

SPECIFICATION

Signal Format	NTSC		PAL
Image Device	1/3" Sony Super HAD CCD II		
Total Pixels	811(H) x 508(V) approx. 410K pixels	795(H) x 596(V) approx. 470K pixels	
Effective Pixels	768(H) x 494(V) approx. 380K pixels	752(H) x 582(V) approx. 440K pixels	
Inter. H/V	15,734/59.94Hz		15,625/50Hz
H.Resolution	600TV Lines		
Minimum Illumination	0.00002 Lux / F1.2 (Sense- up)		
S/N Ratio	More than 50dB (AGC Off)		
Electronic Shutter	1/60 ~ 1/100,000 sec		1/50 ~ 1/100,000 sec
Manual Shutter	1/60(50), FLK, 1/250, 1/500, 1/2K, 1/5K, 1/10K, 1/100K X2, X4, X8, X16, X32, X64, X128, X256		
Sense-up	X2, X4, X8, X16, X32, X64, X128, X256 (8X Recommended)		
AGC	Off / Low / Middle / High		
White Balance	ATW / PUSH / PUSH-LOCK / MANUAL / INDOOR / OUTDOOR		
Sync System	Internal		
Privacy Zone	8 Zone		
Flickerless	OFF/ON		
Lens	varifocal (3.5 ~ 16.0mm)		
3DNR	Off / On (Plus Level setting)		
Motion Detection	4 Areas		
Language	English, French, Russian,German, Spanish, Dutch		
Additional DSP Functions	Mirror(H,V,H/V), Digital Zoom, Freeze,Negative Image, BLC, D-WDR		
Video Output	CVBS		
Input Power Source	DC12V ±10% Max 170mA AC24V ±10% Max 1.8W		

OSD MANUAL

3. DAY&NIGHT

: Switching the output image from COLOR when in a bright environment to B&W when dark.

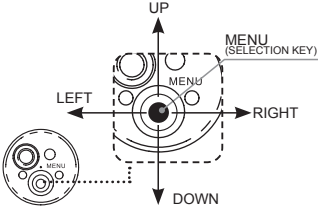
DAY & NIGHT AUTO	
DWELL TIME	10sec
D-N LEVEL	4
N-D LEVEL	6
RETURN	RET-↵

- AUTO : Color or B/W mode auto change.
- DETECT MODE
 - VIDEO : Select to detect mode as level of VIDEO.
- DWELL TIME :
 - Duration of continuous lighting condition (Bright or Dark) before switching mode.
 - (0~10 SEC).
- D>N LEVEL : The Level where the change occurs from COLOR(Day) to BW(Night).
- N>D LEVEL : The Level where the change occurs from BW(Night) to COLOR(Day).
- B/W : Image output is fixed at B&W.
- BURST ON/OFF : Select the burst signal ON/OFF when Night condition.
- COLOR : Enables user to fix the output image in COLOR at all light levels.

OSD MANUAL

GENERAL STRUCTURE

SETUP MENU	
EXPOSURE	•SHUTTER •BRIGHTNESS •AGC •SENSE-UP •BLC •D-WDR
WHITE BAL	•ATW •PUSH •PUSH-LOCK •MANUAL •INDOOR •OUTDOOR
DAY&NIGHT	•COLOR •B/W •AUTO
IMAGE	•FREEZE •MIRROR •D-ZOOM •SHARPNESS •COLOR GAIN •GAMMA •NEG.IMAGE
3DNR	•LEVEL •RETURN
SPECIAL	•CAM TITLE •LANGUAGE •MOTION •PRIVACY
RESET	•FACTORY RESET
EXIT	



Press in on joystick for enter/select

OSD MANUAL

4. IMAGE

: Configurations for the following settings: FREEZE, MIRROR, D-ZOOM, SHARPNESS, COLOR GAIN, GAMMA, NEGATIVE IMAGE.

IMAGE	
FREEZE	OFF
MIRROR	OFF
D-ZOOM	ON-↵
SHARPNESS	5
COLOR GAIN	0
GAMMA	0.45
NEG.IMAGE	OFF
RETURN	RET-↵

- FREEZE : Freezes the output image(use requires real time access to the camera controls).
- MIRROR
 - MIRROR : Output image is mirrored (Left to Right).
 - V-FLIP : Output image is flipped vertically (Up and Down).
 - ROTATION : Output image is rotated 180-degrees.
- D-ZOOM : Digitally Zooms in on a section of the screen.
- SHARPNESS : Sharpness of the output image can be adjusted.
- COLOR GAIN : RED GAIN or BLUE GAIN can be adjusted.
- GAMMA : Gamma vaule can be set.
- NEG.IMAGE : Output image is coverted to a negative image.

5. 3DNR

: Three-dimensional Noise Reduction.

- LEVEL : The degree of noise reduction can be set.

3DNR	50
LEVEL	RET-↵
RETURN	

OSD MANUAL

OSD FUNCTION DESCRIPTION

1. EXPOSURE

: Enables the user to configure the following functions: SHUTTER, AGC, SENSE-UP, BLC, D-WDR

EXPOSURE	
SHUTTER	AUTO
BRIGHTNESS	50
AGC	OFF
SENSE-UP	AUTO
BLC	BLC-↵
D-WDR	OFF
RETURN	RET-↵

- SHUTTER
 - AUTO : Exposure is controlled automatically.
 - FLK : Enable FLICKERLESS. (NTSC: 1/100, PAL: 1/120)
 - FIXED : Allow the shutter speed to be set manually. > 1/60(50), 1/250, 1/500, 1/2K, 1/5K, 1/10K, 1/100K () is for PAL TYPE
- BRIGHTNESS : AUTO Mode Only.
- AGC : Low, Middle, High.
 - *If AGC feature is turned off, 3D-DNR & SENSE-UP Features will not be available.
- SENSE-UP : Slow shutter speed control (max of 8~16 recommended).
- BLC : Back Light Compensation.
 - HSBLC : Highlight Suppression BLC will darken bright parts of the image.
- D-WDR : Allows accurate display of images during high contrast lighting conditions.

OSD MANUAL

6. SPECIAL

: Configurations for the following settings: CAM TITLE, LANGUAGE, MOTION, PRIVACY.

SPECIAL	
CAM TITLE	OFF
LANGUAGE	OFF
MOTION	ON-↵
PRIVACY	ON-↵
RETURN	RET-↵

- CAMERA TITLE : Displays the title editing menu.
- LANGUAGE : The Language to display the OSD in, (English, Russian, Spanish, German, French, Dutch).
- MOTION : The camera will monitor the output image for motion and display a OSD Icon upon detection.
- AREA SELECT : 4 areas can be selected for motion detection.
- AREA DISPLAY : Areas of motion detection can be toggled on and off
 - LEFT/RIGHT : Moves the detection area left and right.
 - WIDTH : The width of the detection area is set.
 - TOP/BOTTOM : Moves the detection area up and down.
 - HEIGHT : he height of the detection area is set.
- SENSITIVITY : Level of sensitivity for detecting motion is set.
- MOTION VIEW : Displays the areas of motion on the screen.

OSD MANUAL

2. WHITE BALANCE

: Enable the user to set the White Balance through controlling R,G,B Levels.

WHITE BAL MANUAL	
BLUE	24
RED	32
RETURN	RET-↵

- ATW : White Balance is traced automatically through a wide range of color temperatures. (2,500K ~ 9,500K)
- PUSH : White Balance is automatically adjusted for the current color temperature.
- P-LOCK : White Balance is Fixed to the current state. White Balance will be readjusted everytime this function is used.
- MANUAL : Enable the manual adjustment of RED GAIN and BLUE GAIN.
- INDOOR : White Blance is automatically adjusted at 3,200K base color temperature.
- OUTDOOR : White Blance is automatically adjusted at 5,400K base color temperature

OSD MANUAL

- PRIVACY : Up to 8 areas of the output image can be obscured.

- AREA SELECT : Select up to 8 areas.
- AREA DISPLAY : Displays the masked areas.
- LEFT/RIGHT : Moves the pricacy area right and left.
- WIDTH : The width of the privacy area is set.
- TOP/BOTTOM : Moves the pricacy area right and left up and down.
- HEIGHT : the height of the privacy area is set.
- COLOR : Color to use for the mask is set.

7. RESET

: Returns the camera to its factory default.

RESET	RESET-↵
FACTORY	
RETURN	RET-↵