

INSTRUCTION MANUAL

White LED Camera

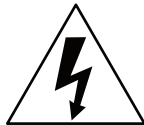
VL5700BPVF
VL5700BPVFW




speco technologies[®]

Speco Technologies is constantly developing product improvements.
We reserve the right to modify product design and specifications without notice and without incurring any obligation.

Rev. 6/9/10



The lightning flash with an arrowhead symbol, within an equilateral triangle is intended to alert the user to the presence of uninsulated dangerous voltage within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

INFORMATION - This equipment has been tested and found to comply with limits for a Class A digital device, pursuant to part 15 of the FCC Rules & CE Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

WARNING - Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.

CAUTION : To prevent electric shock and risk of fire hazards:

- ☞ Do NOT use power sources other than those specified.
- ☞ Do NOT expose this appliance to rain or moisture.

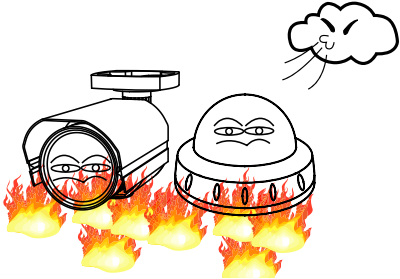
This installation should be made by a qualified service person and should conform to all local codes.

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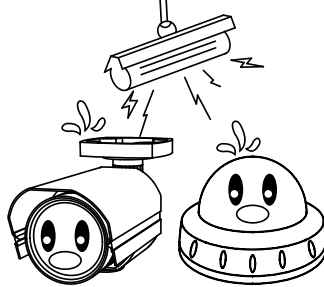
Precautions

Do not install the camera in extreme temperature conditions.



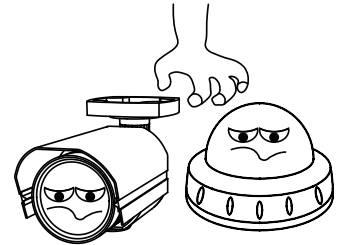
Only use the camera under conditions where temperatures are between -10°C and $+50^{\circ}\text{C}$. Be especially careful to provide ventilation when operating under high temperatures.

Do not install the camera under unstable lighting conditions.



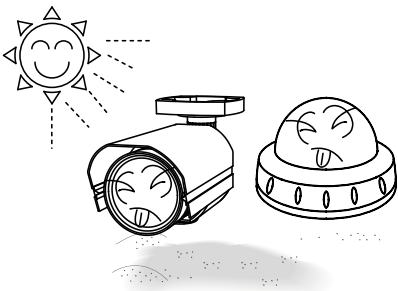
Severe lighting change or flicker can cause the camera to work improperly.

Do not touch the front lens of the camera.



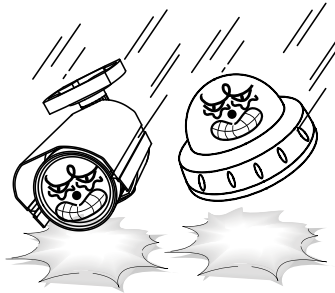
This is one of the most important parts of the camera. Be careful not to leave fingerprints on the lens cover.

Never keep the camera pointed directly at strong light.



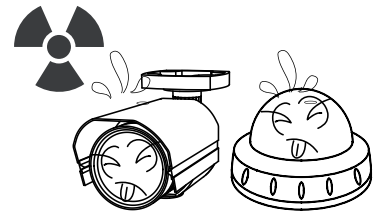
It can cause malfunctions to occur.

Do not drop the camera or subject it to physical shocks.



Severe lighting change or flicker can cause the camera to work improperly.

Do not expose the camera to radioactivity.



If exposed to radioactivity the CCD will fail.

NOTE

* If the camera is exposed to spotlight or object reflecting strong light, smear or blooming may occur.

* please check that the power satisfies the normal specification before connecting the camera.

Safety Instructions

Precautions for use

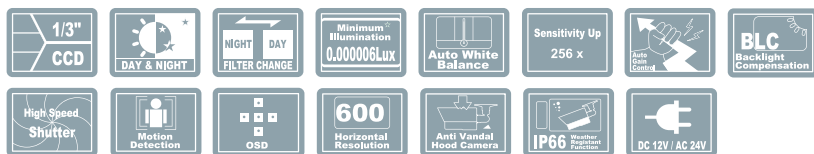
- ❶ This camera should be installed by qualified personnel only
- ❶ There are no user serviceable parts inside
- ❶ Do not disassemble this camera other than to make initial adjustments
- ❶ Use a UL approved regulated 24 volt AC or 12 volt DC power supply
- ❶ Use appropriate low voltage power cable to prevent fire or electrical shock
- ❶ Please insure that your installation area can support the weight of the camera

Please handle this camera carefully :

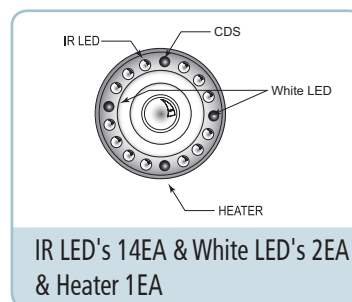
- ❶ Do not use a strong or abrasive detergent when cleaning the camera
- ❶ Do not install near cooling or heating device

White LED Camera

DC Auto Iris Varifocal Lens(4mm-9mm) / IR LED Built-in 14pcs + White LED 2pcs



- VL5700BPVF
- VL5700BPVFW
- 600TV Lines
- DC Auto Iris Varifocal Lens (4mm-9mm)
- True Day/Night Capability
- ICR-IR Cut Filter Removable
- 850nm IR LEDs * 14pcs
- White LED * 2pcs



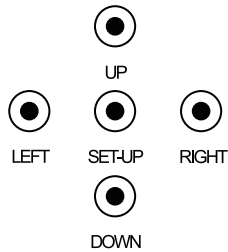
SPECIFICATIONS

MODEL	VL5700BPVF / VL5700BPVFW
Sensor	1/3" SONY Super HAD II CCD
Total Pixels	NTSC=811(H) * 508(V) / PAL=795(H) * 595(V)
Effective Pixels	NTSC=768(H) * 494(V) / PAL=752(H) * 582(V)
Scanning System	2:1 Interlace
Synchronization	Internal / Line Lock(Optional)
O.S.D	Available
Backlight	OFF / HSBL / BLC Selectable
Resolution	600TV Lines
S/N (Y signal)	52dB (AGC Off, Weight On)
Min. Illumination	0.000006 Lux(IR LED ON)
White Balance	ATW / AWB / Manual / AWC→SET
Electronic Shutter Speed	AUTO (1/50sec, 1/60sec ~ 1/100,000sec)
Sense-Up	Off / Auto(Selectable limit *2 ~ *256)
Gain Control	High, Middle, Low, Off Selectable
3 DNR	Off/On (1~50 Level Adjustable)
D-WDR	Indoor / Outdoor / Off
Motion Detection	On/Off (4 Zone)
Privacy	On/Off (8 Zone)
Mirror	Off / Mirror / V-Rev / Rotate
Freeze	On/Off
Sharpness	0~31'(Level Adjustable)
D&N Selection	Color /BW/ Auto/ EXT
Digital Zoom	On(*32) / Off
Blemish Compensation	Auto:128 Point
Heater	1EA
Power	DC 12V / AC24V(Dual Voltage)
Power Consumption	DC 12V 220mA(CDS OFF,Heater ON) / 400mA(CDS OFF,Heater ON) AC 24V 100mA(CDS OFF,Heater ON) / 150mA(CDS OFF,Heater ON)
Lens	DC Auto Iris Varifocal Lens(4mm-9mm)
IR Distance	15m
Operating Temperature/Humidity	14~122°F RH 95% Max.
Storage Temperature/Humidity	-4~140°F RH 95% Max.
Dimension	2.75"(W) * 3.54"(H) * 7.4"(D)
Weight	1.1 lbs

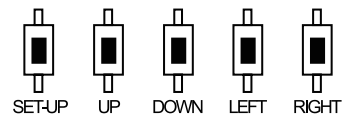
OSD Control Button

1. Type A, Type B, Type C of OSD button could be used when it needs to OSD control.
2. Type D is extra Option (wired Remote controller)

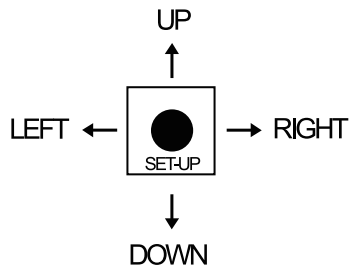
Type A



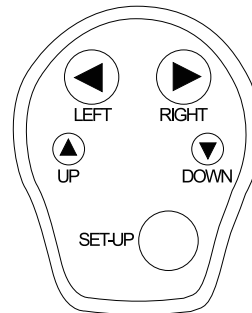
Type B



Type C



Type D (Option)



How to Set Up the camera menu

● Setup Menu

SET UP MENU	DEFAULT SET	MENU			
LENS	DC	BRIGHTNESS (0~100 Adjustable)			
		RETURN	RET END		
	MANUAL				
EXPOSURE	SHUTTER	AUTO, 1/60, 1/50, FLK, 1/250, 1/500, 1/1000, 1/2000, 1/5000, 1/10000, 1/100000, x256, x128, x64, x32, x16, x8, x4, x2			
	AGC	OFF			
		LOW			
		MIDDLE			
		HIGH			
	SENSE-UP	AUTO	SENSE-UP(x2 ~ x256 Level Selectable)		
			RETURN	RET END	
	BLC	BLC	OFF		
			GAIN	LOW	
				MIDDLE	
				HIGH	
				AREA	POSITION SIZE AGAIN
			DEFAULT		
			RETURN	RET END	
			HSBLC	LEVEL	0~8 Selectable
				MODE	ALL DAY NIGHT ONLY
				AREA	POSITION SIZE AGAIN
				DEFAULT	
				RETURN	RET END
			D-WDR	INDOOR	LOW-LEVEL (0 ~15 Adjustable)
	HIGH-LEVEL (0 ~15 Adjustable)				
	RETURN	RET END			
	OUTDOOR	LOW-LEVEL (0 ~15 Adjustable)			
HIGH-LEVEL (0 ~15 Adjustable)					
RETURN		RET END			
RETURN	RET END				
WHITE BAL	ATW				
	AWB				
	AWC->SET				
	MANUAL	BLUE (0 ~100 Level Selectable)			
		RED (0 ~100 Level Selectable)			
	RETURN	RET END			
INDOOR					
OUTDOOR					

DAY/NIGHT	COLOR			
	AUTO	DELAY (0 ~63 Adjustable)		
		D->N(AGC) (48 ~208 Adjustable)		
		N->D(AGC) (0 ~160 Adjustable)		
		RETURN	RET	
			END	
	EXT			
B/W	BURST	ON/OFF		
	IR SMART	ON	GAIN	
			AREA	
			RETURN (RET/END)	
	OFF			
3DNR	ON	LEVEL (RANGE 0 ~100 Level Selectable)		
		RETURN	RET	
			END	
	OFF			
SPECIAL	CAM TITLE	ON/OFF		
	D-EFFECT	FREEZE	ON/OFF	
		MIRROR	MIRROR	
				V-FLIP
				ROTATE
				OFF
	D-ZOOM	ON	D-ZOOM (x1 ~ x32)	
			PAN (-100 ~ 100)	
			TILT (-100 ~ 100)	
			RETURN (RET/END)	
		NEG. IMAGE	ON/OFF	
		RETURN	RET	
			END	
	RS485 (OPTION)	CAM ID		
		ID DISPLAY	ON/OFF	
		BAUDRATE		
		RETURN	RET	
			END	
	MOTION	ON	AREA SELECT (AREA1 ~ AREA4)	
			AREA DISPLAY	POSITION
				SIZE
				AGAIN
			SENSITIVITY (0 ~ 40)	
		MOTION VIEW	ON/OFF	
		RETURN	RET	
		END		
	OFF			
PRIVACY	ON	AREA SELECT		
		AREA DISPLAY	POSITION	
			SIZE	
			AGAIN	
		COLOR		
	RETURN	RET		
		END		
	OFF			
SYNC (OPTION)	INT			
	L/L			

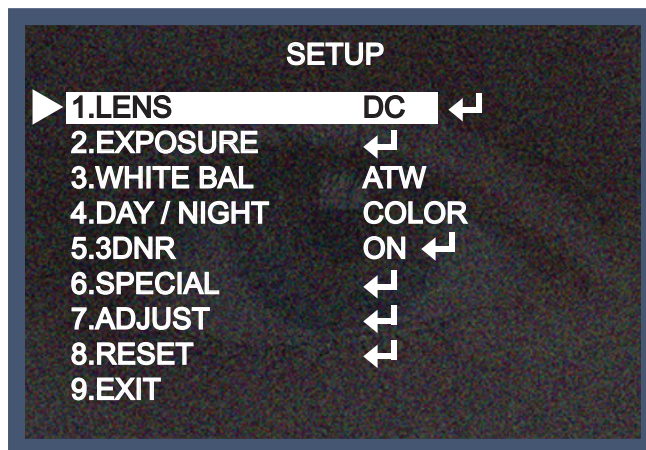
	DEFECT	SENSE-UP (x4 ~ x64)		
		DIFFERENCE (1 ~6)		
		START		
	RETURN	RET		
	END			
RETURN	RET			
	END			
ADJUST	SHARPNESS	0 ~31 Level Adjustable		
	MONITOR	CRT	LEVEL (0 ~63)	
			BLUE GAIN (0 ~100)	
			RED GAIN (0 ~100)	
		RETURN	RET	
		END		
		LCD	GAMMA (USER ~ 1.00)	
	LEVEL (0 ~63)			
	BLUE GAIN (0 ~100)			
	RETURN	RET		
	END			
	USER	GAMMA (USER ~ 1.00)		
		LEVEL (0 ~63)		
		BLUE GAIN (0 ~100)		
		RED GAIN (0 ~100)		
RETURN	RET			
END				
RETURN	RET			
END				
RESET	FACTORY	RESET		
	RETURN	RET		
		END		
EXIT				

Menu Set Up

Menu items can be selected by using the OSD buttons of the camera

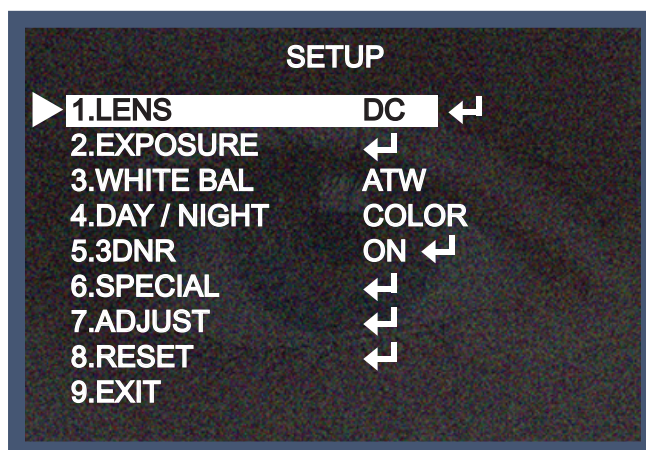
1. Press the Set Up button.

* The Set Up menu will be displayed on the monitor.



2. Move and select the required function using the Up and Down button.

* Move the arrow indicator Up or Down to select the desired feature by pressing the Up or Down button.



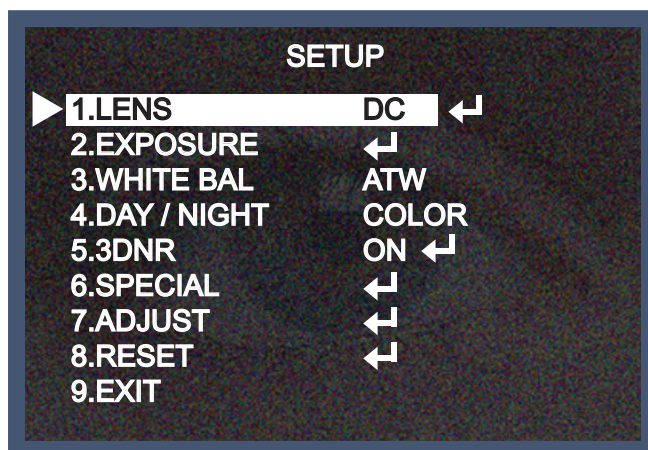
3. Change menu settings using the Left or Right button.
- * Available values or Status are displayed by pressing the Left or Right buttons.
Press the button until desired value / status is displayed.
4. After Changing the setting move the arrow indicator to EXIT and press the SET button to EXIT.

NOTE

- * Move to the available submenu by moving ← arrow to desired feature.
- * Submenu is not available when this symbol is display "----"

Lens

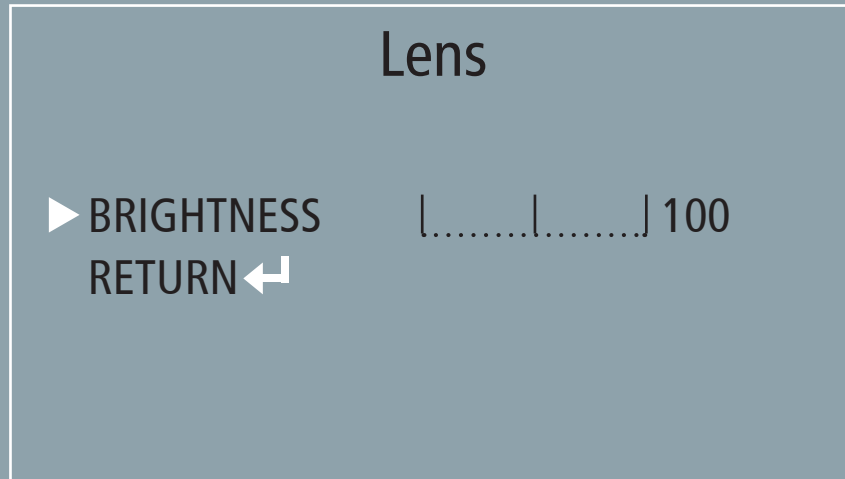
1. Move the arrow indicator to LENS using the Up and Down buttons on the Set Up menu screen.
2. Select the desired lens type by pressing the Left or Right button.



→ DC:DC Auto Iris Lens

NOTE

* When DC is selected, the brightness can be adjusted. The brightness control range is 1 ~ 100.

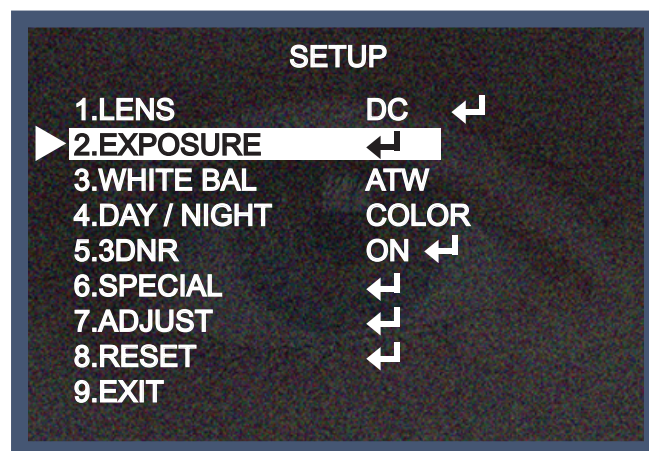


3. Press the RETURN to return to the SETUP menu.

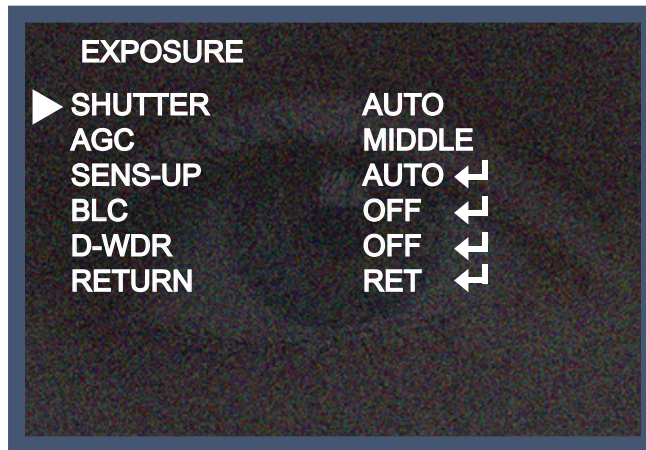
Exposure

This function is used to select Automatic or Manual shutter speed control.

1. On the Set Up menu screen select EXPOSURE by using the Up or Down button.
2. Select the desired shutter mode by pressing the Left or Right button.



* FLK : Select FLK mode when flickering occurs; caused by the unmatched frequency of electric lights.



NOTE

*Shutter: Select Shutter using the Up or Down button, you can adjust the shutter speed from 1/60, FLK, 1/250~1/100,000.

→FLK: Select FLK mode if flickering occurs; caused by the unmatched frequency of electric light. If select FLK mode, sense-up does not operate.

* AGC(AUTO GAIN CONTROL):

A higher gain increases brightness but also increases any noise.

OFF : Deactivates the AGC function

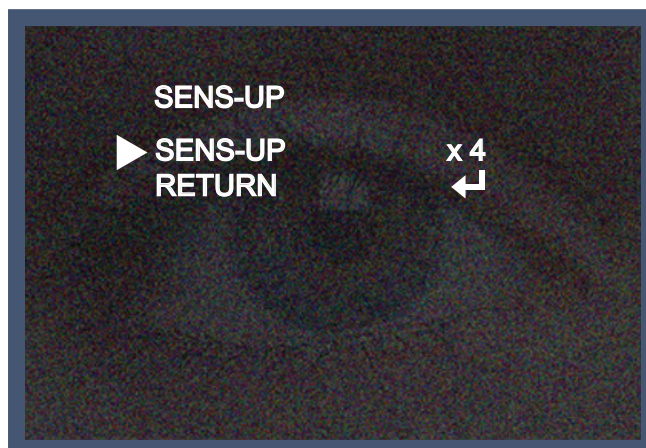
LOW : Sets automatic gain control to LOW.

MIDDLE : Sets automatic gain control to MIDDLE.

HIGH : Sets automatic gain control to HIGH

* SENS - UP:

At night and/or in dark conditions, the Sens-Up mode can be selected to desired value from x2 ~ x256.



* RETURN:

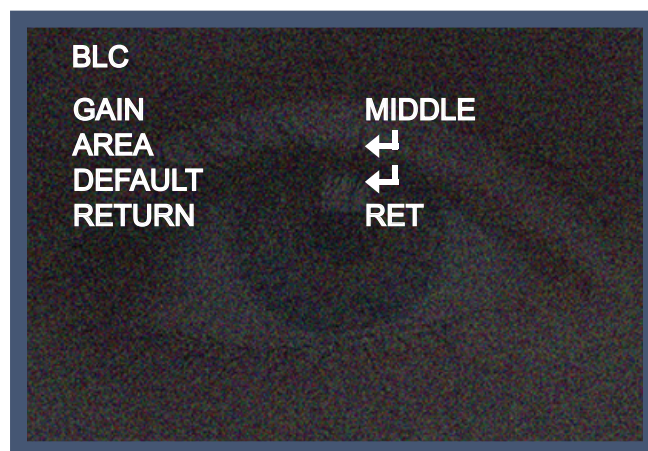
Select Return to save the changes in the EXPOSURE menu and return to the SETUP menu.

NOTE

- * Pressing the SET button in AUTO mode allows adjustment of image brightness by increasing or decreasing the shutter speed (x2 ~x256).
- * The higher the level, the brighter the image becomes, but it is possible that an after image (ghosting) could appear.
- * When SENS-UP is activated the increased magnification can induce noise and pixelation; this is quite normal.

Back Light(BLC)

This camera which is using 3D-DNR DSP provides intelligent light level control to overcome even strong backlight conditions.



* OFF: BLC function does not operate.

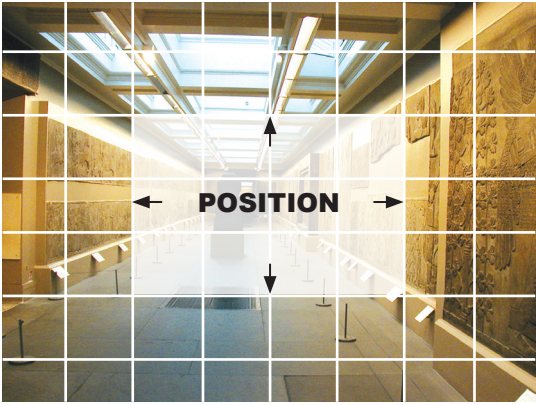
* BLC: Select LOW/MID/HIGH

User can select and define a specific area in scene and view the area clearly.

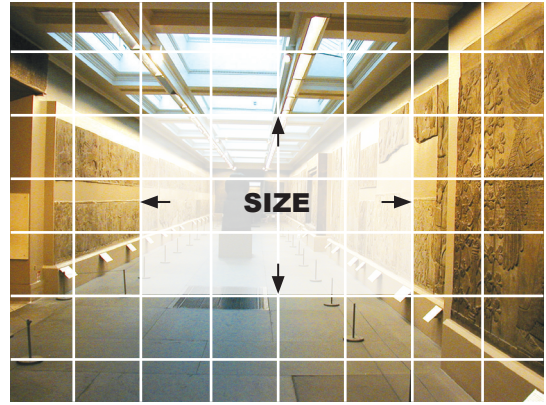
Press the "ENTER" button at the AREA menu, you can change the area like a picture 1.

Press the "ENTER" button again after area setting, you can change the area like a picture 2.

Default: Press the Default to return to factory defaults.



PICTURE 1



PICTURE 2

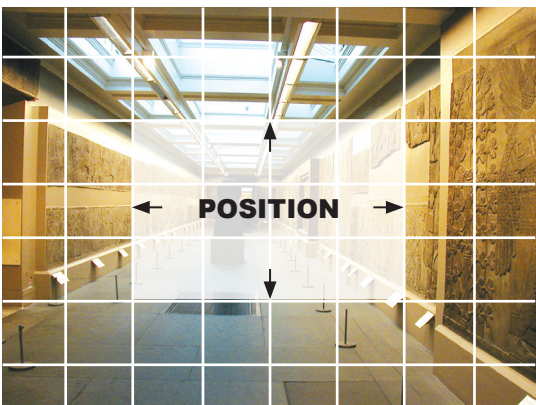
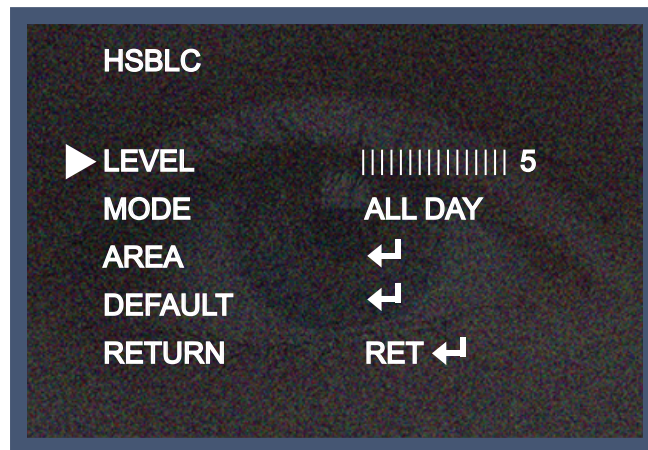
* HSBLE: HSBLC function is especially effective for reading car number plates at the night time.

You can select and define the required observation area for the target object and ignore a strong light area.

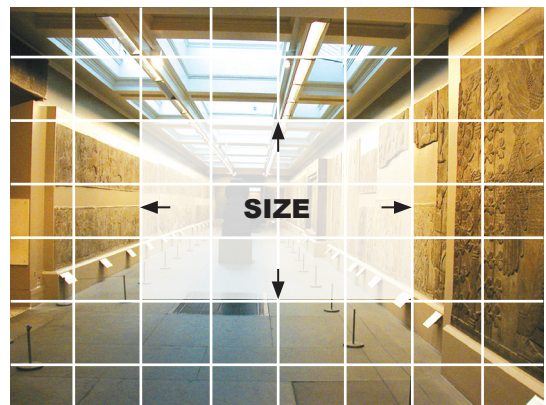
Press the "ENTER" button at the AREA menu, you can change the position as shown in Picture 1.

Press the "ENTER" button again after area setting, you can change the position as shown in Picture 2.

Default: Press the Default to return to factory defaults.



PICTURE 1



PICTURE 2



HSBLC OFF



HSBLC ON

* D-WDR: This camera which is using 3D-DNR DSP provides intelligent light level control to overcome even strong backlight conditions.

→OFF: D-WDR function does not operate.

When there are simultaneous bright & dark image area WDR makes them both distinct and can be selected as OUTDOOR and INDOOR.



D-WDR OFF



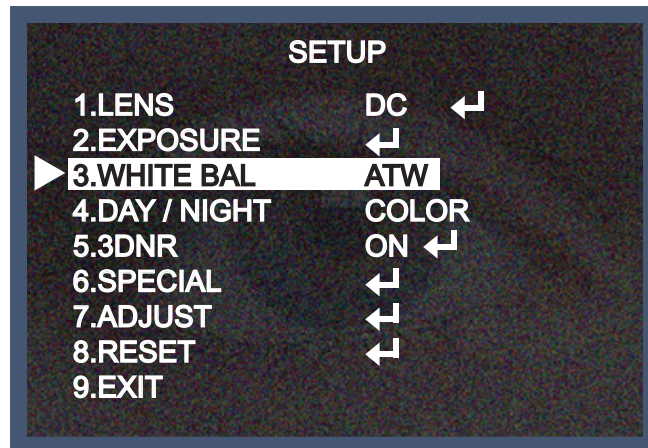
D-WDR ON

* RETURN: Select Return to save the changes in the EXPOSURE menu and return to the SETUP menu.

White Balance

The White Balance function is used to control the "on-screen" colors.

1. Move the arrow indicator to WHITE BAL on the SETUP menu screen using the Up and Down button.
2. Select the desired mode by using the Left or Right button.



* **There are three user selectable White Balance settings available.**

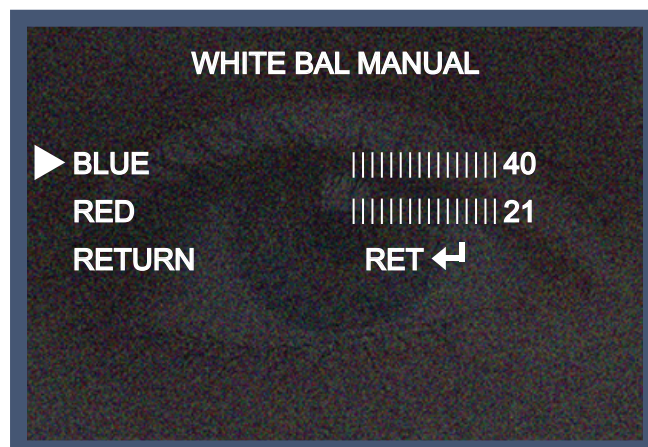
* ATW : (Auto Tracking White Balance)

Normal setting; when the color temperature range is from 1,800°K to 10,500°K. (Ex: a fluorescent lamp or outdoors)

* AWB : The White Balance is automatically adjusted in a specific environment.

* AWC → SET : To obtain the best results press the SET button while the camera is focused onto white paper. If the environment, and/or light source changes, the White Balance will require re-adjustment.

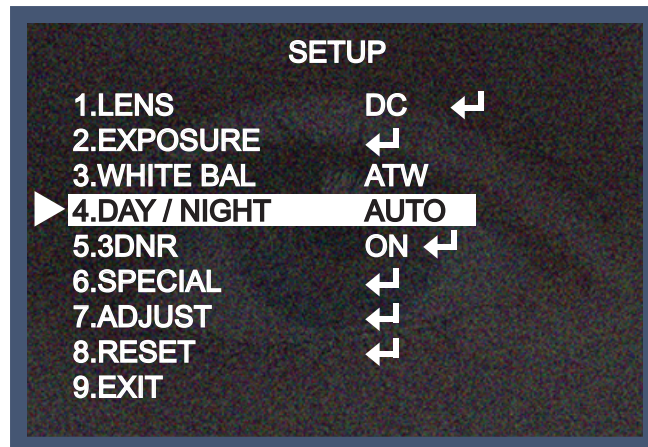
* MANUAL : Used for fine adjustment of White Balance. Set White Balance first using ATW or AWC then change to MANUAL and press SETUP button. Increase or decrease the value of R-Gain(Red) and B-Gain(Blue) while monitoring the color of the image.



Day / Night

Picture can be displayed in either colour of black and white.

1. Select DAY / NIGHT using the Up or Down button on the SETUP menu screen.



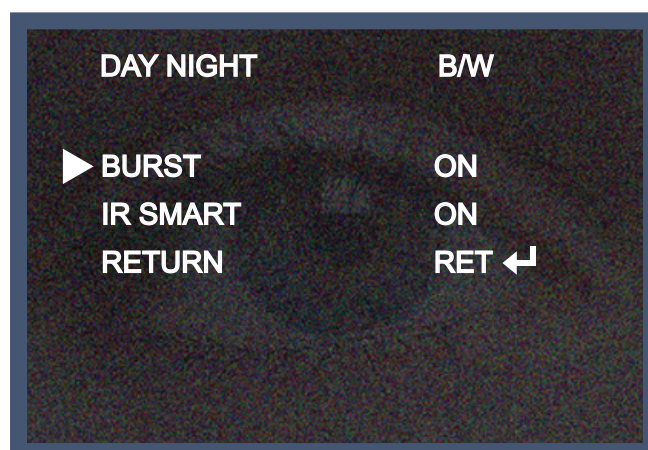
2. Select the desired mode using the Left and Right buttons.

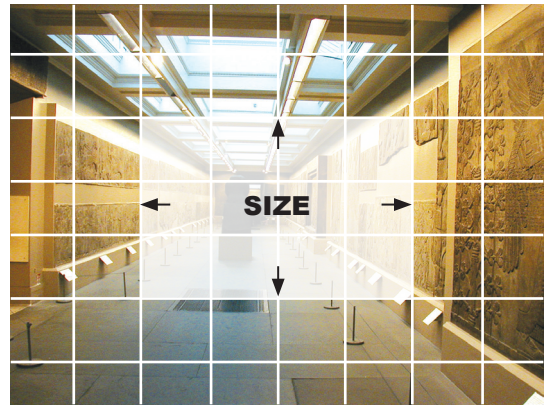
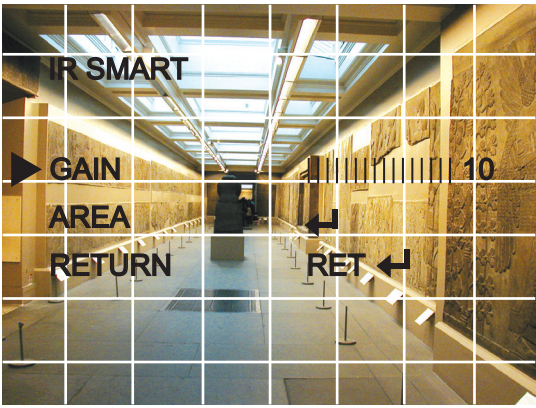
* COLOR : The picture is always displayed in color.

* BW : This picture is always displayed in black and white.

Select BW using the button and press the menu to activate COLOR BURST option.

IR SMART : It controls the IR LED(bright portion base), saturation is not expected.





AREA



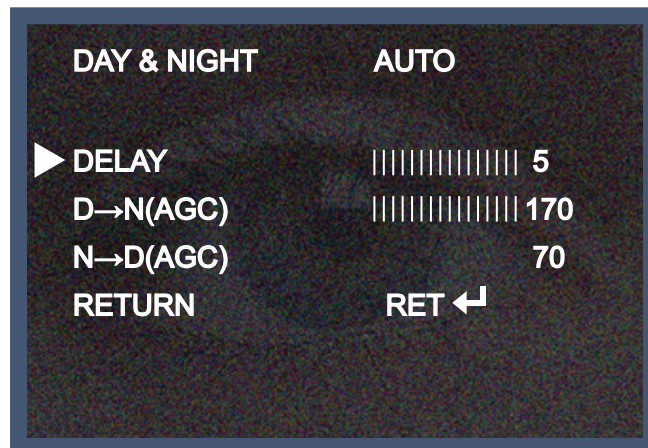
SMART IR OFF



SMART IR ON

→ AUTO: The mode will automatically switches to COLOR in normal condition and switches to BW mode when ambient illumination is low.

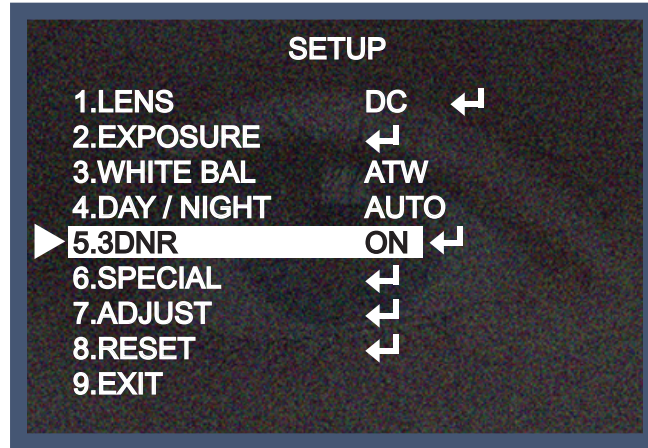
Press the SET button to set the switching time or D→N(AGC), N→D(AGC) in AUTO mode.



3DNR

3DNR is used to reduce the level of background noise in a low luminance environment.

1. Move the arrow indicator to 3DNR by using the Up and Down button.



2. Select whether or not to activate 3DNR by using the Left and Right buttons.

* ON: Activates 3DNR - Digital noise reduction can be adjusted between 0 ~ 100.

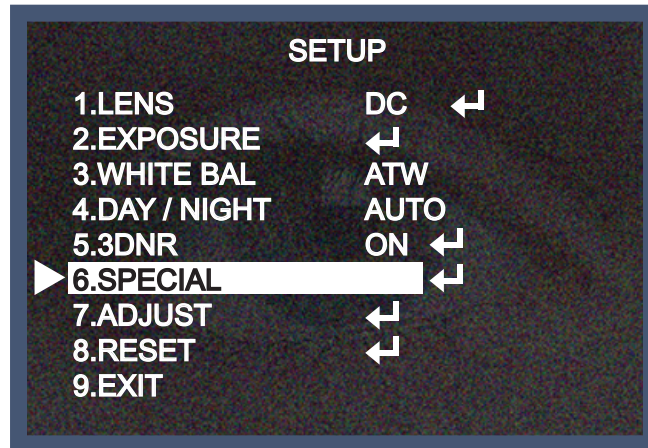
* OFF: Deactivates 3DNR - noise is not reduced.



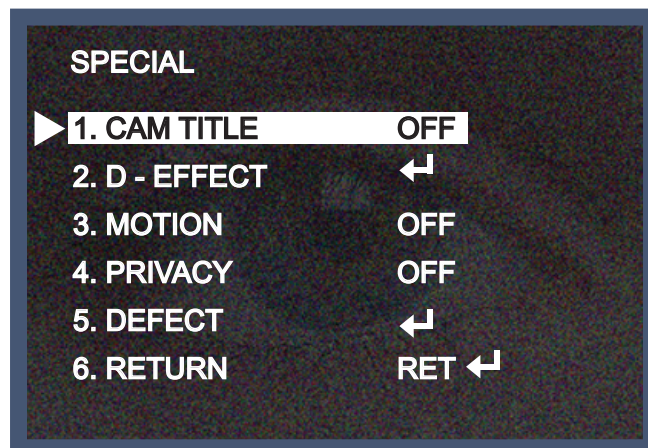
* Select RETURN by using the Up or Down button to return to Set Up menu.

Special

When the SETUP menu screen is displayed, select SPECIAL using the Up and Down buttons.



Select one of the mode using the Up and Down button.



1. CAM TITLE : When input, the Camera ID is displayed on the monitor.

1-1) Move the arrow indicator to CAMERA ID using the Up or Down button on the SETUP menu screen.

1-2) Set to ON using the Left or Right button.

NOTE

* When CAMERA TITLE is set to OFF, the CAMERA TITLE is not displayed on the monitor.

1-3) Press the SETUP button.



1-4) The CAMERA TITLE can be up to 15 alphanumeric characters in length.

① Move the cursor to choose an alphanumeric character.



② Choose a character in displayed range A~Z, a~z, 0~9 using the Up, Down, Left and Right buttons.

③ Select the desired character by pressing the SETUP button.

- The cursor moves to the next position, after character input, by pressing the SETUP button.

④ Repeat the above steps until the Camera ID has been created.

NOTE

* In cases where the wrong Camera ID has been input.....

Move the cursor to CLR and press SETUP button to erase characters from left to right, and repeat the above steps to input the characters again.

1-5) To select the position where the Camera ID should be displayed on the screen.

① Move the cursor to POS and press the SET button.



② Created camera ID is displayed.

(Factory default position)

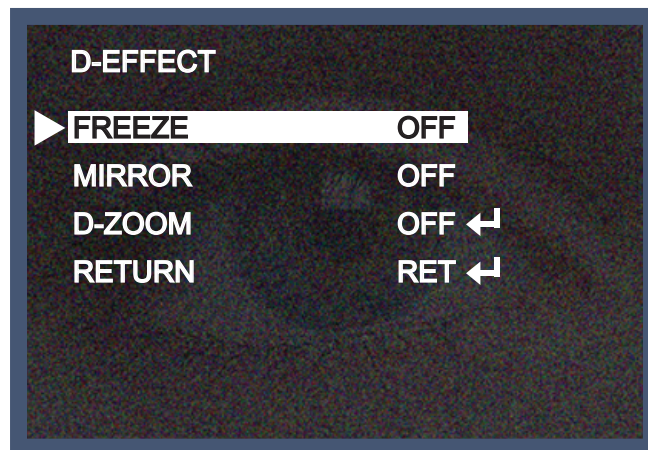


③ Select a new position by using the four directional button, Press the SET button to confirm the position.

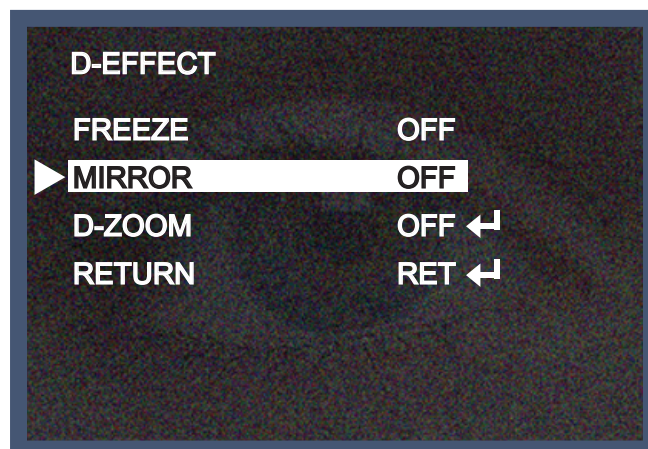


2. D - EFFECT

Move the cursor to D-EFFECT and press the SET button to set the other image functions.



2 -1) MIRROR : Flip the image horizontally on the screen.



- * V-FLIP : Flip the image vertically on the screen.
- * ROTATE : Flip the horizontal image vertically on the screen.
- * OFF : Disabled.



MIRROR ON

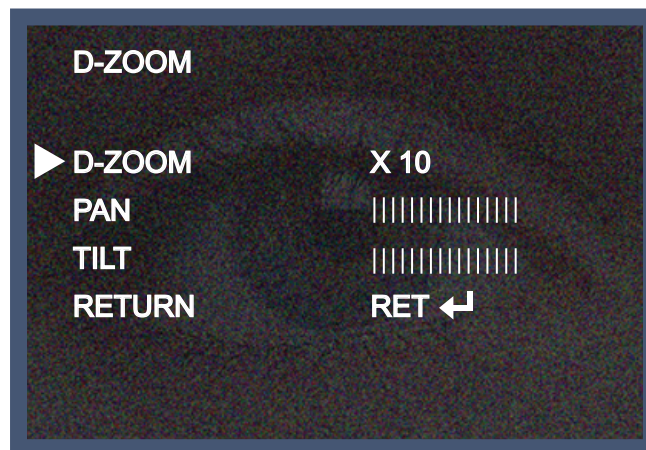


MIRROR OFF

2-2) D - ZOOM: Digital zoom available, range x1 ~ x32.

PAN : The pan range can be controlled between -10 ~ + 100

TILT : The tilt range can be controlled between -10 ~ + 100



NOTE

* PAN and TILT function should be available when using the digital zoom.

2-3) GAMMA : Desired gamma values can be adjusted between 0.05 ~ 1.00.

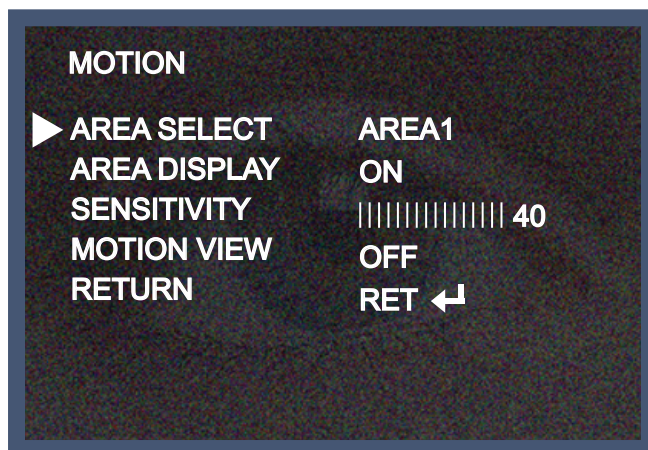
2-4) NEG. IMAGE :

ON : Activates negative image just like film

OFF : Normal image

2-5) RETURN : Move the arrow indicator to RETURN after complete the setup to return to SPECIAL menu.

3. MOTION



3-1) When the special menu screen is displayed, use the Up or Down button to access the MOTION menu.

AREA SELECT : You can select from area 1~4 position.

AREA DISPLAY) ON: Display the Motion Detected area on the screen. You can set the location and size like a picture 1,2.

SENSITIVITY: To setup the motion sensitivity. You can adjust the motion sensitivity of a movement between level 0~40.

MOTION VIEW : If camera detects movement, the words of "MOTION DETECTION" will appear on the monitor.

RETURN : To return to the SPECIAL menu after completing the setup.

MOTION ON : White LED(2EA) ON

4. PRIVACY

Hide an area you want to hide on the screen.

4-1). When the SPECIAL menu screen is displayed, press the Up and Down buttons to set to PRIVACY.



4-2). Set up the area mode using the 4 direction buttons.

① AREA SELECT : You can select up to 8 MD area.

② AREA DISPLAY : OFF : Disabled

ON : Activates area displa

- ③ Move the arrow indicator to WIDTH to make desired width of cells to increase or decrease by using the Left / Right button between the level 0 ~ 100.
- ④ Move the arrow indicator to HEIGHT to make desired height of cells to increase or decrease by using the Left / Right button between the level 0 ~ 100.
- ⑤ Move the arrow indicator to the LEFT / RIGHT and TOP / BOTTOM to select the desired area position by using the LEFT or RIGHT button.
- ⑥ Move the arrow indicator to COLOR to select the desired color of each area cells by using the Left / Right button to select between the 15 different color.

RETURN : Move the arrow indicator to RETURN after completing the setup to return to SPECIAL menu.

4-3) SYNC : INT (Internal Synchronisation)

Move the arrow indicator to RETURN after complete the setup to return to SETUP menu.

5. DEFECT

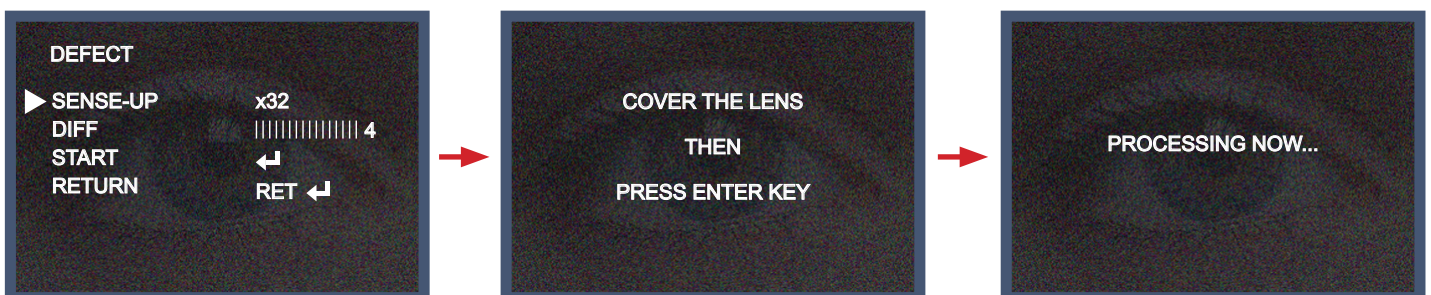
You can eliminate white spots (defect) up to max 128 point.

SENSE-UP : To eliminate defect, set the high level of sense-up. You can set to max 64x, but 32x is best to eliminate defect.

DIFF : You can set the size of DEFECT from 1 to 6.

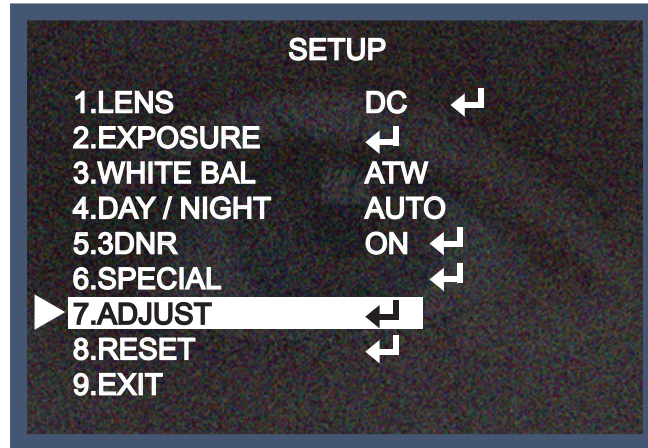
START : Press the "ENTER" button, it will start to eliminate defects "PROCESSING NOW..." will be displayed on the monitor.

In case of manual IRIS lens, you should cover the lens.

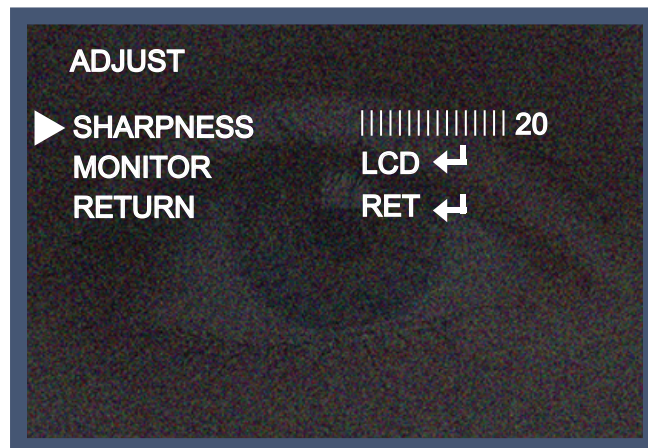


ADJUST

1. When the SETUP menu screen is displayed, select ADJUST using the Up and Down buttons.



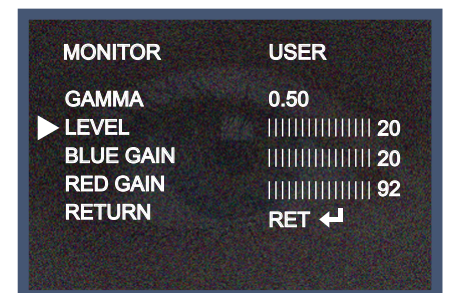
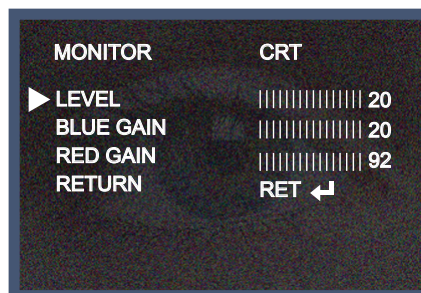
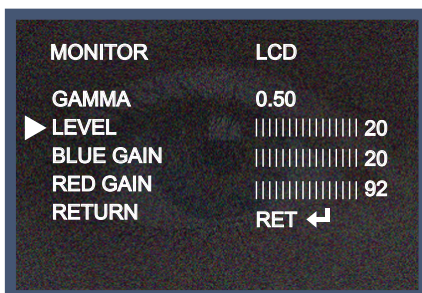
2. Select the desired mode by using Up or Down button..



SHARPNESS : Improving image clarity. The level can be adjusted to obtain an improved image.

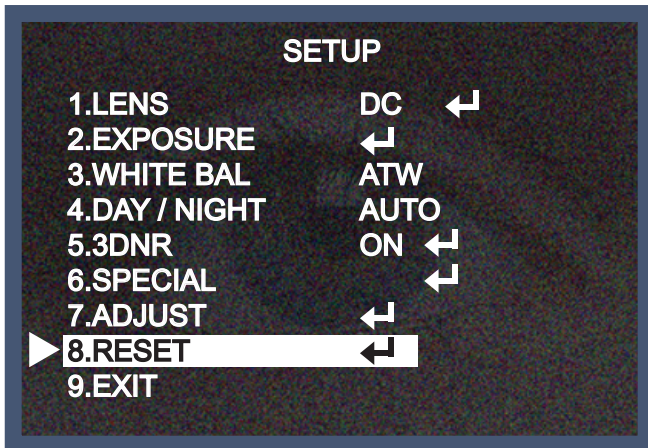
However, when the level is set too high it can distort the image or cause noise.

You can adjust from level 1 to 31, and can set to monitor function as LCD, CRT and USER.



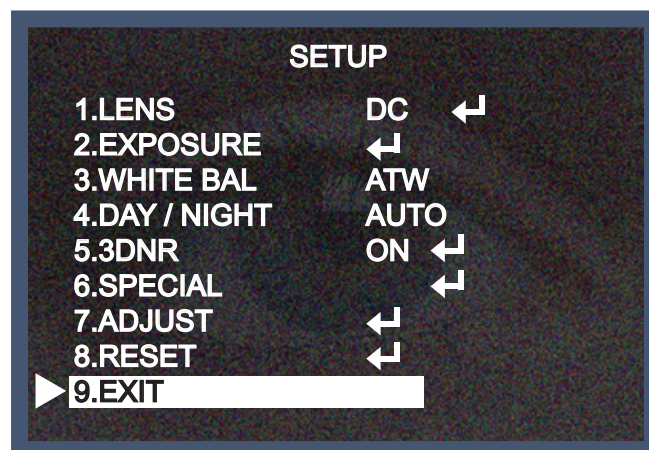
RESET

Resets the camera settings to the factory defaults.



EXIT

Press the SET button in the EXIT menu to save the current settings and exit the SETUP menu.



Trouble Shooting

PROBLEM	POSSIBLE CAUSE
Nothing appears on the screen.	<ul style="list-style-type: none"> ☞ Check the power cable, power supply output and video connection between the camera and monitor.
The image on the screen is dim.	<ul style="list-style-type: none"> ☞ Are the camera lens or the lens glass dirty? Clean the lens / glass with a soft clean cloth. ☞ Adjust the monitor controls, as required. ☞ If the camera is facing a very strong light, change the camera position. ☞ Adjust the lens focus.
The image on the screen is dark.	<ul style="list-style-type: none"> ☞ Adjust the contrast control of the monitor. ☞ If there is an intermediate device, correctly set the 75Ω/Hi-z.
The camera is not working properly and the surface of the camera is hot.	<ul style="list-style-type: none"> ☞ Check the camera is correctly connected to an appropriate regulated power source.
Motion Detection is not activated.	<ul style="list-style-type: none"> ☞ Has MOTION DET been set to ON in the menu? ☞ Has MD AREA been properly defined?
The color of the picture is not correct.	<ul style="list-style-type: none"> ☞ Check the settings in WHITE BALANCE menu.
The image on the screen flickers.	<ul style="list-style-type: none"> ☞ Make sure that the camera isn't facing direct sunlight or fluorescent lighting. If necessary, change the camera position.
The SENS-UP does not work.	<ul style="list-style-type: none"> ☞ Check that the AGC setting in the EXPOSURE menu is't set to OFF. ☞ Check the EXPOSURE menu and make sure SHUTTER is set to-----.



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	Amplifiers	5 Years
	PA Horns, Microphones, Volume Controls	2 Years
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2. No discounted item may be returned for credit or exchange.
3. An order of \$3.00 for every \$1.00 to be returned must accompany a request for return for stock adjustment.
4. There will be a minimum charge of 15% for handling and repacking where necessary. Merchandise returned for credit or exchange with missing or damaged packaging or accessories will be charged accordingly. Merchandise returned for repair will be shipped back repaired but in the same physical condition as when received by us. If repacking or refurbishing is requested, where possible, you will be charged accordingly.
5. If a credit is issued, current best quantity price or price when purchased, whichever is lower, will prevail.

BACK ORDERS

Products not immediately available for shipment will be back ordered and shipped as soon as available, unless we are advised to cancel back orders. The original order will determine basis of shipment. If the original order is freight allowed, back orders will be freight allowed. If the original order does not qualify for freight allowance, back orders will be shipped freight collect or shipping and handling charges added to the invoice.

PROMOTIONAL MATERIAL

Requests for nominal amounts of catalogs, brochures, promotional sheets, etc. will be supplied at no charge. Requests for bulk quantities of promotional materials will be billed on a cooperative 50-50 basis.

CLAIMS

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