

Smart Zoom Series OSD User Manual

Thanks for purchasing our product. Before operating the unit, please read the instructions carefully and keep this manual for future reference.

Safety Warning

1. Read this manual carefully before installing the unit

Please read this manual first for correct installation and operation.

2. Never install the camera on a ceiling that cannot hold its weight

The product may fall down and cause damages.

3. Never install the camera near electric or magnetic fields

Install the camera away from TV, radio transmitter, magnet, electric motor, transformer, audio speakers since the magnetic fields generate from above devices would distort the video image.

4. Never install or use the camera in areas exposed to water, oil or gas

The water, oil or gas may result in operation failure, electric shock or fire. Do not use this unit near water-for example, near a bath tub, wash bowl, kitchen sink, or laundry tub, in a wet basement, near a swimming pool, in an unprotected outdoor installation, or any area which is classified as a wet location.

5. Never face the camera toward the sun

Direct sunlight or severe ray may cause fatal damage to sensor and internal circuit.

6. Power Cord Protection

Touching the wet power cord with hands or touching the power cord with wet hands may result in electric shock. Power supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, playing particular attention to cords and plugs, convenience receptacles, and the point where they exit from the appliance.

7. Attachments

Do not use attachment not recommended by the product manufacturer as they may cause hazards.

8. Object and Liquid Entry

Never push objects of any kind into this product through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind onto the product.

9. Do not operate the camera in environments where the temperature, humidity or

power source is beyond the specified ones

Use the camera in suitable environments where the temperature is within -10°C~50°C and humidity below 80%. Use the input power source as this instruction indicated.

10. Cleaning

Unplug the unit from the outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.

11. Never disassemble the camera nor put impurities in it

Disassembly or impurities may result in trouble or fire.

12. Stop using when the product emits smoke or abnormal heat

13. Servicing

Do not attempt to repair this unit yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

14. Retain Instructions

THE SAFETY AND OPERATING INSTRUCTIONS SHOULD BE RETAINED FOR FUTURE REFERENCE.

NOTE:

The information in this manual was current when published. The manufacturer reserves the right to revise and improve its products. All specifications are therefore subject to change without notice.

User Manual

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1. OSD Operation

1.1 OSD Control Buttons

Box Camera 1: Side Panel	Box Camera 2: Back Panel
Dome Camera 1	Dome Camera 2 / Bullet Camera
●ENTER ↓U L ◀ ◯ ▶R ▼D	
Bullet Camera	
	Note : The manufacturer reserves the right to revise and improve its products. All specifications are therefore subject to change without notice.

① **UP**

Use this button to move the cursor upwards to the desired item.

2 RIGHT

Use this button to move the cursor to the right to select or to adjust the parameters of the selected item. The parameter increases when the right button is pressed.

3 DOWN

Use this button to move the cursor downwards to the desired item.

4 LEFT

Use this button to move the cursor to the left to select or to adjust the parameters of the selected item. The parameter decreases when the left button is pressed.

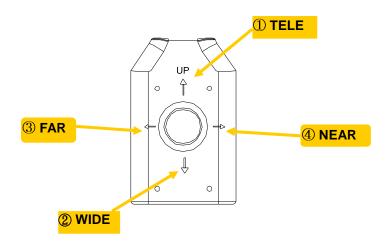
5 ENTER

Use this button to display the main menu, to confirm and to enter the submenus when they're available. Items with the symbol "<J" in the end contain sub-menus. For further settings of those items, select the desired item with the button \blacktriangle or \checkmark and press the ENTER button to bring up the sub-menu and edit.

1.2 Motorized Zoom Operation

*To Use Motorized Zoom via OSD Control Buttons:

Please **DO NOT Enter OSD**. If you have accessed the OSD menu, please **EXIT before using** the motorized zoom function. Zoom and Focus functions can be operated either by **clicking** or **long pressing** the corresponding buttons.



1) TELE

Use this button to **Zoom IN**.

2 WIDE

Use this button to Zoom OUT.

 \bigcirc FAR

Use this button for Manual Focus "FAR".

4 NEAR

Use this button for Manual Focus "NEAR".

1.3 OSD Operation

\mathcal{C}	MENU
LENS EXPOSURE WDR/BLC WHITE BAL DNR DAY/NIGHT IMAGE EFFECT SYSTEM EXIT <j< th=""><th>AUTO IRIS<j <j D-WDR<j ATW<j <j AUTO<j <j <j <j< th=""></j<></j </j </j </j </j </j </j </j </th></j<>	AUTO IRIS <j <j D-WDR<j ATW<j <j AUTO<j <j <j <j< th=""></j<></j </j </j </j </j </j </j </j

1. Start to operate the OSD menu

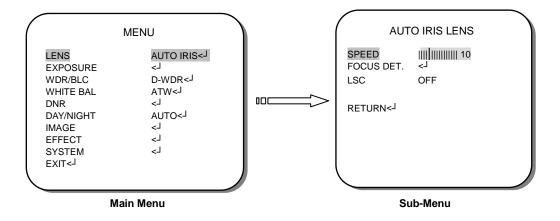
Press the **ENTER** button to bring up the OSD main menu to start operating OSD menus.

2. Select items with the cursor buttons

- Use buttons ▲ and ▼ to move the cursor up and down.
- Use buttons ◄ and ► to switch the modes or to adjust the parameters or the values of the settings.

3. Switch to the sub-menu

Items with the symbol "<" in the end contain sub-menus. For further settings of those items, select the desired item with the button \blacktriangle or \checkmark and press the **ENTER** button to bring up the sub-menu and edit.



4. Return to the previous page

Select **RETURN** and press the **ENTER** button to return to the previous page.

5. Exit the OSD menu

Select **EXIT** and press the **ENTER** button to save the settings and exit the OSD menu.

2. Camera OSD

To operate the camera OSD setting, use the control key pad to control it. For some models, you might need to open the control panel case to access the control key panel. Press the **Enter** button which in the center of the control panel to bring up the "**MENU**" on the TV/Monitor screen as below. Please check the OSD content tables to find out the function you need.

*Note: Function Names and Default Values may vary depending on models.

	MENU	
Q	LENS	AUTO IRIS
*	EXPOSURE	¢Ĵ
0	HDR/BLC	D–WDR₊i
0	WHITE BAL	AWB
	DNR	ن ه
Þ	DAY/NIGHT	AUT04
	IMAGE	ل م
	EFFECT	له
:0:	SYSTEM	ل ې
Ø	EXIT,∔	

Menu

MENU	Default Value	Alternative Options	
LENS	AUTO IRIS <j< td=""><td>MANUAL<j< td=""></j<></td></j<>	MANUAL <j< td=""></j<>	
EXPOSURE	<7	See Exposure Table	
HDR/BLC	D-WDR <j< td=""><td>OFF, HDR<j, blc<j<="" hlc<j,="" td=""></j,></td></j<>	OFF, HDR <j, blc<j<="" hlc<j,="" td=""></j,>	
WHITE BAL	AWB	PUSH LOCK<-1, MANUAL<-1, ATW	
DNR	<7	See DNR Table	
DAY/NIGHT	AUTO<-	B/W< [」] , COLOR, EXTERNAL< [」] or IR SYNC< [」]	
IMAGE	<7	See Image Table	
EFFECT	<7	See Effect Table	
SYSTEM	<7	See System Table	
EXIT	<1		

Exposure

EXPOSURE	Default Value	
MODE	INDOOR	
BRIGHTNESS	7	
FLICKER	OFF	
SHUTTER	AUTO<-	
SENSE UP	OFF	
AGC MAX	18	
RETURN	<	

DNR

DNR	Default Value	
SMART DNR	ON	
2DNR	LOW	
3DNR	OFF	
RETURN	۲>	

Image

IMAGE	Default Value
SHARPNESS	3
LOW LUX SHARP	2

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SATURATION	10	
GAMMA	0.55	
MIRROR	OFF	
FLIP	OFF	
BLACK LEVEL	10	
RETURN	<_	

Effect

EFFECT		Default Value	
SMART ZOOM	OFF		
MOTION	OFF		
PRIVACY	OFF		
DEFOG	OFF		
RETURN	<7		

System

SYSTEM	Default Value	
DIGITAL OUT	1080P	
FRAME RATE	30 FPS	
ANALOG OUT	NTSC	
DVR	<_	
CABLE LENGTH	0-200M	
COLORBAR	OFF	
LANGUAGE	ENGLISH	
FW 4.0 AHU4D	160901132NBXNC04	
RESTORE	NO	
RETURN	<1	

2.1 Menu

In the "**MENU**" of camera OSD, there are several sub-menus and items can be selected to modify the settings.



LENS:

To select the lens is on AUTO IRIS or on MANUAL.

EXPOSURE:

This is a sub-menu for exposure setting. Please check the details in its section.

HDR/BLC:

To select the mode of HDR/BLC. Models with **PoC** function have **no WDR option**.

WHITE BAL:

To select the mode of white balance: ATW, AWB, MANUAL, PUSH LOCK.

DNR:

To adjust the mode of DNR. **2DNR/3DNR** can be set among **OFF/LOW/MID/HIGH** options and the default is LOW.

DAY/NIGHT:

To select the mode of day/night. **EXTERNAL** is shown as **IR SYNC** in non-box type models.

IMAGE:

This is a sub-menu for image setting. Please check the details in its section.

EFFECT:

This is a sub-menu for effect setting. Please check the details in its section.

SYSTEM:

This is a sub-menu for system setting. Please check the details in its section.

EXIT:

After you finished all the settings, to exit the OSD, please select the "**EXIT**" on the "**MENU**". Just push the "**Enter**" button, and then it will quit the setting menu.

2.1 LENS

In the "LENS" page of the camera OSD, there are some items can be selected to modify the settings. Users can switch lens mode between AUTO IRIS and MANUAL and adjust the optical settings accordingly.

AUTO IRIS	LENS		
		MANUAL I	LENS
IRIS SPEED	խատվատով10		
ZOOM SPEED	խուստուիսվ15	ZOOM SPEED	խոստախով15
LSC	OFF	LSC	OFF
D-ZOOM LIMIT	2,0X	D-ZOOM LIMIT	2.0X
NEAR LIMIT	5M	NEAR LIMIT	5M
D/N FOCUS	ON	D/N FOCUS	ON
D/N PRESET	(D/N FOCUS ON)	D/N PRESET	(D/N FOCUS ON)
RETURN↓		RETURN 🕹	
AU	TO IRIS LENS	MAN	UAL LENS

IRIS SPEED/ZOOM SPEED:

To modify the value of lens IRIS SPEED/ZOOM SPEED accordingly.

LSC:

To enable or disable the function of Lens Shading Compensation. **WEIGHT** level (Default 80%) can be further adjusted when LSC is ON. (See below)

-07	LENS 17:46:32	SHADING	COMP
	WEIGHT	86	%
	RETURN	1	

LSC ON

D-ZOOM LIMIT:

To adjust the digital zoom maximum level from 1.0X to 8.0X.

NEAR LIMIT:

To adjust the nearest focusing distance between 1M and 5M. It's recommended to select 5M when the object is over 5M to save the focusing time.

D/N FOCUS:

Default is ON. Please note that enabling this function will automatically disable D/N PRESET.

D/N PRESET:

Please must disable D/N FOCUS and SMART ZOOM to enable this function. Also, please do adjust PRESET for DAY at day time and NIGHT at night time separately to ensure the appropriate focus for the clearness of the target.

VIEW ANGLE:

This is an option for users to decide whether to set the same view angle for DAY and NIGHT mode or not. It is recommended to make proper adjustment based upon the actual lighting environment and the monitoring targets.

PRESET	PRESET
VIEW ANGLE D/N SAME VIEW	VIEW ANGLE D/N NOT SAME VIEW
PRESET DAY4	PRESET NIGHT4
Return4	RETURN4
CURRENT PRESET :	CURRENT PRESET :
PRESET FOCUS AT DAYTIME ON "DAY"	PRESET FOCUS AT DAYTIME ON "DAY"
MODE, PRESET FOCUS AT NIGHTTIME	MODE, PRESET FOCUS AT NIGHTTIME
ON "NIGHT" MODE, DAY OR NIGHT	ON "NIGHT" MODE, DAY OR NIGHT
FOCUS POINT MUST BE PRESET	FOCUS POINT MUST BE PRESET
SEPARATELY.	SEPARATELY.
D/N SAME VIEW	D/N NOT SAME VIEW

PRESET:

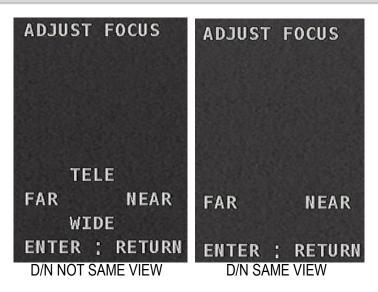
Please must enter DAY and NIGHT modes to set focus points separately. Important notes also shown below the display for reference.

DAY FOCUS PRESET(DFP)	NIGHT FOCUS PRESET(NFP)
CALL DFP بأ	CALL NFP &
ADJUST FOCUS بأ	ADJUST FOCUS &
SAVE DFP YES	SAVE NFP YES&
RETURN	RETURN&
CURRENT PRESET : D/N SAME POINT	CURRENT PRESET : D/N SAME POINT
ENTER FOCUS ADJUSTMENT AT	ENTER FOCUS ADJUSTMENT AT
DAYTIME, ACCURATE FOCUSING	NIGHTTIME, ACCURATE FOCUSING
AND ENTER SAVE DFP. SELECT"YES↓"	AND ENTER SAVE NFP. SELECT"YES↓"
TO SAVE THE POINT.	TO SAVE THE POINT.
DAY FOCUS PRESET	NIGHT FOCUS PRESET

ADJUST FOCUS:

Please must enter DAY and NIGHT modes to set focus points separately. Important notes also shown below the display for reference. See below to adjust accordingly by using the direction keys (UP/DOWN/RIGHT/LEFT). Please note TELE and WIDE will not be adjustable when VIEW ANGLE of D/N is the SAME. Also, be sure to save DFP/NFP by selecting YES after adjustment each time.

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CALL DFP/NFP:

Entering CALL DFP/NFP will activate each focus point and CURRENT PRESET will show the setup accordingly. See the change from NIGHT to DAY after calling below.

DAY FOCUS PRESET(DFP)	DAY FOCUS PRESET(DFP)
CALL DFP با	CALL DFP 4
ADJUST FOCUS با	ADJUST FOCUS 4
SAVE DFP NO	SAVE DFP YES4
RETURN با	RETURN4
CURRENT PRESET : NIGHT	CURRENT PRESET : DAY
ENTER FOCUS ADJUSTMENT AT	ENTER FOCUS ADJUSTMENT AT
DAYTIME, ACCURATE FOCUSING	DAYTIME, ACCURATE FOCUSING
AND ENTER SAVE DFP. SELECT"YES&"	AND ENTER SAVE DFP. SELECT"YES↓"
TO SAVE THE POINT.	TO SAVE THE POINT.
CURRENT PRESET before CALLING	CURRENT PRESET after CALLING

RETURN:

2.2 Exposure

In the "**EXPOSURE**" of camera OSD, there are some items can be selected to modify the settings. The main function of this page is about the optical settings.



MODE:

INDOOR is recommended for BOX type models. **OUTDOOR** is recommended for other models with either AUTO IRIS or AUTO IRIS plus IR function.

BRIGHTNESS:

To modify the value of brightness.

FLICKER:

To enable or disable FLICKER function. The default is OFF.

SHUTTER: (AUTO IRIS LENS)

AUTO, MANUAL, 2 options available. The value of **SHUTTER MIN/MAX** speed for **AUTO and MANUAL** modes can be further adjusted as shown in the screenshots below. The defaults of SHTTER MIN/MAX are 1/30 and 1/120 (subject to change by models) under INDOOR mode; while they are 1/30 and 1/2000 (subject to change by models) under OUTDOOR mode. There is no default SPEED difference between the two modes if MANUAL SHUTTER is chosen. Please refer to the screenshots below.

AUTO SHUTTER	AUTO SHUTTER	
SHUTTER MIN1/30SHUTTER MAX1/120RETURN₄i	SHUTTER MIN 1/30 Shutter Max 1/2000 Return↓	
AUTO SHUTTER (INDOOR)	AUTO SHUTTER (OUTDOOR)	
SHUTTER		



MANUAL SHUTTER

SHUTTER: (MANUAL LENS)

AUTO, MANUAL, 2 options available. The value of **SHUTTER MIN/MAX** speed for **AUTO and MANUAL** modes can be further adjusted as shown in the screenshots below. The defaults of SHTTER MIN/MAX are **1/30 and 1/30000 (subject to change by models)** for AUTO SHUTTER; while the default MANUAL SHUTTER SPEED has no change (1/30). Please refer to the screenshots below.

AUTO SHUTTER	
SHUTTER MIN 1/30	SHUTTER
SHUTTER MAX 1/30000 Return4	SPEED 1/30 RETURN¢i
AUTO SHUTTER	MANUAL SHUTTER

SENSE-UP:

To modify the "sense up" speed setting from 2 to 32x.

AGC:

To modify the value of AGC (Automatic Gain Control). The bigger the number, the brighter the screen can be. Note that the noise will increase as well.

RETURN:

2.3 HDR/BLC

In the "HDR/BLC" of camera OSD, total 5 options are available and 4 of which have advanced settings menu for adjustment. Please see details below.

D–WDR	HDR
LEVEL RETURN₄i	WEIGHT MIDDLE RETURNA
D-WDR: LEVEL can be adjusted, but it's disabled	under Factory Default (Restore setting).
■ HDR: To modify the WEIGHT value among LOV	V/MIDDLE/HIGH. Default setting is MIDDLE.
HLC	
LEVEL Innum Mode All Day Returna	
LEVEL International MODE ALL DAY	Default is 10.

BLC				
	H-POS	5		
ſ	V-POS	5		
	H-SIZE	8		
	V-SIZE	8		
	RETURN↓			



To adjust the Horizontal/Vertical value for BLC (inner frame in the screenshot) position and size separately.

OFF:

To disable HDR/BLC function.

RETURN:

2.4 WHITE BAL

In the "WHITE BAL" of camera OSD, total 4 options are available and 2 of which have advanced settings menu for adjustment. Please see details below.

M.	ANUAL
KELVIN	MIDDLE
R-GAIN	
B-GAIN	
RETURN	

MANUAL:

KELVIN: To adjust the KELVIN (Color temperature) value among LOW/MIDDLE/HIGH. R-GAIN: To adjust the R-GAIN (RED GAIN) value from 0 to 20. B-GAIN: To adjust the B-GAIN (BLUE GAIN) value from 0 to 20

	PROCESSING
¥	

PUSH LOCK:

Press ENTER to lock white balance according to the current display (e.g. point the camera towards a sheet of white paper). The camera will start processing as shown in the screenshot above.



Auto White Balance.



Auto Tracking White balance.

RETURN:

2.5 DNR

In the "**DNR**" of camera OSD, there are some items can be selected to modify the settings. The main function of this page is to adjust the digital noise reduction.



SMART DNR:

To enable or disable SMART DNR mode. Default setting is OFF as of recommended use.

2DNR:

To modify the value among OFF/LOW/MIDDLE/HIGH. Default setting is LOW.

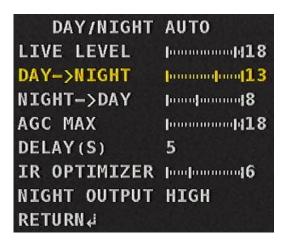
3DNR:

To modify the value among OFF/LOW/MIDDLE/HIGH. Default setting is OFF.

RETURN:

2.6 DAY/NIGHT

In the "DAY/NIGHT" of camera OSD, AUTO, IR SYNC or EXTERNAL, B/W, can be selected to modify the settings. Selecting COLOR will keep the camera in color display and B/W is on the contrary. IR SYNC or EXTERNAL makes the camera view synchronize with IR LED to switch COLOR or B/W based on the brightness of the environment.



LIVE LEVEL:

The camera will automatically detect the lighting condition of the current environment and show the number. Bigger number means brighter environment.

DAY->NIGHT:

In collaboration with LIVE LEVEL function, set the value for the camera to switch from DAY to NIGHT display.

NIGHT->DAY:

In collaboration with LIVE LEVEL function, set the value for the camera to switch from NIGHT to DAY display.

AGC MAX:

To modify the value of AGC (Automatic Gain Control). The bigger the number, the brighter the screen can be. Note that the noise will increase as well.

DELAY (S):

To modify the delay time value from 0-255 seconds.

IR OPTIMIZER:

To adjust the IR Optimizer value to improve the image exposure issue when IR is turned on. The dark side of the image will also be optimized in terms of even brightness to enhance the effect as a whole.

NIGHT OUTPUT:

To adjust the setting value between HIGH and LOW under NIGHT OUTPUT. This option will not be shown for models with FIXED IRIS plus IR or AUTO IRIS plus IR to avoid IR switching errors.

EXTERNAL

IR OPTIMIZER Innohumented NIGHT INPUT LOW DELAY 0 RETURN4

IR OPTIMIZER:

To adjust the IR Optimizer value to improve the image exposure issue when IR is turned on. The dark side of the image will also be optimized in terms of even brightness to enhance the effect as a whole.

NIGHT INPUT:

To adjust the setting value between HIGH and LOW under NIGHT INPUT. Camera display in COLOR or B/W depends on the HIGH/LOW input on the DNI port of the rear panel. This function works only for box models when syncing with IR illuminators. No adjustment is needed for DOME and BULLET models.

DELAY:

To modify the delay time value from 0-255 seconds.



IR OPTIMIZER:

To adjust the IR Optimizer value to improve the image exposure issue when IR is turned on. The dark side of the image will also be optimized in terms of even brightness to enhance the effect as a whole.

RETURN:

2.7 Image

In the "**IMAGE**" of camera OSD, there are some items can be selected to modify the settings. The main function of this page is about the image settings.

🖼 IMA	GE
SHARPNESS	խովոտուս[3
LOW LUX SHAR	Photomore 12
SATURATION	1
GAMMA	0,55
MIRROR	OFF
FLIP	OFF
BLACK LEVEL	h
RETURN↓	

SHARPNESS:

To modify the value of sharpness.

LOW LUX SHARP:

To modify the value of sharpness under low light source or dark environment.

SATURATION:

To modify the value of saturation.

GAMMA:

To modify the value of gamma.

MIRROR:

To enable or disable the mode of image mirror.

FLIP:

To enable or disable the mode of image flip.

BLACK LEVEL:

To adjust the value of black level. Default is 10.

RETURN:

2.8 Effect

In the "**EFFECT**" of camera OSD, there are some items can be selected to modify the settings. The main function of this page is about the camera effects.

EFF	ЕСТ
SMART ZOOM	OFF
MOTION	OFF
PRIVACY	OFF
DEFOG	OFF
RETURN↓	

SMART ZOOM:

To enable or disable the "smart zoom" function. Please must enable and set the DET DISP function below as well to achieve the best effect. Check the details in next section. **Note: If SMART ZOOM is ON, MOTION will automatically be disabled**.

MOTION:

To enable the "motion" effect or not. Enable this will go its sub-menu for motion setting. Please check the details in its section.

Note: If MOTION is ON, SMART ZOOM will automatically be disabled.

PRIVACY:

To enable the "privacy" effect or not. Enable this will go its sub-menu for privacy setting. Please check the details in its section.

DEFOG:

To enable the "defog" effect or not. Enable this will go its sub-menu for defog setting. Please check the details in its section.

RETURN:

2.9 SMART ZOOM

After enabling "SMART ZOOM" of camera OSD, there are some items can be selected to modify the settings as shown in the screenshot below. Please note that enabling SMART ZOOM will automatically disable MOTION.

SMART Z	DOM
SMART AREA	4
DET DISP	OFF
MOVING DISP	OFF
SENSITIVITY	h
STAY MODE	CONTINUE
STAY TIME(S)	m mmmm 5
INTERVAL(S)	3
RETURN↓	

SMART ZOOM ON

SMART AREA:

To enable or disable the smart zoom function. Please must enable and set the DET DISP function below as well to achieve the best effect.

SMART AREA
SMART AREA 3
FOCUS POINT START (DAY)
RETURN¢
STEP 1:SELECT SMART AREA
WHEN VIDEO MOTION WAS DETECTED
IN SMART AREA, VIDEO WILL BE
SMART ZOOMED INTO FULL SCREEN.
STEP 2:
PRESS START I TO SET SMART AREA
FOCUS POINT
SMART AREA SETTINGS

SMART AREA:

To adjust the frame size of the detection display area from 1 (the smallest) to 5 (the biggest).

FOCUS POINT:

Please follow the 2 steps on the screen to set up the focus point for DAY and NIGHT separately to ensure the best zoom effect.

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DET DISP:

To enable or disable the detection display function. Please see below for advanced settings.

MOVING DISP:

To enable or disable showing texts "MOVING..." on the screen to work with the related functions shown above.

SENSITIVITY:

To adjust the sensitivity for detection area level from 0 to 20. The bigger the number is set, the more sensitive the camera will be.

STAY MODE:

CONTINUE: When SMART ZOOM is triggered, CONTINUE mode keeps the camera staying focus on the area persistently.

SINGLE: When SMART ZOOM is triggered, SINGLE mode, in contrast to CONTINUE mode, namely will only operate zooming once in a default time frame.



STAY TIME:

To adjust the time value for STAY MODE (focus keep) above from 0 to 20 seconds.

INTERVAL:

To adjust the detection interval from 0 to 255 seconds to start next SMART ZOOM.

RETURN:

2.10 Motion

In the "**MOTION**" of camera OSD, there are some items can be selected to modify the settings. The main function of this page is about the motion detection. **Please note that enabling MOTION will automatically disable SMART ZOOM.**



MOTION ON

DET DISP:

To enable or disable the detection display function. Please see below for advanced settings.

	SMART	AREA	
	AREA SEL	1	
	AREA DISP	ON	
	AREA COLOR	2	
	DET H-POS	4	
	DET_V-POS	3	
k	DET H-SIZE	25	
	DET V-SIZE	14	
	RETURN↓		
			DET DISP ON

AREA SEL:

4 areas are available as shown in the screenshot above. 1 refers to the upper left one, 2 is the upper right, 3 is the lower left and 4 is the lower right.

AREA DISP:

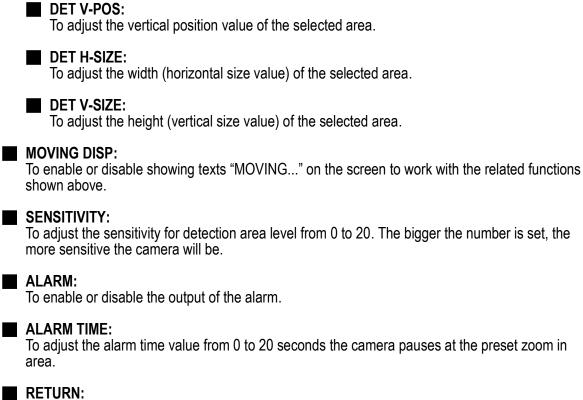
To enable or disable the area display.

AREA COLOR:

To select the area color from 0 to 6.

DET H-POS:

To adjust the horizontal position value of the selected area.



2.11 Privacy

In the "**PRIVACY**" of camera OSD, please enable this function to enter and modify the settings. The main function of this page is about the privacy mask size and position.

	PRIVACY		
	ZONE NUM	1	
	ZONE DISP	ON	
	H– <mark>POS</mark>	9 4	
	V-POS		
	H-SIZE	5	
	V-SIZE Y LEVEL	5	
	CR LEVEL	լախաստավ4 խոսիստուվ7	
S	CB_LEVEL	[
16	RETURN		
	ZONE NUM: To select number of zone	for privacy mask from 1 to 16.	
	ZONE DISP: To enable or disable the z	zone display.	
	H-POS: To adjust the horizontal p	osition value for privacy mask from 0 to 60.	
	V-POS: To adjust the vertical posi	tion value for privacy mask from 0 to 40.	
	H-SIZE: To adjust the horizontal si	ize value for privacy mask from 0 to 40.	
	V-SIZE: To adjust the vertical size value for privacy mask from 0 to 40.		
	Y-LEVEL: To adjust the luminance level for privacy mask from 0 to 20.		
	CR LEVEL: To adjust the color red lev	vel for privacy mask from 0 to 20.	
	CB LEVEL: To adjust the color blue le	evel for privacy mask from 0 to 20.	
	RETURN: Return to upper level of OSD menu.		

2.12 Defog

In the "**DEFOG**" of camera OSD, please enable this function to enter and modify the settings. The main function of this page is about the fog reduction effects.



MODE:

To select the mode of fog reduction: AUTO / MANUAL.

LEVEL:

To adjust the level of fog reduction: LOW / MIDDLE / HIGH.

■ RETURN:

2.13 System

In the "**SYSTEM**" of camera OSD, there are several sub-menus and items can be selected to modify the settings. The main function of this page is about the video format information and OSD firmware version.

* SYSTEM	
DIGITAL OUT	1080P
FRAME RATE	30 FPS
ANALOG OUT	NTSC
DVR	4
CABLE LENGTH	0-200M
COLORBAR	0FF
LANGUAGE	ENGLISH
FW 4.0 AHU4D	160901132NBXNC04
RESTORE	NO
RETURN↓	

DIGITAL OUT:

To select the digital output setting between 1080P and 720P.

FRAME RATE:

To select the frame rate setting between 30FPS and 25FPS.

ANALOG OUT:

To select the analog output setting between NTSC and PAL.

DVR	
DVR	1 I
BRIGHTNESS	խուփառուով7
SHARPNESS	խախատոսվ3
SATURATION	խուսփոստվ10
GAMMA	0,55
BLACK LEVEL	Jumm.jumm.j10
PROTOCOL	PELCO D-1(UTC)
COC	ON
RETURN	

DVR:

To select the DVR model by brands and adjust its corresponding image related settings.

PROTOCOL: PELCO D-1, PELCO D-2 and SH-C three protocols to cooperate with the selected DVR.

COC:

To enable or disable the function of Control over Coaxial cable.

CABLE LENGTH:

To select the Transmission Distance from 0-200M or over 200M supported by the camera with **Distance Compensation Setting**.

COLORBAR:

To enable or disable the mode of COLORBAR.

LANGUAGE:

To select the OSD language among ENGLISH, TRADITION CHINESE, SIMPILIFIED CHINESE, and JAPANESE.

FW 4.0 AHU4D:

The firmware version of this camera. (Version may vary depending on production)

RESTORE:

Select YES to restore all settings to the default value.

RETURN: