

OSD Camera Manual

I. Function and specification

This is high-performance sensitivity surveillance cameras which built in SONY1/3" CCD and NextChip video processing CPU. On screen display (OSD) can be used in the different requirements of the closed-circuit security monitoring environment.

- SONY 1/3" Super HAD CCD(550TVL).
- Nextchip 2120 DSP.
- Horizontal Resolution 550TV lines.
- Auto exposure mode (Auto/IRIS/Shutter/Manual).
- Various languages: Chinese(simplified)/Chinese(traditional) / Japanese /Korean /English.
- Support various privacy shield , mobile detection function, D/N.
- Support DC / VIDEO Auto Iris interface.

Signal of system	NTSC	PAL
Picture Elements	768Hx494V	752Hx582V
Scanning system	525Lines,2:1Interlace	625Lines,2:1Interlace
Scanning rate	15.734KHz(H),59.94Hz	15.625KHz(H),50Hz
Shutter speed	1/60 to 1/100,000sec.	1/50 to 1/100,000sec.
Image sensor	1/3" SONY super HAD CCD	
Horizontal Resolution	550 TVL	
Synchro system	Internal	
S/N ratio	More than 50dB (AGC off)	
Auto gain	On (Max 4~30dB)	
Mini Illumination	0.05LUX(F1.2)	
Gamma value	$\gamma = 0.45$	
White balance	AWB (2,100°k ~ 9,100°k)	
Video output	CVBS, 1Vp-p, 75W	
Adapter	DC 12V±10%	
Power	100ma at DC12V When the infrared lamps is turned on, the Max electric current is 260mA	
Operation temperature	-10°C~+50°C 85% RH.	
Operation Humidity	90% RH max.	
Audio S/N ratio	More than 35dB (option)	

2.OSD Function and Operation

2.1.1. OSD Introduction

Function		OSD display	Illustrate
Main Menu	① Lens	Manual DC Video	Manual Iris lens DC drive iris lens Video drive aperture lens
	② Shutter	FLK FIXED Manual Auto	Anti-flicker Fixed Manual Auto (only support manual iris)
	③ Backing compensation	ON OFF	Backlight compensation ON Backlight compensation OFF
	④ Gain	ON OFF	Gain On Gain Off
	⑤ White balance	ATW AWB FIXED Manual	Auto tracking white balance Auto white balance Fixed Manual
	⑧ Exit	x125 ~ x10000 FL	Shutter speed Flicker corrective mode
⑥ Function		Return Camera ID Mirror Day Night Motion Privacy Gamma Language Reset	Return Camera ID Mirror Day Night Image detection Privacy Gamma language Reset
⑦ Adjust		Contrast Sharpness CB-GAIN CR-GAIN RETURN	Contrast Sharpness CB-GAIN CR-GAIN RETURN

2.1.2. Set suitable lens by OSD lens

- OSD will be back to the beginning in 3 seconds (auto Exit no action)
- Check the installation type of lens carefully.

➤ [enter] → [lens] → [Choose suitable lens]

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Lens          Manual
SHUTTER      Auto←
BLC          ON←
AGC          ON←
White BAL.   ATW
FUNCTION     ←
ADJUST      ←
EXIT
    
```

when using fixed Iris lens → Manual
When Using DC drive Iris lens → DC
When using Video lens iris lens → Video

0 to 255

■ DC drive Iris lens Setting

➤ [Enter] → [Lens] → [DC]

BRIGHTNESS 150

Adjust brightness settings of auto iris by moving around.: 0 to 255

←: RETURN

2.1.3. Setting shutter parameter by OSD

Setting shutter parameter.

> [enter] → [SHUTTER] → [choose suitable shutter parameters]

Lens	Manual
SHUTTER	Auto ←
BLC	ON ←
AGC	ON ←
White BAL.	ATW
FUNCTION	←
ADJUST	←
EXIT	

Including camera shutter setting:
FLK
FIXED
Manual
Auto (only support manual iris)

Fixed shutter setting.

> [enter] → [SHUTTER] → [FIXED]

SHUTTER: 1/50

Adjust brightness setting of auto iris by moving around : 1/50 to 1/10,000

←: RETURN

Manual shutter setting.

> [enter] → [SHUTTER] → [Manual]

SHUTTER : M 10

Adjust brightness setting of auto iris by moving around : 0 to 255

←: RETURN

Auto shutter setting (Manual iris lens function) .

> [enter] → [SHUTTER] → [Auto]

BRIGHTNESS 150

Adjust brightness setting of auto iris by moving around: 0 to 255

←: RETURN

2.1.4. Setting backlight compensation function by OSD

Backlight parameter setting.

> [enter] → [BLC] → [ON]

BLC AREA ←
BLC RATIO 25

Including camera BLC setting:
BLC region setting: enter to choose 64 region.
BLC bandwidth setting: 0 to 63

←: RETURN

2.1.5. Setting backlight compensation function by OSD

Setting camera AGC parameter .

> [enter] → [BLC] → [ON]

BLC AREA ←
BLC RATIO 25

Including camera BLC setting:
BLC region setting: enter to choose 64 region.
BLC bandwidth setting: 0 to 63

←: RETURN

2.1.6. Setting white balance by OSD

■ setting white balance parameter .

> [enter] → [White BAL.] → [choose white balance mode]

Lens	Manual	Including camera White Bal. setting:
SHUTTER	Auto←	ATW
BLC	ON←	AWB
AGC	ON←	Manual
White BAL.	ATW	FIXED
FUNCTION	←	
ADJUST	←	
EXIT	←	

■ Setting fixed white balance .

> [enter] → [WHITE BAL.] → [FIXED]

AWB FIXED :MODE 1
←:RETURN

Setting fixed white balance by moving around:
MODE 1 to MODE 4

■ Setting manual white balance.

> [enter] → [WHITE BAL.] → [Manual]

RED 113
BLUE 255
←:RETURN

setting white balance color mode by moving around:
red: 0 to 255
blue: 0 to 255

2.2.1. Setting special function

> [enter] → [Function] → [choose camera function]

Lens	Manual	Including camera function:
SHUTTER	Auto←	Camera ID
BLC	ON←	Mirror
AGC	ON←	Day Night
White BAL.	ATW	Motion
FUNCTION	←	Privacy
ADJUST	←	Gamma
EXIT	←	Language
		Reset

2.2.2. Function Menu introduce

■ camera function Menu introduce.

> [enter] → [Function] → [choose camera function]

Return		Including camera function:
Camera ID	OFF	Camera ID
Mirror	OFF	Mirror
Day Night	AUTO	Day Night
Motion	OFF	Motion
Privacy	OFF	Privacy
Gamma	0.45	Gamma
Language	English	Language
Reset	←	Reset

2.2.3. Camera ID display setting

> [enter] → [Function] → [Camera ID] → [ON]

Return
Camera ID ON
Mirror OFF
Day Night AUTO

Switching ON by moving around:
Show camera ID

> [enter] → [Function] → [Camera ID] → [ON] → [Camera ID]

Camera ID	
NEXTCHIP	← C
POSITION	←
RETURN	

Switching position by moving around:
Setting the length of a 15-character code
Choose different characters by moving
up and down:
Setting letter, number and symbols

> [enter] → [Function] → [Camera ID] → [ON] → [POSITION]



Show position by moving around ID:
Setting the length of a 15-character code

2.2.4. Setting camera image display

> [enter] → [Function] → [MIRROR] → [ON]

Camera ID	ON
Mirror	ON
Day Night	AUTO

Switch On by moving around:
Camera image around upside do
wn

2.2.5. Setting day night

> [enter] → [Function] → [Day Night] → [choose D/N mode]

Camera ID	ON
Mirror	OFF
Day Night	AUTO
Motion	OFF

Switch D/N mode by moving around:
Auto: auto day and night
Color: single color
B/W: black/white:

> [enter] → [Function] → [Day Night] → [AUTO]

DELAY	3
START LEVEL	88
END LEVEL	255
RETURN	

Adjust the number by moving around:
DELAY: setting delay for day and nig
ht
Start rating: 0 - 255
Ending rating: 0 - 255

> [enter] → [Function] → [Day Night] → [B/W]

BURST	ON
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Moving around:
ON/OFF

2.2.6. Moving detection setting

> [enter] → [Function] → [MOTION] → [choose open moving detection function or not]

Camera ID	ON
Mirror	OFF
Day Night	AUTO
Motion	ON ←

Switching on by moving around:
Open moving detection function

> [enter] → [Function] → [MOTION] → [ON]

AREA	←
MOTION TH.	37
MOTION TRACE	OFF
RETURN	

Moving around setting:
AREA: setting moving regional
MOTION TH.: setting up sensitive
0 - 255
MOTIONTRACE: moving track switch ON/OFF

2.2.7. Privacy region setting

► [Enter] → [Function] → [PRIVACY] → [choose open privacy region function or not]

Mirror	OFF
Day Night	AUTO
Motion	ON←
Privacy	OFF

Switching on by moving around:
Open privacy shield function

► [Enter] → [Function] → [PRIVACY] → [ON]

AREA	SEL	AREA 0
AREA	STATE	ON
		44
LEFT		
		78
RIGHT		
		255
TOP		
		54
BOTTOM		
		33
COLOR		
RETURN		

Setting up by moving around:

AREA SEL: Choose a privacy shield region
AREA 0 - AREA 4

AREA STATE: Choose if privacy region can work

ON: work/ OFF: off work (without shield)

LEFT: left region 0-255

RIGHT: right region 0-255

TOP: up region 0-255

BOTTOM :down region0-255

Color: region color 0-63

2.2.8. Gamma setting

► [Enter] → [Function] → [Gamma] → [choose Gamma]

Mirror	OFF
Day Night	AUTO
Motion	ON←
Privacy	OFF
Gamma	0.45
Language	English
Reset	←

Setting Gamma by moving around:
0.05 -1.00

2.2.9. Memu language setting

► [Enter] → [Function] → [Language] → [choose OSD language]

Privacy	OFF
Gamma	0.45
Language	English
Reset	←

setting OSD language by moving around:
apanese/Chinese(simplified)/Chinese(traditional)/Korean/English

2.2.10. Restore the initialization setting

► [Enter] → [Function] → [Reset] → [restore the initialization setting]

Privacy	OFF
Gamma	0.45
Language	English
Reset	←

Restore the initialization setting by Menu :

YES: restore
No: no restore

YES NO
