

The Infra Red Varifocal Dome Camera produces good quality images at a low budget cost. The domes have a clear cover with a white shield and housing. The 550TVL camera has 22 IR Leds, a varifocal 4mm ~ 9mm lens, and an OSD menu that provides a mirror function, Privacy Masking and Day/Night settings. The dome camera is especially suitable for small shops, stock rooms, reception areas and lobbies.



Mounting the Camera

The camera is for indoor mounting on a ceiling.

Powering the Camera

The dome requires a 12V DC regulated power supply. The camera is provided with a fly lead with a mini power jack plug. 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 300mA add approximately 50% so use a power supply of 450mA or above.

Connecting the camera to control equipment.

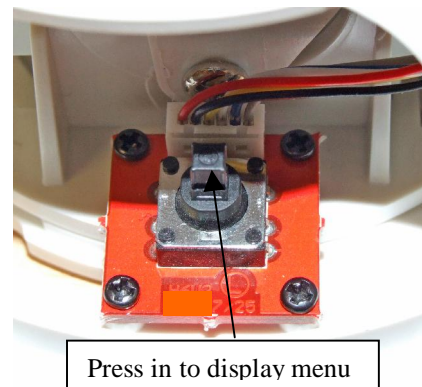
The dome camera comes with a fly lead for power and video out. To reduce installation time the video out lead is terminated into a male BNC connector. This allows the installer to effortlessly connect the camera to control equipment via a female BNC-BNC lead. Remember that the Video out from the camera 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 “0V GROUND” connection and the inner core provides the “Video” connection.

Adjusting Varifocal Lens

The dome camera can be adjusted for zoom and focus by holding down the base below the lens and lifting the cover, housing the LEDs, upwards. Set the zoom and focus adjustment by releasing the locking screws, adjusting zoom and focus and then re-locking.



The CAM585 has an in-built menu. To enter the menu, press the black button in, as shown to the right. When the menu is displayed you can move the button up and down to move to an option and then press the button left or right to change a value. If the option has an ← next to it then press the button in to enter. Note that the menu only displays for a short time when not being accessed.



OSD Function Table

Menu Setup	Option	Function
Lens (+ Options)	Manual DC (+ Options) Video	Manual Iris Lens DC Drive Lens Video Drive Lens
Shutter	FLK Fixed (+ Options) Manual (+ Options) Auto	Anti-flicker Fixed Manual Auto only supports manual iris
BLC	On (+ Options) Off	Backlight compensation On Backlight compensation Off
AGC	On (+ Options) Off	Automatic Gain Control On Automatic Gain Control Off
White Bal	ATW AWB Fixed (+ Options) Manual (+ Options)	Auto Tracking White Balance Auto White Balance Fixed Manual
Function (+ Options)	Return Camera ID Mirror Day Night (+ Options) Motion (+ Options) Privacy Gamma Language Reset (+ Options)	Return Camera ID Mirror Day Night Motion Privacy Gamma Language Reset
Adjust (+ Options)	Contrast Sharpness CB-GAIN CR-GAIN Return	Contrast Sharpness CB-GAIN CR-GAIN Return
Exit	Exit	Exit

LENS Manual / Video / DC ←

Select Manual for fixed iris lens
Select Video for video drive lens
Select DC for DC drive lens
The CAM585 is fitted with a Manual lens.

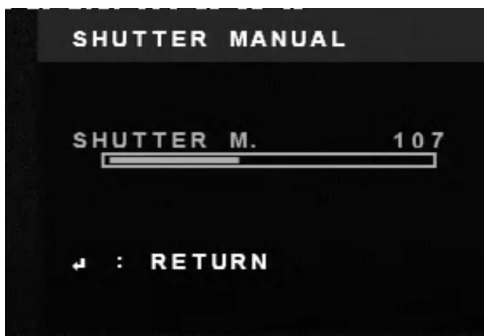
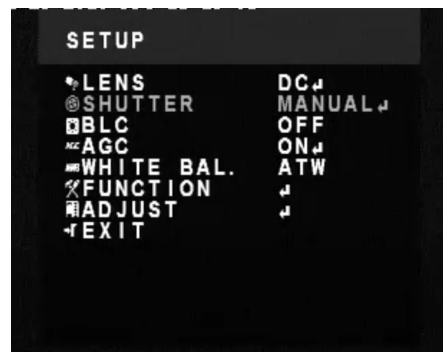


Moving the menu button to the right will increase the brightness and to the left will decrease it.

The range is 000 ~ 255

SHUTTER Manual ← / FLK / Fixed / Auto

- Manual Press menu in for Shutter setting (000 ~ 255)
- FLK Flickerless Option
- Fixed Set fixed shutter speed (1/50 ~ 1/100,000)
- Auto Sets Brightness (manual iris only)



BLC Backlight Compensation On  / Off

If required switch BLC to On and enter BLC SETUP menu.

Select BLC Area and press in menu button.

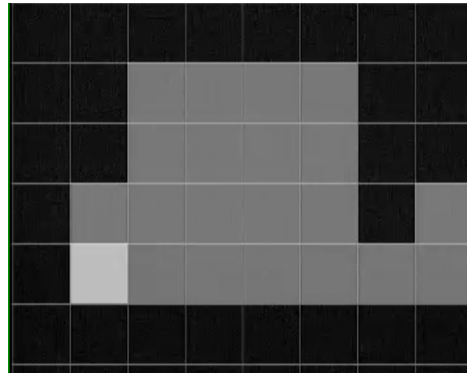
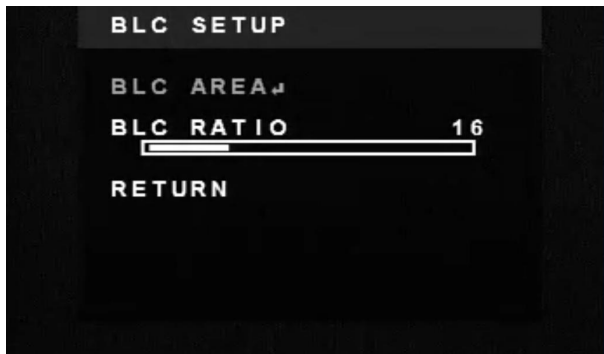
BLC AREA Press menu button in to select each area for BLC. Select up to 64 areas.


BLC RATIO move left or right to set the compensation level 00 ~ 63

Note that to exit BLC AREA let menu time out.



BLC AREA



AGC Automatic Gain Control Off / On 

AGC can be set from 000 ~ 255



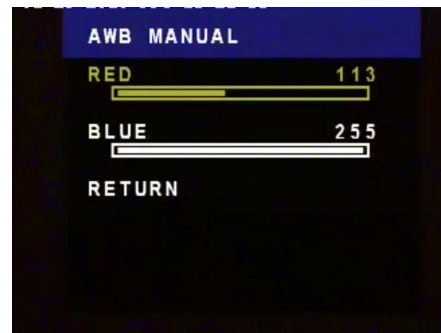
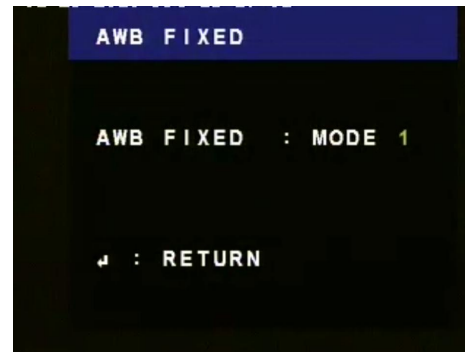
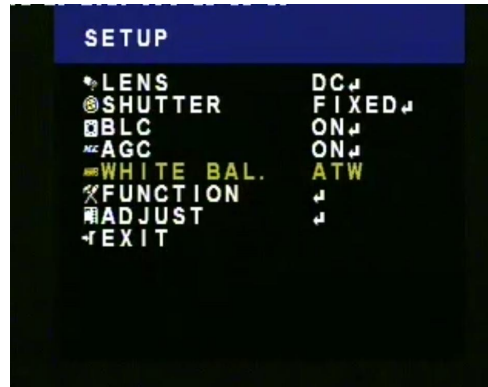
WHITE BAL ATW / AWB / Fixed/ Manual

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

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

Fixed **Fixed White Balance**
Allows white balance to be Selected by mode.
Modes 1 ~ 4.

Manual **Manual White Balance**
Manual setting of white balance setting RED and BLUE levels.
0 ~ 255 for each colour.



FUNCTION  Various Options

CAMERA ID

Set camera name and position

MIRROR

Set reverse picture

DAY NIGHT 

Set Auto, B/W or Colour.

MOTION

Set motion

PRIVACY

Set Privacy Masking.

GAMMA

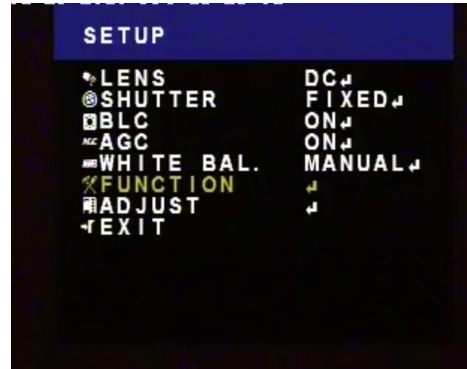
Set Gamma level.

LANGUAGE

Select Language.

RESET 

Reset default settings.

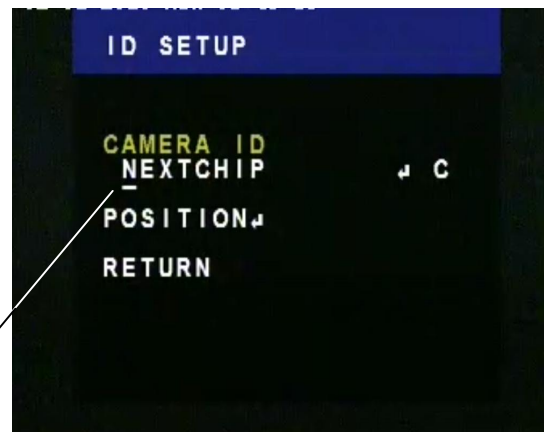
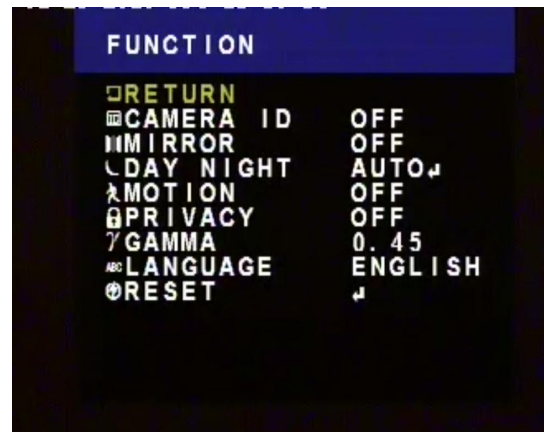


CAMERA ID **OFF / ON** 

This option allows a 15 character ID to be setup for the camera. Select CAMER ID and position underline beneath character to be entered. Press the down key to select correct character. Press right to move to next character. Selecting the C will clear the ID set.

POSITION

This allows the positioning of the ID set. Note that you cannot enter this option unless you have set an ID. Also note that the ID starts in the second column under the first letter A in CAMERA.



MIRROR **OFF / ON**

Setting MIRROR option to ON will reverse picture from left to right.

DAY NIGHT AUTO / **B/W** / **COLOR**

COLOR

Selecting this option will display in colour mode constantly.

AUTO

This option allows for colour setting during the day and switch to B/W at night. See menu below.

B/W

This allows display in black and white constantly. See menu below.



DELAY

This sets the time in minutes 00 ~ 63 in order to overcome incorrect switching from day to night or night to day, when light levels may fluctuate between day and night.

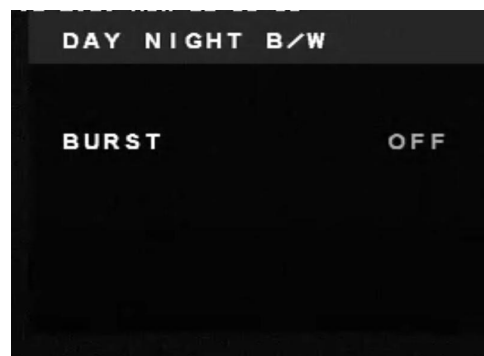
START LEVEL & END LEVEL

The ratio of light to trigger the switch from day to night or from night to day. Settings are 000 ~ 255 for each.



B/W

Selecting this option will display the BURST function for setting OFF or ON.



MOTION OFF / ON

This option displays a little man on screen when motion detected.

AREA

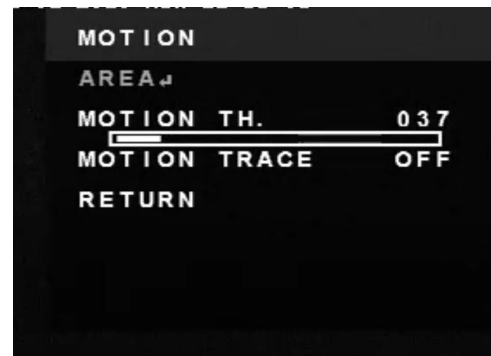
This allows motion to be setup in up to 64 boxes. Move to box and press button in, to set each motion area.

MOTION TH.

This sets the motion sensitivity setting. Range is from 000 ~ 255.

MOTION TRACE

This triggers a little man displayed in top right of screen when motion is triggered.



PRIVACY OFF / ON

This allows privacy masking of up to 4 areas AREA 0 ~ AREA 3. The area/s will be hidden from camera view.

Select PRIVACY and set to ON.

AREA SEL

Select Area 0 ~ 3.

AREA STATE

Set Area State to ON.

LEFT/RIGHT/TOP/BOTTOM

Range 000 ~ 255

Adjust above to set area to be hidden.

COLOR 00 ~ 63

Used to select colour of hidden area.



GAMMA

This option allows the GAMMA setting to be altered from the default of 0.45.

Range of settings 0.05 ~ 1.00



LANGUAGE

This option allows the OSD language to be selected from English, Japanese, Korean, Chinese Simplified and Chinese Traditional.



RESET

This option will reset the default camera settings.



LOAD DEFAULT YES / NO

Allows the default settings to be applied or the request cancelled.

If defaulted you must set LENS to Manual and SHUTTER to Auto.



ADJUST 

Adjust Contrast, Sharpness, Blue Gain and Red Gain.

CONTRAST

Range 000 ~ 255

SHARPNESS

Range 00 ~ 31

CB_GAIN Chrominance Blue Gain

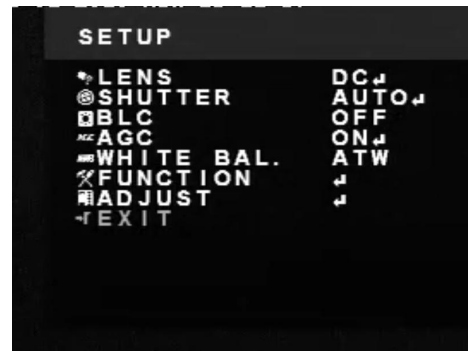
Range 000 ~ 255

CR_GAIN Chrominance Red Gain

Range 000 ~ 255

EXIT

Select EXIT to exit from menu.



CAM585 Camera Specifications

Item	Description	
Signal of System	PAL	NTSC
Image Sensor	Sony 1/3" Super HAD 550TVL	
Video Processor	Nextchip 2120 DSP	
Auto Exposure	Auto	
OSD Languages	English / Chinese Simp & Trad / Japanese / Korean	
Special Functions	Day Night / Mirror / Privacy Masking	
Lens support	Manual	
Picture Elements	752H x 582V	768H x 494V
Scanning Systems	625 Lines	525 Lines
Scanning Rate	15.625KHz(H) 50Hz	15.734KHz(H)59.94Hz
Shutter Speed	1/50 ~ 1/100,000 sec	1/60 ~ 1/100,000 sec
Synchro system	Internal	
S/N Ratio	More than 50dB (AGC off)	
Auto gain	On (Max 4 ~ 30dB)	
Minimum Illumination	0.05 Lux (F1.2)	
Gamma value	r = 0.45	
White Balance	AWB (2,100°k ~ 9,100k)	
Video Output	CVBS, 1v p~p, 75w	
Voltage	12vDC	
Current	100mA infra reds off / 300mA infra reds on	
Operational Temperature	-10°C ~ +50°C 85% RH	
Operational Humidity	90% RH max.	

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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.