language

NOTE: In the event that an incorrect language is selected, the following will help you re-establish the correct language:

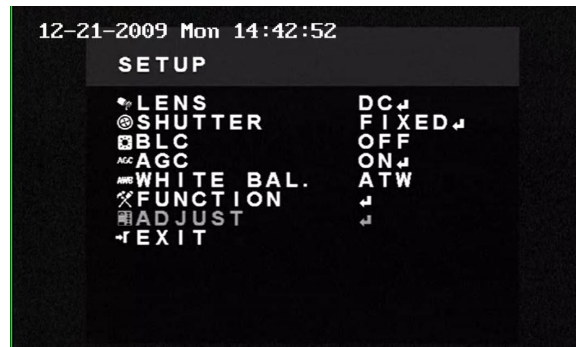
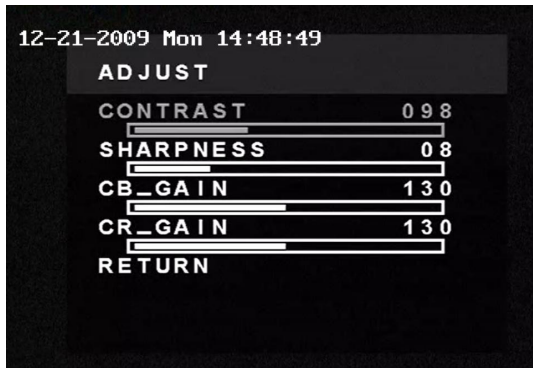
1. Let menu timeout and disappear.
2. Press set button to enter menu. Select the sixth line and press set button.
3. Select eighth line and press set button.
4. Adjust left or right until correct language is displayed.

RESET

Restores camera to default settings.

ADJUST

This function allows you to make changes to the picture contrast and sharpness, and make changes to the blue and red chrominance settings.



WEE/CG078355

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 collection point as defined by your local council.

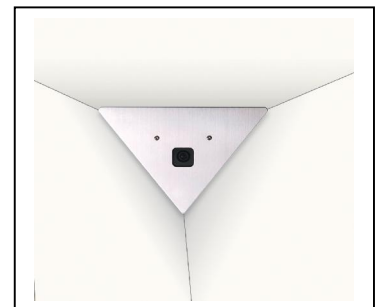
Troubleshooting.

The camera is built to the highest standards and every unit is fully tested prior to packing so if you experience an installation problem you need to investigate your cabling, connections, power supply and monitor. If you do fail to get a picture on a monitor you need to check the following things.

- 1 – The camera cannot function without the correct working power supply. The power supply **MUST** be regulated and be capable of supplying 160mA per camera **CONTINUOUSLY**.
- 2 – Make sure the BNC –BNC lead you connect between the camera and the monitor has no shorts or open circuits. If you are making up your own BNC-BNC lead don't forget the lead must have two wires connected to complete the circuit, video **AND GROUND**, without both of them it won't function correctly. If in doubt swap your lead with a pre-wired commercial one, as faulty leads are the main cause of problems.

TECHNICAL SPECIFICATIONS

External Camera	Bullet	CAM156	CAM158
Element		1/3" Sony SuperHAD Colour CCD	
Lens		2.5mm board lens	
Video Output		1.0v p~p, 75	
T.V. lines		420TVL	550TVL
Min Illumination		0.5 lux @ F1.2	
Power Voltage		12V dc - Must be regulated power supply	
Current Consumption		160mA @ 12V	
Iris Control		Auto Electronic 1/100000 second	
Mounting		Metal camera bracket assembly	
Housing		Brushed stainless steel front plate	
Size		240mm wide x 170mm drop – see diagram above	



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