USER'S MANUAL

OSD (On Screen Display) Manual Operating Instructions



Thank you for choosing our high quality camera. Before attempting to connect or operate, please read and follow these instructions.

About this Instructions

Before installing and using the Camera, please read this manual Carefully. Be sure to keep it handy for later reference.

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1. Function Features

Advanced DNR Function

3D Filtering of the Video Signal Optimizes the Signal to Noise ratio, giving vas improved low light visibility and powerful Sens-Up function (up to 258 times magnification)





3D-DNR OFF

3D-DNR ON

High Resolution 550TV Lines 550TV Lines horizontal resolution in color mode and 600TV Lines

horizontal resolution in BW mode



Standard Camera



550TV Lines Camera

WDR (Wide Dynamic Range)

Capturers cleaner and superior high resolution pictures even where images appear dark because there is a strong back light present.

HSBLC (Backlight Compensation)

High spotlight BLC is especially effective to read the number plate of the vehicles in the street or parking lot at night time. Especially users can adjust and select the special requirement area to observe the target object under the strong spots of light exist.



WDR OFF



WDR ON



BLC OFF



BLC ON

Illumination (0.00001 Lux)

With an incredibly minimum illumination of amazing 0.00001Lux can capture good images even in extremely low light conditions



Standard Image



Min. Illumination Image

2. Key Buttons

Pressing the "SETUP"	button prompts the main setup menu.
"PUSH" button	: To access the main setup menu
"U" button	: Manu item UP selection
"D" button	: Manu item DOWN selection
"L" button	: To change data to down
"R" button	: To change data to up

3. OSD SETUP Menu for Quick Reference

SETUP	Menu	Default Value	Description
1. LENS		DC : Brightness 50	Manual, DC : Brightness Range : 0~100
2. EXPOSURE			EXPOSURE Sub-Menu
SHUTTER		NTSC : 1/60 (PAL : 1/50)	1/60 (PAL : 1/50),FLK. 1/250,1/500,1/500,1/2000,1/5000 1/10000, 1/100000
BRIGHTNESS			No Operation
AGC		MIDDLE	Adjusts the Maximum Gain Mode OFF,LOW,MIDDLE,HIGH
SENSE-UP		AUTO(X32)	OFF,AUTO (Range : x2~x258)
BLC		OFF	OFF,BLC (BLC Sub-menu) HSBLC (HSBLC Sub-menu)
BLC	GAIN	LOW	LOW,MIDDLE,HIGH
	DEFAULT		Initializes the changed category in BLC menu
	LEFT/RIGHT	2	Range : 0~7
	WIDTH	4	Range : 0~8
	TOP/BOTTOM	3	Range : 0~7
	HEIGHT	3	Range : 0~8
	RETURN		Return to EXPOSURE Sub-menu
HSBLC	LEVEL	5	Range : 0~8
	DEFAULT		Initializes the changed category in HSBLC menu
	LEFT/RIGHT	2	Range : 0~7
	WIDTH	4	Range : 0~8
	TOP/BOTTOM	3	Range : 0~7
	HEIGHT	3	Range : 0~8
	RETURN		

SETUP	Menu	Default Value	Description
D-WDR		OFF	OFF : Disable the Wide Dynamic Range Function. Indoor ,Outdoor
RETURN			Return to SETUP menu
3. WHITE BAL		ATW	ATW : Auto Trace WB mode. AWB : Wide Range Trace Mode. AWC→ SETUP Manual (Blue Gain & Red Gain Range : 0~100)
4. DAY NIGHT		COLOR	COLOR/BW, AUTO : Delay (0~63) / S-LEVEL (0~100)/ E-LEVEL(0~100), RESET
5. 3DNR		ON : Level 50	OFF, ON (Level Range : 0~100)
6. SPECIAL			SPECIAL Sub-menu
	1) CAM TITLE	OFF	Title(Max.15 Character), This position is adjustable
	2) D-EFECT		D-EFFECT Sub – menu.
	FREEZE	OFF	OFF,ON
	MIRROR	OFF	OFF.MIRROR,V-FLIP,ROTATE
	D-ZOOM	OFF	D-ZOOM Range : x1.0~x32.0 PAN Range : -100 ~ 100 TILT Range : -100 ~ 100 RETURN : Return to E-EFFECT Sub-menu
	GAMMA	0.45	Range : 0.05 ~1.00
	NEG.IMAGE	OFF	OFF,ON
	RETURN		RETURN : Return to SPECIAL Sub-menu
	3) MOTION	OFF	Area Select : AREA1~AREA4 Area Display : OFF, ON LEFT/RIGHT Range : 0~100 WIDTH Range : 0~100 TOP/BOTTOM Range : 0~100 HIGH Range : 0~100 SENSITIVITY Range : 0~40 RETURN : Return to SPECIAL Sub-menu
	4) PRIVACY	OFF	Area Select : AREA1~AREA8 Area Display : OFF, ON LEFT/RIGHT Range : 0~100 WIDTH Range : 0~100 TOP/BOTTOM Range : 0~100 HIGH Range : 0~100 SENSITIVITY Range : 0~40 RETURN : Return to SPECIAL Sub-menu
	5) SYNC	INT	Initializes the changed category in SPECIAL menu
	6) RETURN		Return to SETUP menu

SETUP	Menu	Default Value	Description
7. ADJUST			ADJUST Sub-menu
	MOTION	OFF	Area Select : AREA1~AREA4 Area Display : OFF, ON LEFT/RIGHT Range : 0~100 WIDTH Range : 0~100 TOP/BOTTOM Range : 0~100 HIGH Range : 0~100 SENSITIVITY Range : 0~40 RETURN : Return to SPECIAL Sub-menu
	PRIVACY	OFF	Area Select : AREA1~AREA8 Area Display : OFF, ON LEFT/RIGHT Range : 0~100 WIDTH Range : 0~100 TOP/BOTTOM Range : 0~100 HIGH Range : 0~100 SENSITIVITY Range : 0~40 RETURN : Return to SPECIAL Sub-menu
	SYNC	INT	Initializes the changed category in SPECIAL menu
	RETURN		Return to SETUP menu
8. RESET			Initializes the changed category in SPECIAL menu
9.EXIT			Save the SETUP menu and exit

4. OSD Menu Flow Chart





5. Explanation of SETUP Menu

SETUP	
•LENS DC₊ •EXPOSURE ₊i	
•WHITE BAL AWB	
•DAY NIGHT COLOR	
•3DNR ON~	
•SPECIAL 4	
•ADJUST 4	
•RESET 4	
•EX11	

1. LENS

DC(Default) : DC sub-menu



(1)BRIGHTNESS

Changes brightness level (Range: 0~100) Darker (0) ~ Brighter (100)

(2)RETURN

Return to the Main Menu

*TIP

If set up Brightness with Manual lens, it operated by EXPOSURE sub-menu.

2. EXPOSURE EXPOSURE sub-menu

EXPOSURE		(1)SHUTTER Current shutter speed 1/60(Default) – NTSC 1/60 (Default)-PAL
	1/60	1/50(Default) FLK, 1/250, 1/500, 1/2000,1/5000 1/10000, 1/100000
AGC SENSE-UP	MIDDLE AUTO₊	(2)BRIGHTNESS No operation (When lens is manual mode, it is operates)
BLC D-WDR RETURN	OFF OFF [↓]	(3)AGC(Auto Gain Control) AGC Level OFF,LOW,MIDDLE(Default), HIGH
		(4)SENSE-UP OFF : Disable SENSE-UP mode

ode AUTO : AUTO sub-menu

SENSE-UP	• SENSE-UP Select sense-up level x2,x4,x8,x16,x32(Default), x64,x128,x256
SENSE-UP x32 RETURN स्र	RETURN Return to the EXPOSURE sub-menu

(5) BLC(Backlight Compensation)

Value of each BLC on mode

- OFF(Default) : Disable BLC mode
- BLC : Go to BLC mode

BLC	
GAIN	LOW
DEFAULT	ج ا
LEFT/RIGHT	2
WIDTH	4
TOP/BOTTOM	3
HEIGHT	3
RETURN	لم

GAIN

BLC Level : Low(Default), MIDDLE, HIGH

DEFAULT

Initializes the changed category in BLC menu

LEFT / RIGHT / TOP / BOTTOM / HIGHT Backlight Compensation weighting Zone

RETURN

Return to the EXPOSURE sub-menu

HSBLC : HSBLC mode

HSBLC	
LEVEL	5
DEFAULT	لي
LEFT/RIGHT	2
WIDTH	4
TOP/BOTTOM	3
HEIGHT	3
RETURN	لھ

LEVEL

BLC level (Range : 0~8 / Default : 5) Backlight Compensation Weighting value of each BLC mode

DEFAULT

Initializes the changed category in HSBLC menu

LEFT / RIGHT / TOP / BOTTOM / HIGHT

Backlight Compensation weighting Zone

RETURN

Return to the EXPOSURE sub menu

(6) D-WDR (Digital Wide Dynamic Range)

OFF (Default) : Disable D-WDR mode INDOOR : Indoor D-WDR mode OUTDOOR : Outdoor D-WDR mode

(7) RETURN

Return to the main menu

3. WHITE BALANCE

- ATW : Auto Trace White balance mode
- AWB (Default) : Wide Range auto white balance
- AWC \rightarrow SET
- Manual : Go to Manual Sub-menu
- Adjust R/B Gain Manually

WHITE BAL - MANUAL	BLUE Change BLUE Gain(Range : 0~100)
BLUE 40	RED Change RED Gain(Range : 0~100)
RED 21 RETURN ↓	RETURN Return to the main menu

4. DAY NIGHT

- COLOR(Default) : Day fix mode
- B/W : Night fix mode
- AUTO : Automatically COLOR / BW(Day & Night) According to Illumination change

DAY NIGHT	- AUTO
DELAY S-LEVEL E-LEVEL	3 76 51
RETURN	لھ

DELAY

Time to protect susceptible conversion of Color and BW Range : 0~63(Default : 3)

S-LEVEL

Starting Level-Adjust start level to set Color and BW

E-LEVEL Ending Level-Adjust start level to set Color and BW

RETURN Return to the Main menu

5. 3DNR

- ON(Default) : Changes Level (Range : 0~100)
- OFF : Disable the DNR

3DNR		
LEVEL RETURN	50 ₊	

LEVEL DNR level(Default:50) : Range 0~100

RETURN Return to the Main menu

6. SPECIAL

SPECIAL

1. CAM TITLEOFF2. D-EFFECT↓3. MOTIONOFF4. PRIVACYOFF5. SYNCINT6. RETURN↓

CAM TIT	ïLE	
0123456789 ABCDEFGHIJK LMNOPQRSTUV WXYZ▷\$☆⇔⇔() □/=&:~,.		
⇔⇔	POS END	
)

D-EFFECT	
FREEZE MIRROR D-ZOOM GAMMA NEG. IMAGE RETURN	OFF OFF OFF 0.45 OFF

D-ZOOM	
D-ZOOM PAN TILT RETURN	x1.0 0 م

(1) CAM TITLE

OFF : Disable CAM TITLE ON : Refer to the CAM TITLE editing menu

- Select position of CAM TITLE menu
- When the cursor is blinking. You can select the character by PUSH button
 - < : Previous Character
 - ⇒ : Next Character
 - POS : Change the position of the CAM TITLE. After changing the position, you push the setup button one more time.
 - END : After set click this letter to end up.
- (2) D-EFFECT
 D-EFFECT sub menu
 FREEZE
 OFF(Default) : Real picture
 ON : Still picture

MIRROR

OFF: Normal picture MIRROR : Horizontal reverse picture ROTATE : Horizontal and vertical reverse picture

D-ZOOM (Digital ZOOM)

D-ZOOM -Digital ZOOM Range : x1.0~x32.0 PAN - Pan Range : -100~100 TILT – Tilt Range : -100~100 RETURN – Return to the previous menu

GAMMA

Default - 0.45(Range : 0.05~1.00)

NEG.IMAGE

OFF(Default) :Positive picture ON : Negative inverted picture

RETURN

Return to the previous menu

MOTION

AREA SELECT AREA1 AREA DISPLAY ON LEFT/RIGHT 8 WIDTH 32 TOP/BOTTOM 4 HEIGHT 24 SENSITIVITY 40 MOTION VIEW OFF RETURN 4

(3) MOTION

OFF : Disable CAM TITLE ON : Refer to the CAM TITLE editing menu

AREA SELECT

- Area 1~area4
- The zone of motion detection

AREA DISPLAY

- ON(Default) : Enable the motion detection
- OFF : Disable the motion detection

LEFT/RIGHT

 Horizontal starting point for motion detection zone (Range : 0~100)

WIDTH

• Horizontal terminating point for motion detection zone(Range : 0~100)

TOP/BOTTOM

 Vertical starting point for motion detection zone (Range : 0~100)

Height

 Vertical terminating point for motion detection zone (Range : 0~100)

SENSITIVITY

• Range : 0~40

MOTION VIEW

- OFF(Default)
- ON : Display motion block

RETURN

• Return to the previous menu

PRIVACY

AREA SELECTAREA1AREA DISPLAY ONLEFT/RIGHT8WIDTH16TOP/BOTTOM8HEIGHT16COLOR0RETURN

(4) PRIVACY

OFF : Disable privacy control ON : Refer to the privacy control menu

AREA SELECT

- Area 1~Area8
- Privacy mask zone number

AREA DISPLAY

- ON(Default) : Enable the privacy zone
- OFF : Disable the privacy zone

LEFT/RIGHT

 Horizontal starting point for privacy zone (Range : 0~100)

WIDTH

 Horizontal terminating point of privacy zone (Range : 0~100)

TOP/BOTTOM

 Vertical starting point of privacy zone (Range : 0~100)

Height

 Vertical terminating point of privacy zone (Range : 0~100)

COLOR

- Display Color(Range : 0~15)
 RETURN
- Return to the previous menu

7. ADJUST

Adjust sub menu

ADJUST	
SHARPNESS	20
BLUE	97
RED	92
RETURN	4

SHARPNESS

- Range : 0(blunt image)~31(sharp image) **BLUE**
- Range : 0~100
- Blue gain
- RED
- Range : 0~100
- Res gain
- RETURN
- Return to the previous menu

8. RESET

RESET sub-menu

RESET	
FACTORY	ہـRESET
RETURN	ب

9. EXIT

Save the SETUP menu and exit

FACTORY

Restore to factory default condition

RETURN

• Return to the main menu

MEMO

* Design and specifications are subject to change without notice.