

FOR A GOOD **REASON**
GRUNDIG

EN

Owner's Manual

Cameras & Domes

GCA-B1323V	1/3" CCD Col/B&W Fixed Dome Camera
GCA-B0323V	1/3" CCD Col/B&W Fixed Dome Camera w/ IR LED
GCA-B0325V	1/3" CCD Col/B&W Fixed Dome Camera, WDR
GCA-B0322V	1/3" CCD Col/B&W Fixed Dome Camera

GCA-B1323V.5.3.26.10.2010

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Design and specifications are subject to change without notice

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1. Available Versions

	Day/Night	LED	WDR
GCA-B0322V	Soft	-	-
GCA-B1323V	ICR	-	-
GCA-B0323V	ICR	✓	-
GCA-B0325V	ICR	-	✓

These instructions apply to the adjacent products. For the different properties of the products please refer to the table.

2. Important Safety Instructions

Be sure to use only the standard adapter that is specified in the specification sheet. Using any other adapter could cause fire, electrical shock, or damage to the product. Incorrectly connecting the power supply or replacing battery may cause explosion, fire, electric shock, or damage to the product. Do not connect multiple cameras to a single adapter. Exceeding the capacity may cause abnormal heat generation or fire.

Do not place conductive objects (e.g. screwdrivers, coins or any metal items) or containers filled with water on top of the camera. Doing so may cause personal injury due to fire, electric shock, or falling objects.

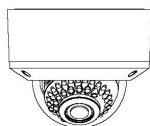
If any unusual smells or smoke come from the unit, stop using the product. In such case, immediately disconnect the power source and contact the service center. Continued use in such a condition may cause fire or electric shock.

If this product fails to operate normally, contact the nearest service center. Never disassemble or modify this product in any way. (GRUNDIG is not liable for problems caused by unauthorized modifications or attempted repair.)

To prevent fire or electric shock, do not expose the inside of this device to rain or moisture.

3. Package Contents

These parts are included:



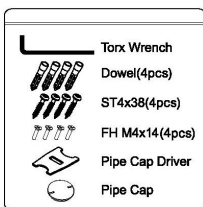
CAMERA



DRIVER



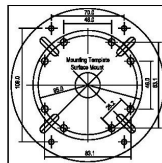
SERVICE MONITOR AND
CONTROL CABLE



ACCESSORIES



INSTRUCTION
MANUAL



MOUNTING
TEMPLATE

4. Installation

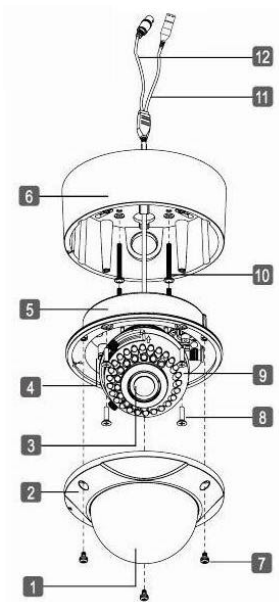
Do not install in a location subject to high temperature (over 50°C), low temperature (below -10°C), or high humidity. Doing so may cause fire or electric shock. Keep out of direct sunlight and heat radiation sources. It may cause fire. Avoid aiming the camera directly towards extremely bright objects such as sun, as this may damage the CCD image sensor.

Do not install the unit in humid, dusty, or sooty locations. Doing so may cause fire or electric shock. Install it in a place with good ventilation.

When installing the camera, fasten it securely and firmly. A falling camera may cause personal injury.

If you want to relocate the already installed product, be sure to turn off the power and then move or reinstall it.

4.1. Parts Name



1. Bubble
2. Dome Cover Ring
3. Lens
4. Service Monitor Output Port
5. Flush Mount Base
6. Surface Mount Plate
7. Assembly Screws (Torx M4x8)
8. Assembly Screws (Philips M4x14)
9. Camera Control Board
10. Mounting Screws (St4x38)
11. Power Input Terminal: AC 24V/DC 12V
12. Video Output Connector - NC

4.2. Base Installation

1. Remove dome cover by loosening 3 screws. Using the Torx wrench supplied.

2. Surface Mount :

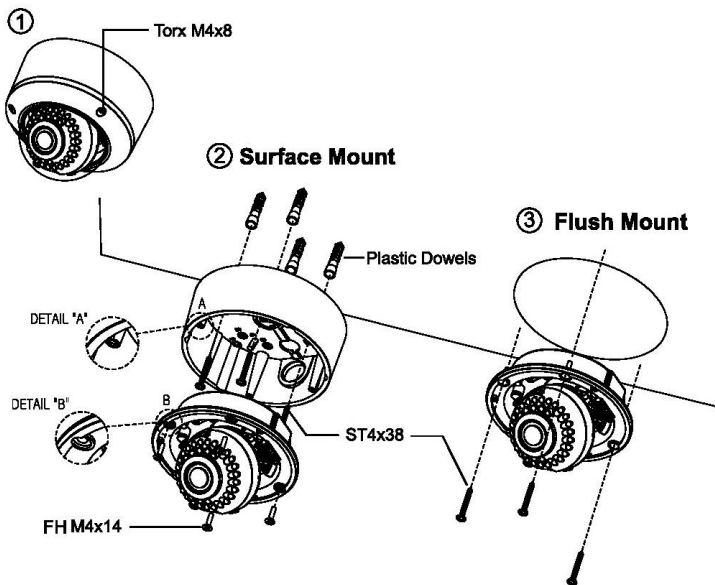
Using the four ST4x38 screws, mount the surface plate to a sturdy surface.

Using the four M4x14 screws, affix flush mount base to surface plate.

(For flush mount application, disregard section 2.)

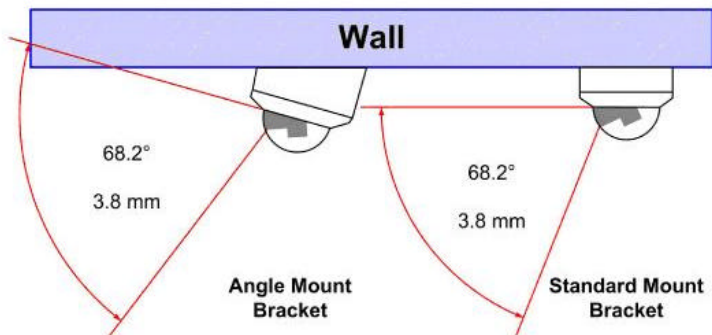
3. Flush Mount :

Using the four ST4x38screws, affix flush mount base to a sturdy surface.



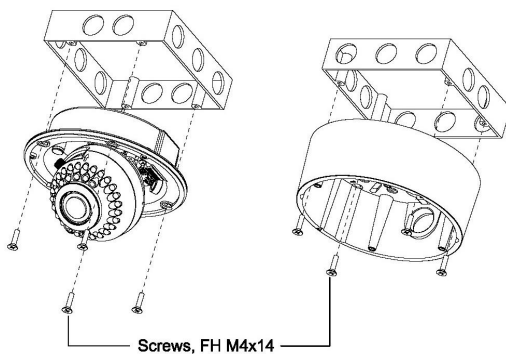
4.3. Angle Mount Bracket Advantage

With standard bracket, Vandalproof dome allows only tangential view along the lid. The Angle brackets incline enables an increased angle of vision to monitor the wall surface supporting the camera. It is ideal for monitoring of ATMs, access, display cases etc.



4.4. Mounting Housings to Electrical Junction Boxes

This unit can be either flush mounted or surface mounted with Electrical Junction Boxes using the pre-drilled mounting holes on. Dome housing accommodate various electrical junction boxes, making installation easy and less time consuming.



Note:

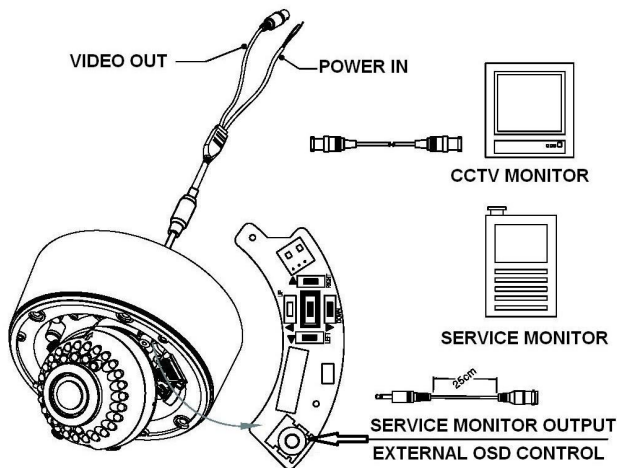
Screws required for electrical junction boxes are not supplied with the Dome. These screws are readily available at local electrical supply stores.

4.5. Connections

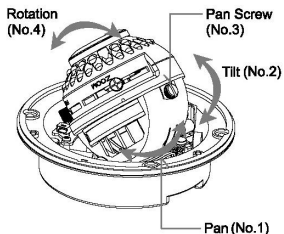
- Power connection: Requires DC 12V or AC 24V input depending on camera model.
- All camera models are supplied with service monitor output on the camera module. A service monitor and control cable is included in the package.

Note:

To set up OSD menu externally, service monitor and control cable is required.

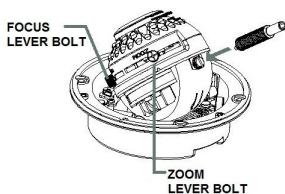


4.6. 3-Axis Gimbal Adjustment



1. Pan: Adjust the first pan angle by turning the gimbal 360° degree (see figure No.1).
2. Tilt: Adjust the tilt angle by moving the gimbal up and down (see figure No.2).
3. Rotation: Loosen the pan screw (No.3) to adjust the pan to desired angle (see figure No.4) and fix the screw.

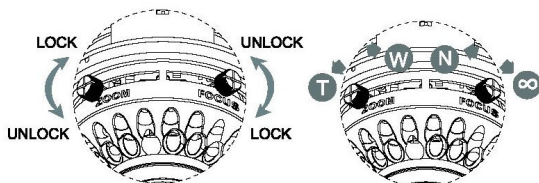
4.7. Zoom & Focus Adjustment



1. If you require to make focal/focus adjustments, loosen the lever bolt and make the necessary adjustment.

2. Loosen the Zoom & Focus lever bolt and make the viewing angle/focus as shown.

- Field of View: Telephoto (T) to Wide (W)
- Focus: Near (N) to Infinity (∞)



Caution:

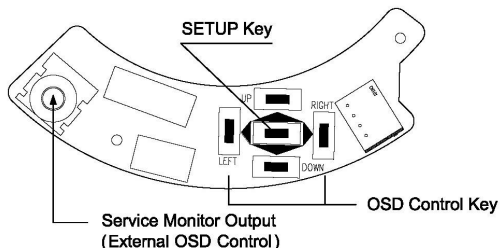
Focus and Zoom Lever Bolts **MUST** be pushed back in properly. If they touch the inside of the dome bubble they will cause scratches. This may affect the view of the camera.

5. OSD Menu

5.1. OSD Controls

5.1.1. OSD Control Keys

- SETUP key: Accesses to the menu mode or confirms the setting.
- UP (\wedge) / DOWN (\vee): Chooses the desired menu.
- LEFT ($<$) / RIGHT ($>$): Sets up the value of the selected menu.



5.1.2. OSD Icons



[EXIT]

Exits the menu setting. Before you exit make sure you SAVE your settings, or select QUIT to cancel.



[RET]

Returns to the previous menu.



[HOME]

Returns to the main menu.



[SAVE]

Use this to SAVE your settings of MASK AREA, PRIVACY ZONE and more. Once you saved your settings, they will remain even if you select QUIT in the menu.

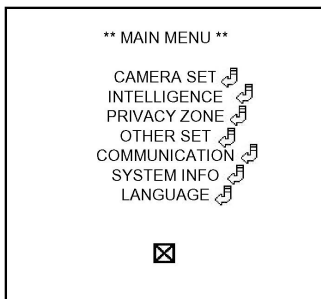


[DEL]

Use this to delete your settings of MASK AREA, PRIVACY ZONE and more. Once you saved your settings, they will not be restored even if you select QUIT in the menu.

5.2. Main menu

1. Press the SETUP key and hold it for a while to access the menu mode.
2. Select the desired feature by using UP/DOWN keys (\wedge \vee) on the control.



CAMERA SET: Here you can configure camera related functions and data.

INTELLIGENCE: You can configure the settings of motion detection, tracking and more.

PRIVACY ZONE: You can configure the privacy related settings.

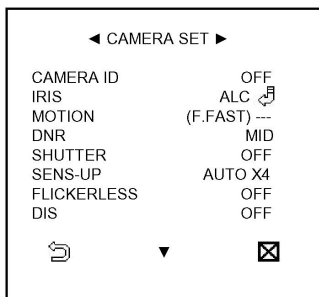
OTHER SET: You can configure for factory defaults, and more.

COMMUNICATION: Configures the settings regarding the RS-485 communication.

SYSTEM INFO: Displays the system information including the camera version and communication settings.

LANGUAGE: Select a preferred language from those listed.

5.3. Camera Setup



CAMERA ID [OFF, ON] :

It is used to switch on/off the camera id. If camera id is switched ON you can access the CAMERA ID menu to program the camera text.

IRIS [ALC, ELC] :

The IRIS menu is used if you want to adjust the intensity of light incoming into the camera.

MOTION [S.SLOW, SLOW, NORM, FAST, F.FAST] :

This menu is used to adjust the strength of the AGC level for a control of the camera motion. You can select from S.SLOW, SLOW, NORM, FAST and F.FAST for the AGC level. If you monitor fast moving objects in a low contrast scene, select F.FAST while select S.SLOW for hardly moving objects in the same lighting condition.

Note:

- This is only available if the SENS-UP menu is set to AUTO.

- If the DAY/NIGHT menu of CAMERA SET is set to AUTO, the MOTION menu will be deactivated.

DNR [OFF, LOW, MID, HIGH, USER (1~16)] :

You can configure the DNR (Digital Noise Reduction) related settings. It reduces the noise on the screen. This is especially useful for a severely distorted screen. You can set the level if you set DNR to USER.

SHUTTER [OFF, AUTO 1/120~1/10K, 1/120~1/10K] :

You can select one of 7 options from 1/120 to 1/10K for the fixed high speed electronic shutter, which is mostly used for imaging a fast moving object. The auto high speed electronic shutter operates as the fixed high speed shutter in a high contrast scene but automatically focuses the target if the iris opens fully in a low contrast scene like in ELC mode. When it gets bright again, the mode will switch to the fixed high speed electronic shutter mode. However, the auto high speed shutter operates properly only in a camera featuring a DC or VIDEO lens.

Note:

- If the IRIS menu is set to ELC, the SHUTTER menu will be deactivated as you adjust the brightness using the electronic shutter.
- If the SENS-UP menu is set to AUTO, only items of OFF and AUTO are available in the SHUTTER Menu
- If the SENS-UP menu is set to FIX, the SHUTTER menu will be deactivated.
- If the FLICKERLESS function is set to ON, the SHUTTER menu will be deactivated.

SENS-UP [OFF, AUTO x2~x256, FIX x2~x256] :

Automatically detects the ambient level of darkness in the dark or low contrast scene to extend the accumulated time, keeping the image bright and sharp. It can be also used as FIX mode.

Note:

- If the SHUTTER menu is set to fixed electronic shutter mode, the SENS-UP menu will be deactivated.
- If the FLICKERLESS menu is set to ON, the FIX mode of the SENS-UP will be disabled.
- If the IRIS menu is set to ELC, the electronic shutter will control the brightness so the SENS-UP function cannot be set to FIX mode, but to OFF or AUTO mode.
- If the SHUTTER menu is set to AUTO, the SENS-UP menu can be set to either OFF or AUTO mode.
- If the BACKLIGHT function is set to WDR, the SENS-UP menu cannot be set to FIX.

FLICKERLESS [OFF, ON] :

If set to ON, the shutter speed will be fixed to 1/120 second. This will prevent possible screen distortion due to a mismatch between the vertical sync frequency and the blinking frequency of the lighting.

Note:

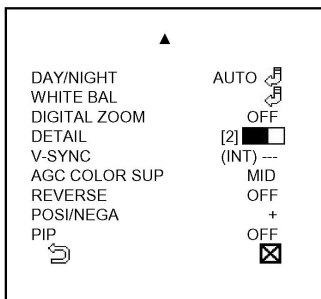
- If the IRIS menu is set to ELC mode, the FLICKERLESS menu will be deactivated.
- If the SHUTTER menu is set to AUTO or FIX mode, the FLICKERLESS menu will be deactivated.
- If the SENS-UP menu is set to FIX mode, the FLICKERLESS menu will be deactivated.
- If the AGC menu is set to FIX mode, the FLICKERLESS function will be disabled.

DIS [OFF, ON] :

Digital Image Stabilization will set the anti-shake compensation.

Note:

- If you set DIS to ON, the compensation area will be enlarged as set in the digital zoom factor.
- If you set the digital zoom factor to greater than the enlarged zoom factor for the compensation, the DIS function will be deactivated.



DAY & NIGHT [DAY, NIGHT, AUTO, EXT] :

- DAY: If set to DAY, it will be fixed to colour mode regardless of the ambient conditions.
- NIGHT: If set to NIGHT, it will be fixed to Black-and- White mode regardless of the ambient conditions. If you press the SETUP key, the NIGHT submenu is selected.
- AUTO: The camera will automatical switch between DAY and NIGHT mode, according to the lighting condition. If you press the SETUP key, the AUTO sub-menu is selected.

- EXT: This enables an auto switch between DAY and NIGHT mode using the detected brightness level by photocell.

Attention:

The camera model GCA-B0323V has an integrated IR illuminator with photocell. Therefore we recommend the DAY/NIGHT menu setting EXT to get the best results.

WHITE BAL :

If you want to adjust the colour scheme, use the WHITE BALANCE function.

DIGITAL ZOOM [ON, OFF] :

You can set the digital zoom factor and position. When the zoom factor and position are defined, the digital zoom function will operate.

DETAIL [0~3] :

Controls the horizontal or vertical distinction.

V-SYNC [INT] :

This camera model is fixed INT (Internal synchronization).

AGC COLOR SUP [LOW, MID, HIGH] :

Adjust the color scheme according to the AGC value.

REVERSE [OFF, H/V, H/V] :

Mirrors video signals horizontally, vertically, or both.

POSI/NEGA [+ , -] :

Output as it is or mirror the video brightness signal.

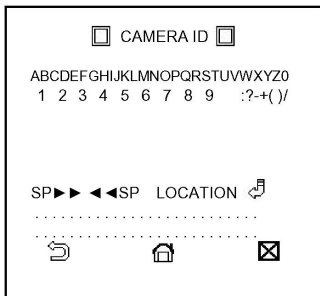
PIP [OFF, ON] :

Displays a sub image together with the main image on the same screen using the Picture In Picture Function.

Note :

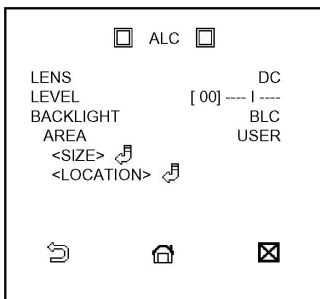
- If more than one privacy zone is set and the PRIVACY SET is set to ON, the PIP function will be deactivated.

5.3.1. CAMERA ID



This menu is used for you to assign a unique name to a camera. You can enter up to 54 Alphanumeric or special characters for the CAMERA ID. Select LOCATION and press the SETUP key to move the display position of the CAMERA ID.

5.3.2. ALC (Automated Light Control)

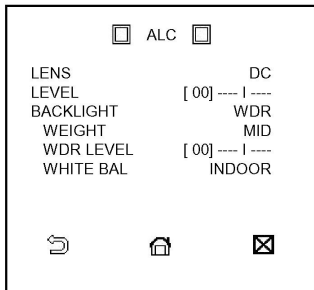


If you press the SETUP key with an ALC based submenu selected, you will see LENS, LEVEL, BACKLIGHT options on your screen.

In the LENS options, you must select DC for this camera model.

In the LEVEL option, you can adjust the overall brightness where "+" will increase the brightness and "-" will decrease.

In the BACKLIGHT option, you can adjust the BLC (Back Light Compensation) function. You can set the desired BLC zone by defining the size and the location. If you use the ordinary camera in a scene with an intensive back light, the object will be displayed dark on the monitor affected by the back light. To solve this problem, you can use the BLC function to improve the sharpness of the image in such a high contrast scene.

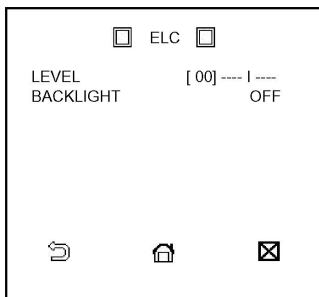


If you set the BACKLIGHT option to WDR*, you can adjust the shutter speed in WDR LEVEL and the brightness in WEIGHT. You can select either OUTDOOR or INDOOR in WHITE BAL.

WDR (Wide Dynamic Range)* extends the gain range of the screen that is mostly useful if the camera is simultaneously looking at both indoor and outside i.e. viewing near a window or door entrance. Mainly, it improves the sharpness of the picture of the outside view as well as indoor view.

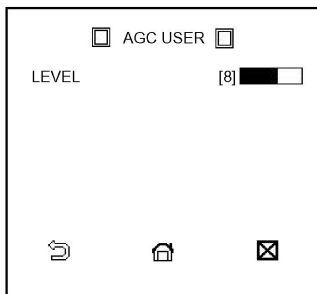
*WDR is only available for GCA-B0325V.

5.3.3. ELC (Electronic Light Control)



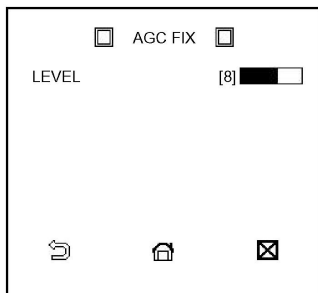
If you press the SETUP key when the ELC submenu is selected, the corresponding screen appears. You can make the ELC function active or not. Similar to the ALC setting, you can specify the BLC area.

5.3.4. AGC USER



In this mode, you can break down the level in 16 steps from VERY LOW to VERY HIGH as you prefer.

5.3.5. AGC FIX



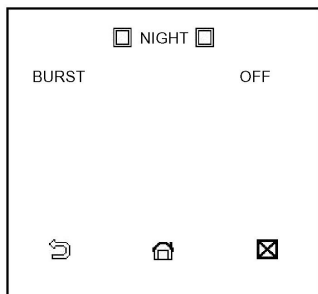
If you press the SETUP key with a FIX, you will see the appropriate screen. As a fixed value of the AGC gain is used in FIX mode, you can select one of the 16 detailed levels from VERY LOW to VERY HIGH before fixing it. FIX mode is not available if you set the BACKLIGHT function to WDR.

Note:

- If the DAY/NIGHT menu of the CAMERA SET is set to AUTO, the AGC menu will be deactivated.

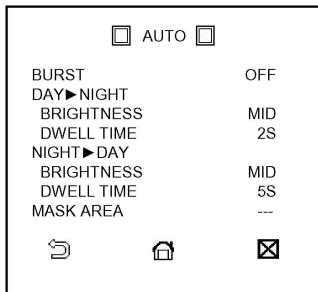
- If FLICKERLESS is set to ON, the AGC FIX mode will be disabled.

5.3.6. DAY/NIGHT (NIGHT MENU)



If set to NIGHT, it will be fixed to BLACK and WHITE mode regardless of the ambient conditions. If you press the SETUP key with a NIGHT submenu selected, you will see a menu where you can set Burst to OFF/ON. If BURST is set to ON, the Burst signal will output together with the BLACK and WHITE composite video signal. If BURST is set to OFF, the Burst signal does not output.

5.3.7. DAY/NIGHT (AUTO MENU)

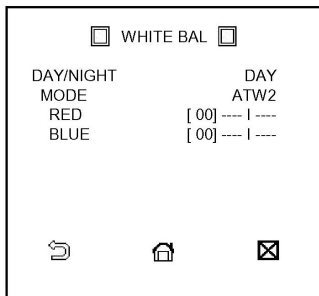


You can set the BURST option to OFF/ON, or select to output the Burst signal in NIGHT mode.

In the DAY > NIGHT option, you can select from LOW to HIGH for the brightness of DAY > NIGHT, which is a brightness level in switching from the colour filter to Black & White. Closing to LOW from HIGH will switch the filter in a low contrast scene. The DWELL TIME of DAY > NIGHT is a time required to determine the need for switching the filter.

In the NIGHT > DAY option, you can select from LOW to HIGH for the brightness of NIGHT > DAY, which is a brightness level in switching from the Black & White filter to colour. Closing to LOW from HIGH will switch the filter in a low contrast scene. The DWELL TIME of NIGHT > DAY is a time required to determine the need for switching the filter.

5.3.8. WHITE BALANCE



- DAY: In this mode, you can set the colour values of RED and BLUE. The screen will be displayed in colours according to your settings.

Note:

- You can set the values of R-GAIN and B-GAIN only in AWC mode.

- NIGHT: Use the NIGHT mode if you want to set the white balance differently according to the ambient Light. If the NIGHT mode is set to OFF, the white balance will always operate as set in DAY mode: If not to OFF, the camera will switch to as set in DAY/NIGHT mode according to the brightness. In NIGHT mode, you can set the values of RED, BLUE, and BRIGHTNESS. The screen will be displayed in colours according to your settings.

Note:

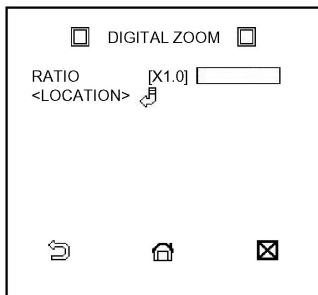
- You can set the values of R-GAIN and B-GAIN only in AWC mode.
- If AGC is set to OFF or FIX, you cannot access the NIGHT menu.

For adjusting the white balance, the following 5 modes are provided:

- ATW1 (Auto Tracing White Balance mode 1): The camera can be automatically adjusted the colour temperature in real time, according to the ambient conditions. The colour temperature ranges from approx. 2500K to 9500K.
- ATW2: The colour temperature ranges from approx. 1800K to 10500K.
- AWC (Auto White Balance Control): If you press the SETUP switch in the appropriate item position, Auto White Balance will perform once.
- 3200K: Set colour temperature to 3200K.
- 5600K: Set colour temperature to 5600K.

RED: Adjusts the strength of the red colour.
 BLUE: Adjusts the strength of the blue colour.
 R-GAIN/B-GAIN: Enables you to set the current colour temperature manually.
 BRIGHTNESS: Selects a brightness level in switching from setting in DAY mode to setting in NIGHT mode.

5.3.9. DIGITAL ZOOM



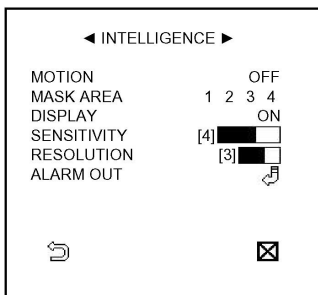
You can set the digital zoom factor and position. When the zoom factor and position are defined, the digital zoom function will operate.

- RATIO: Define the zoom factor with the direction keys (< >).
- LOCATION: If you press the SETUP key you can change the position of the digital zoom with the direction keys (< ^ V >).

Note :

- The DIGITAL ZOOM function enlarges the pixel itself, which can cause deterioration of the image quality.

5.4. Intelligence



MOTION [OFF, TRACKING, DETECTION] :
 TRACKING - Detects and tracks a moving object.

DETECTION - Detects a moving object.

MASK AREA [1~4] :

Specify a detection exception area to mask.

DISPLAY [ON, OFF] :

With the DISPLAY option set to ON, a motion function will be displayed on the screen, if detected.

SENSITIVITY [1~7] :

Set the sensitivity of the motion detection.

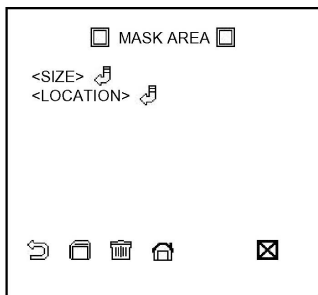
RESOLUTION [1~5] :

If you set the resolution to high, the camera can even detect movements of very small objects.

ALARM OUT :

**This related function is not available in this camera version.

5.4.1. MASK AREA

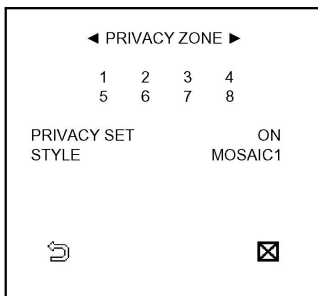


Specify a detection exception area to mask. Select a mask number and specify the size and position.

Note:

- If BACKLIGHT is set to BLC, the MASK AREA function will be deactivated.

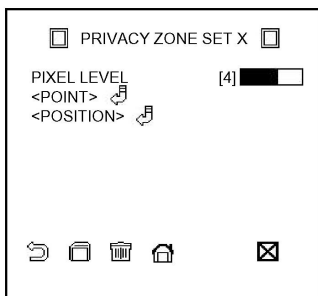
5.5. Privacy Zone



The PRIVACY function will protect your privacy by screening the privacy area that you have specified during monitoring. You can change the style to adjust the mosaic size and colour of the PRIVACY ZONE. Use the four direction keys to select the PRIVACY ZONE you require from PRIVACY 1~8 and press the SETUP key to confirm your setting.

Note:

- If more than one PRIVACY ZONE is specified and the PRIVACY SET is set to ON, the PIP function will be deactivated.



You can specify a pixel that moves as you change the PIXEL LEVEL to set the position.

How to set the point:

You can set each position of the 4 points.

- If you press the SETUP key in <POINT>, you will see the points available in the PRIVACY ZONE. Each time you press the SETUP key, the point being accessed will change.

- Use the four direction keys to set the position of each point. Set each position of the four points and press the SETUP key to complete the positioning.

How to set the position:

You can move the position of the overall area.

- By pressing the SETUP key in <POSITION>, you can move the overall position of the privacy zone.

- Use the four direction keys to move the position and press the SETUP key to confirm it.

5.6. Other Set





FACTORY DEFAULTS :

All the settings will be restored to the factory default. However, the settings of PROTOCOL, BAUD RATE, ADDRESS and LANGUAGE will not be restored to the default.

OSD COLOR [BW, R/G/B] :

You can set the OSD (On Screen Display) colour to BW, RED, GREEN and BLUE.



5.7. Communication

◀ COMMUNICATION ▶	
PROTOCOL	PELCO-D
BAUD RATE	XXXX
ADDRESS	X
 	

Configure the settings regarding the UART communication.

**This related function is not available in this camera version.

5.8. System Info

◀ SYSTEM INFO ▶	
TYPE	XXXXXXX
PROTOCOL	PELCO-D
ADDRESS	X
BAUD RATE	XXXX
SERIAL NO.	XXXXXXXXXXXX
CAMERA VER.	XXXXXXXXXXXX
 	

You can view the system information including the type, protocol, address, baud rate, serial number, and camera version.

5.9. Language

◀ LANGUAGE ▶	
*ENGLISH	
FRANÇAIS	
DEUTSCH	
ESPAÑOL	
ITALIANO	
 	

The camera supports 5 different languages. Select your preferred language from the list.

Specifications GCA-B1323V

Image Sensor	1/3" CCD (Sony Super HAD II)
Scanning System	PAL, 50Hz, 625 TVL(V), 2:1 Inter Line Transfer
Image Size	Pixel Total: 795 x 596, Pixel Effective: 752 x 582
Resolution	600(H) lines colour, 640 (H) lines b&w
Col/B&W	On/Off/Auto/Ext, IR-cut filter removable (ICR)
Sensitivity Colour	0.4 lux @ 50IRE F1.2, 0,001 lux sens up 256x
Sensitivity B&W	0.04 Lux(50IRE) 0.00004 Lux (15IRE, Sense up x256)
S/N Ratio	52 dB
Lens Drive Type	Auto iris, DC
Lens Focal Length	2.8 ~ 10.5 mm (TAMRON)
Viewing Angle	93.7°(H) ~ 28.3°(V)
Sens Up	Off ~ x256, auto
Motion Detection	On/Off/Sensitivity/Area setting
Number of Privacy Zones	8 (polygonal method)
High Speed Shutter	1/50 ~ 1/10.000 sec, auto
AGC	Off/On (Very LOW/LOW/Mid/High/Very High/User/Fix)
Digital Noise Reduction (DNR)	Off / On (Low/Middle/High/User)
Digital Image Stabilization (DIS)	Off/On
Additional Features	Digital Zoom, PIP, H/V Reverse, Positive/Negative inversion
Intelligent Video Analytics	Tracking/Detection
OSD	Yes, E/F/D/S/I
Camera ID	54 character, 2 lines
White Balance	ATW-1/ATW-2/AWC/Manual
Protection Rating	IP66
Video Outputs	1 CVBS 1 Vpp (BNC) & 1 test monitor out
Accessories included	Cable for service monitor with service remote control
Humidity	less than 90%
Operating Temperature	-10°C ~ +50°C
Supply Voltage	12 VDC/24 VAC
Power Consumption	5.5 W
Weight	1.12 kg
Dimensions (wxhxd)	Ø 152 x 126 mm

Specifications GCA-B0323V

IR LED	36 pcs.
Optical Wavelength	850 nm
Max. IR Distance	15/30 m (according to scene reflexion)

Power Consumption	7.5 W
Weight	1.0 kg
Dimensions (wxhxd)	Ø 152 x 126 mm

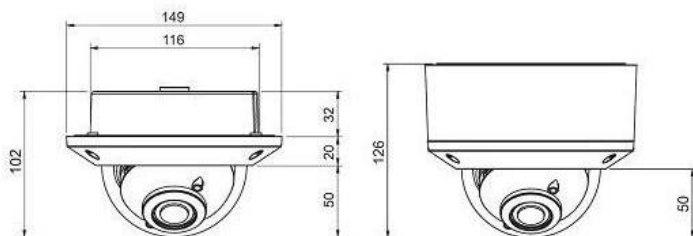
Specifications GCA-B0325V

Image Sensor	1/3" CCD (Sony PS Super HAD with WDR)
Wide Dynamic Range	On/Off
Power Consumption	5.5 W
Weight	1.12 kg
Dimensions (wxhxd)	Ø 152 x 126 mm

Specifications GCA-B0322V

Col/B&W	Auto (fixed IR-Cut filter)
Sensitivity	0.4 Lux(50IRE) @ F1.2, 0.001 Lux (15IRE, Sens up x256)
Power Consumption	5.5 W
Weight	1.12 kg
Dimensions (wxhxd)	Ø 152 x 126 mm

Dimensions



EC Declaration of Conformity

GCA-B1323V	1/3" CCD Col/B&W Fixed Dome Camera
GCA-B0323V	1/3" CCD Col/B&W Fixed Dome Camera w/ IR LED
GCA-B0325V	1/3" CCD Col/B&W Fixed Dome Camera, WDR
GCA-B0322V	1/3" CCD Col/B&W Fixed Dome Camera

It is hereby certified that the products meet the standards in the following relevant provisions:

EC EMC Directive 2004/108/EC
Low Voltage Directive 2006/95/EC

Applied harmonized standards and technical specifications:

EN 55022: 2006 + A1: 2007
EN 61000-3-2:2006
EN 61000-3-3:1995 + A1: 2001 + A2: 2005
EN 50130-4: 1995 + A1: 1998 + A2: 2003
EN 50121-4:2006

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