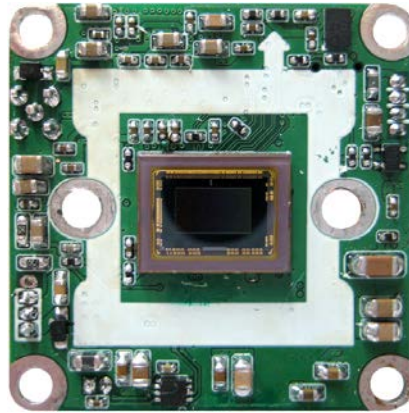


VIDEOLOGY

IMAGING SOLUTIONS INC.
Original Equipment Manufacturer

Instruction Manual 24RS2.0XW-EXSDI



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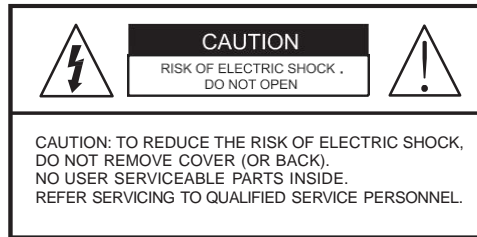
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Safety Precaution

- To prevent fire or shock hazard, do not expose the unit to rain or moisture.
- To prevent electric shocks and risk of fire hazards, do NOT use other than specific power source.



The symbol 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 symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the unit.

Warning: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC 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.

Caution: Any changes or modifications in construction of this device which are not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. Mains power quality should be that of a typical commercial environment. If the user of the model requires continued operation during power mains interruptions, it is recommended that the model be powered from an uninterruptible power supply (UPS) or a battery.

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1. Document History

Revision	Issue Date	Reason	CN#
Rev A	11-08-17	Initial release	17-0081
Rev B	04-11-19	Updated specs on cable 60C1026	19-0019

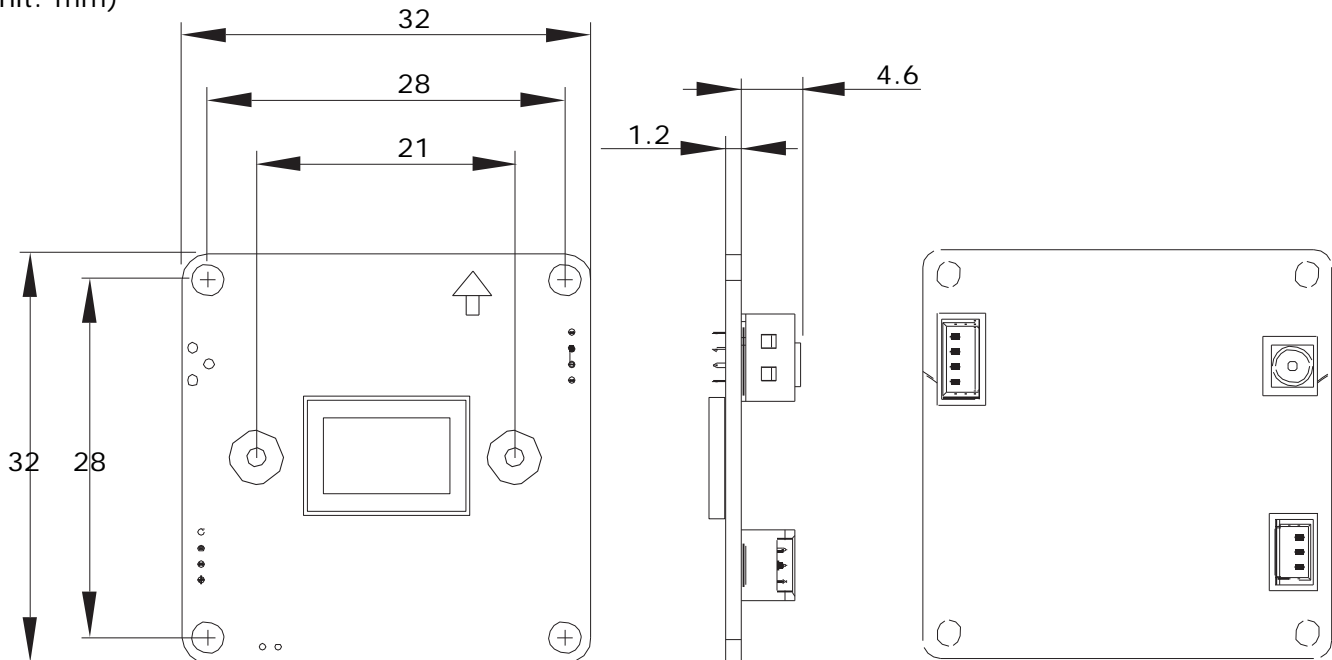
2. Heading

- Ultra low light performance with SONY's STARVIS sensor
- Color 0.005 LUX, B/W 0.0001 LUX
- Full HD 2MP HD-SDI/ EX-SDI camera
- 1920x1080 @ 30/25fps
- 1080p, 720p or CVBS selectable
- True WDR @ 30/25fps
- ROI (Region of Interest) WDR mode (adds additional scene quality optimization)
- NTSC/PAL** changeable via OSD
- Functions and OSD Control
 - Motion Detection, Privacy Mask, Defog, Sens-up (32x), ACE (D-WDR), Sharpness, Deblur, Mirror/Flip, BLC/HLC, Anti-saturation, Smart IR, Title Set
- Power 12VDC polarity protected

**specify N for NTSC preset, P for PAL preset within model number when ordering

3. Dimensions

(Unit: mm)



4. OSD Menu Table

Camera setup menu can be accessed and controlled by OSD controller.

- EXIT: You can exit the menu with saving changed commands or by cancelling the changed commands.
- RETURN: Returns to the previous menu.

MENU	SUB MENU	CONFIGURATION		
LENS	DC	MODE (INDOOR, OUTDOOR, DEBLUR)		
	MANUAL			
FOCUS Ast.	ON, OFF			
EXPOSURE	BRIGHTNESS	0~20		
	SHUTTER	AUTO		DEBLUR, NORMAL
		MANUAL (SPEED)	NTSC	1/30, 1/60, 1/200, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/15000, 1/30000
			PAL	1/25, 1/50, 1/100, 1/200, 1/400, 1/800, 1/1600, 1/3200, 1/6400, 1/12800, 1/25600
		FLICKERLESS		
	SENS-UP	OFF, x2, x4, x8, x16, x32		
AGC	0~10			
BACKLIGHT	OFF			
	HLC	LEVEL, COLOR		
	BLC	H/V-POS, H/V-SIZE		
	WDR	MODE	ROI	WINDOW ZONE/USE, H/V-POS, H/V-SIZE
		WEIGHT	NORMAL	
DAY & NIGHT	EXTERN	SMART IR, ANTI-SAT., D>N THRES, N>D THRES, DELAY		
	AUTO	SMART IR, ANTI-SAT., AGC THRES, AGC MARGIN, DELAY		
	COLOR			
	B&W	SMART IR, ANTI-SAT.		
COLOR	AWB	AUTO, AUTOext, PRESET, MANUAL (C-TEMP, R/B-GAIN)		
	COLOR GAIN	0~20		
3D-NR	OFF, LOW, MIDDLE, HIGH			
IMAGE	SHARPNESS	MAIN OUTPUT	ANALOG OUT0, ANALOG OUT1, SDI OUTPUT	
		ANALOG OUT0	CVBS	
		ANALOG OUT1	CVBS OFF, OFF	
		SDI OUTPUT	HD-SDI, EX-SDI 1.0, EX-SDI 2.0, OFF	
	GAMMA	0.45, 0.55, 0.65, 0.75		
	MIRROR	OFF, ON		
	FLIP	OFF, ON		
	ACE (D-WDR)	OFF, LOW, MIDDLE, HIGH		
	DEFOG	OFF, ON	MODE (AUTO, MANUAL)	LEVEL (LOW, MIDDLE, HIGH)
PRIVACY	OFF, ON	ZONE NUM, ZONE DISP, H/V-POS, H/V- SIZE, Y LEVEL, CB/CR LEVEL, TRANS		
MOTION	OFF, ON	DET WINDOW	WINDOW ZONE, WINDOW USE, DET H/V-POS, DET H/V-SIZE	
		DET TONE	0~4	
		MDRECT FILL	OFF, ON	
		SENSITIVITY	0~10	
		MOTION OSD	OFF, ON	
		TEXT ALARM	OFF, ON	
SYSTEM	OUTPUT	SDI OUTPUT	HD-SDI, EX-SDI 1.0, EX-SDI 2.0, OFF	
		ANALOG OUT0	CVBS	
	RESOLUTION	1080p 25/30, 720p 25/30, 720p 50/60(Cropped)		
	TV SYSTEM	US(NTSC), EU(PAL)		
	LANGUAGE	ENG, CHN(S), CHN, JPN, KOR, GER		
	CAM TITLE	OFF, RIGHT UP, LEFT DOWN		
RESET	In order to store the default settings you must click SAVE after reset is chosen			
EXIT	SAVE, CANCEL			

※ If CVBS video is enabled through ANALOG OUT0 or Sub-out port, WDR and 3D-NR functions are disabled in all video outputs.

5. OSD Menu

MENU V0. 13	
1. LENS	MANUAL
2. FOCUS Ast.	OFF
3. EXPOSURE	↓
4. BACKLIGHT	OFF
5. DAY&NIGHT	COLOR
6. COLOR	↓
7. 3D-NR	MIDDLE
8. IMAGE	↓
9. MOTION	OFF
A. SYSTEM	↓
B. EXIT	SAVE ↓

5.1. LENS (Default: MANUAL)

Choose either DC (auto iris) or MANUAL lens depending on which you intend to use with the camera.

5.1.1. DC (auto iris)

DC is for when DC Auto iris Vari-focal lens is installed

- INDOOR: Optimized for an indoor environment.
- OUTDOOR: Optimized for an outdoor environment.
- DEBLUR: The shutter is set to fixed values to remove any appearance of blur.

5.1.2. MANUAL



MANUAL yields the best image when a fixed lens is installed.

5.2. FOCUS Ast.

Focus Assist function is useful to set the focus on video.

There are three status bars for short range, middle range and long range. Shows exactly how focus is set. When green bar with yellow bar appears on columns, focus the lens NEAR or FAR. The maximum yellow bar indicates the best focusing position.

5.3. EXPOSURE

3. EXPOSURE	
BRIGHTNESS	9 
SHUTTER	AUTO
SENS-UP	X2
AGC	7 
RETURN	↓

5.3.1. BRIGHTNESS

Adjusts the brightness of video (0~20).

5.3.2. SHUTTER

Selects AUTO, Manual or Flickerless.

If SHUTTER is set to MANUAL, SENS-UP mode is inactivated.

5.3.2.1. AUTO

Optimizes the video level by controlling the iris and the shutter speed automatically.

- DEBLUR: The shutter is set to fixed values to remove any appearance of blur.
- NORMAL: The shutter is optimized for indoor and outdoor lighting conditions.

5.3.2.2. MANUAL:

Shutter will be set to a fixed value:

NTSC	1/30, 1/60, 1/200, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/15000, 1/30000
PAL	1/25, 1/50, 1/100, 1/200, 1/400, 1/800, 1/1600, 1/3200, 1/6400, 1/12800, 1/25600

5.3.2.3. FLICKERLESS

Flickerless means that a PAL camera can be used in a 60 Hz (or a NTSC camera in a 50 Hz) light environment without flickering. This mode can also be used to reduce side effects when the camera is used with fluorescent light environment. This Flickerless Mode may also help to minimize white balance drift when used in a fluorescent environment.

5.3.2.4. SENS-UP

Automatically detects the ambient level of darkness in a dark or low contrast scene to extend the accumulated time, keeping the image bright and sharp. It can be set to Off, x2, x4, x8, x16 or x32.

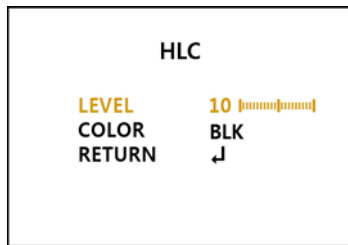
5.3.3. AGC

The AGC (Auto Gain Control) function is used to amplify the video signal when it falls below the set parameter. As the AGC level increases, the overall screen gets brighter but the level of noise will also increase at the same time. AGC levels are (0~10).

5.4. BACKLIGHT

When there is a strong backlight behind the object, clear images of the background as well as the object can still be obtained by using the BACKLIGHT function.

5.4.1. HLC (High Light Compensation)



HLC (High Light Compensation): This function is used to suppress or mask a strong light source (for example, headlights of cars during nighttime) so that other subjects can be seen in more detail.

5.4.1.1. LEVEL (0~20)

Sets the HLC level.

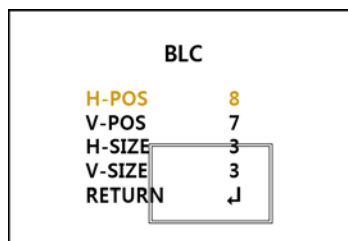
It sets the HLC level to determine when the HLC mask will be implemented. The HLC area is masked with the selected color.

5.4.1.2. COLOR

Select mask color from 9 colors.

Black, White, Yellow, Cyan, Green, Magenta, Red, Blue and Customize.

5.4.2. BLC (Backlight Compensation)



This function is used to brighten an image in the foreground with a highly light area behind it such as sunlight, limiting the effect of silhouette.

BLC has a target window for compensation and its size and position can be set by H-POS, V-POS, H-SIZE and V-SIZE.

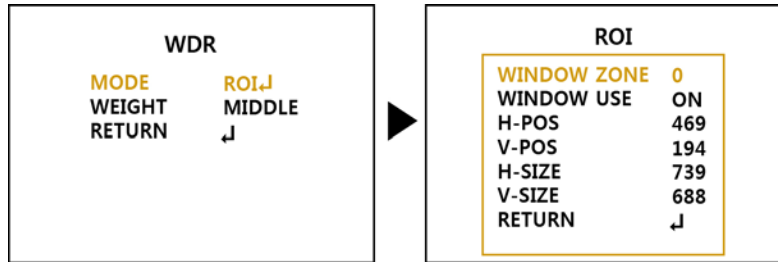
5.4.2.1. H-POS, V-POS

Sets the position of BLC area to move vertically and horizontally.

5.4.2.2. H-SIZE, V-SIZE

Sets the size of BLC area to move vertically and horizontally.

5.4.3. WDR (Wide Dynamic Range)



The WDR function works to correct excessive light within the frame to produce a usable image.

When the image has simultaneous bright and dark areas, it makes both areas distinct. Video outputs image processed from two images by dual shutter (long and short shutter) in a field to provide the best dynamic range. Bright area is compensated by the short shutter and dark area is compensated by the long shutter.

5.4.3.1. MODE

Selects WDR mode normal or ROI setting.

- NORMAL
WDR function applies full screen.
- ROI (Region of Interest)
Window Zone: Four zones possible.
Window Use: On/OFF
H/V Positions: Sets the position of ROI area to move vertically and horizontally.
H/V Size: Sets the size of ROI area to move vertically and horizontally.

5.4.3.2. WEIGHT

LOW, MIDDLE, HIGH
Select the WDR level of the camera.

※ If CVBS video is enabled through ANALOG OUT0 or Sub-out port, WDR and 3D-NR functions are disabled in all video outputs.

5.5. DAY & NIGHT

MENU V0. XX	
1. LENS	MANUAL
2. FOCUS ASt.	OFF
3. EXPOSURE	↓
4. BACKLIGHT	OFF
5. DAY&NIGHT	COLOR
6. COLOR	↓
7. 3D-NR	MIDDLE
8. IMAGE	↓
9. MOTION	OFF
A. SYSTEM	↓
B. EXIT	SAVE

DAY/NIGHT is used to control the setting during day-time and night-time operation. Select the mode according to the light condition.

5.5.1. EXTERN (Not supported)

DAY or NIGHT is determined by the built-in light photo sensor.

5.5.2. AUTO

Used when DAY or NIGHT is determined by light level through the lens and DAY from/to NIGHT is switched automatically by the scene brightness. It is controlled by the AGC threshold level, AGC margin and delay time.

5.5.2.1. SMART IR (Available only with the built-in LED model)

SMART IR can be set to reduce the saturation of strong IR illumination in the night in any menu of EXT, AUTO and B/W (NIGHT). Set to ON, SMART IR is enabled and ANTI-SAT. level is controlled.

5.5.2.2. ANTI-SAT. (Available only with the SMART IR is ON)

Sets the anti-saturation level 0~20. Setting high level avoids the saturation but the corners of the image will be darker accordingly.

5.5.2.3. AGC THRES

AGC (Auto Gain Control) is a threshold level which determines when to switch DAY from/to NIGHT in AUTO mode. Higher value makes the camera switch DAY from/to NIGHT at brighter illumination.

5.5.2.4. AGC MARGIN

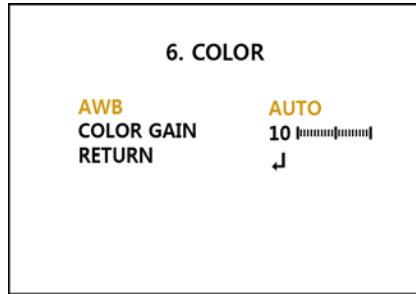
Sets the gap level switching from/to DAY (color) or NIGHT (B/W).

5.5.2.5. DELAY

D→N DELAY is timed in seconds while camera maintains its status before Day to Night switches.

DELAY Used to avoid the unwanted/frivolous switching by a short term lights such as light from the passing car. Sets delay term low, middle or high.

5.5.3. COLOR (Default: COLOR)



The camera is always in COLOR mode. DAY/NIGHT is disabled and outputs color video.

5.5.4. B/W

The camera is always in B/W mode.

5.5.4.1. SMART IR

OFF (Available only with a built-in LED model)

5.5.4.2. ANTI-SAT.

NOT USED (Available only if the SMART IR is ON in LED models)

5.6. COLOR

5.6.1. AWB (Auto White Balance)

Automatically tracks the changes of color temperature and continuously adjusts the white balance. AUTO, AUTOext, PRESET and MANUAL modes are available.

5.6.1.1. AUTO

Optimized for Indoor installation and more easily compensates AWB for low color temperature such as incandescent lights.

5.6.1.2. AUTOext

Optimized for outdoor sunlight applications and more easily compensates AWB for high color temperature such as sunlight.

5.6.1.3. PRESET

AWB is performed only whenever OSD button is pressed.

5.6.1.4. MANUAL

White balance is fixed to the settings by Color-Temperature Red-GAIN and Blue-GAIN. It can be used only when the color temperature does not vary.

5.6.2. COLOR GAIN

Sets the color gain control level 0~20.

5.7. 3D-NR (Digital Noise Reduction)

MENU V0. XX	
1. LENS	MANUAL
2. FOCUS Ast.	OFF
3. EXPOSURE	↓
4. BACKLIGHT	OFF
5. DAY&NIGHT	COLOR
6. COLOR	↓
7. 3D-NR	MIDDLE
8. IMAGE	↓
9. MOTION	OFF
A. SYSTEM	↓
B. EXIT	SAVE ↓

DNR function improves picture quality by filtering out signal noise which is generated under the low light conditions. Settings are: off, low, middle or high level.

3DNR (3-dimensional noise reduction) which reduces noise. It is effective at low light. High level setting has the greatest noise reduction but loss of sharpness may occur.

※ If CVBS video is enabled through ANALOG OUT0 or Sub-out port, WDR and 3D-NR functions are disabled in all video outputs.

5.8. IMAGE

8. IMAGE		SHARPNESS	
SHARPNESS	↓	MAIN OUTPUT	SDI OUTPUT
GAMMA	0.55	SDI OUTPUT	HD-SDI
MIRROR	OFF	SDI&CVBS	5 ■■■■■■■■
FLIP	OFF	HD-C-MODE	5 ■■■■■■■■
ACE	OFF	HD-T-MODE	6 ■■■■■■■■
DEFOG	OFF	HD-A-MODE	7 ■■■■■■■■
PRIVACY	OFF	RETURN	↓
RETURN	↓		

5.8.1. SHARPNESS

Sets the Sharpness level 0~10. Increases or decreases the sharpness of the picture. Too much sharpness can make image harsh and show more noise as well as line flicker at the edge of object in the picture.

5.8.2. GAMMA

Adjust gamma level of video.

5.8.3. MIRROR

The Video is horizontally flipped.

5.8.4. FLIP

The Video is vertically flipped.

5.8.5. ACE (D-WDR, Works in both CVBS and HD-SDI)

This function illuminates darker areas of an image while retaining the same light level for brighter areas to even out the overall brightness of images with high contrast between bright and dark areas.

Select the D-WDR level of the camera low, middle or high level.

5.8.6. DEFOG

Images in extreme environments such as fog, rain or with a very strong luminous intensity have DR (Dynamic Range), lower than normal images. Defog enhances the DR. Settings are: AUTO or MANUAL mode.

5.8.6.1. MODE

- AUTO: Enhance the video automatically according to status of scene.
- MANUAL: Enhance the video manually regardless of status of scene.

5.8.6.2. LEVEL

Set the level of enhancement at low, mid or high.

5.8.7. PRIVACY

Sets ON/OFF for enabling/disabling PRIVACY mask. 16 privacy areas are available and each area is programmable in size, color, position and transparency.

5.8.7.1. ZONE NUM




Selects mask zone number from 0 to 15 to be adjusted.

5.8.7.2. ZONE DISP

Displays OFF/ON for the mask area of the selected zone.

5.8.7.3. H-POS, V-POS

Adjusts the mask area H, V position of the selected zone.

PRIVACY	
ZONE NUM	0
ZONE DISP	ON
H-POS	12
V-POS	2
H-SIZE	3
V-SIZE	3
Y-LEVEL	10 
CB LEVEL	10 
CR LEVEL	10 
TRANS	0
RETURN	↓

5.8.7.4. H-SIZE, V-SIZE

Adjusts the mask size using H, V direction of the selected zone.

5.8.7.5. Y LEVEL

Adjusts the mask color by Y LEVEL. (0: black ~ 20: white)

5.8.7.6. CB LEVEL

Adjusts the mask color by CB LEVEL. (0: yellow ~20: blue)

5.8.7.7. CR LEVEL

Adjusts the mask color by CR LEVEL. (0: Green ~20: magenta)

5.8.7.8. TRANS.

Selects transparency rate for the mask area from 0 to 3

- 0: Privacy mask is not transparent.
- 1: Privacy mask is 25% transparent.
- 2: Privacy mask is 50% transparent.
- 3: Privacy mask is 100% transparent.

5.9. MOTION

4 motion detection areas are available and each area is programmable in size and location. When motion is detected the results are displayed in blocks and/or a text message.

5.9.1. DET WINDOW

Sets the MOTION DETECTION areas on screen.

5.9.1.1. WINDOW ZONE

Set the detection zone number from 0 to 3.

5.9.1.2. WINDOW USE

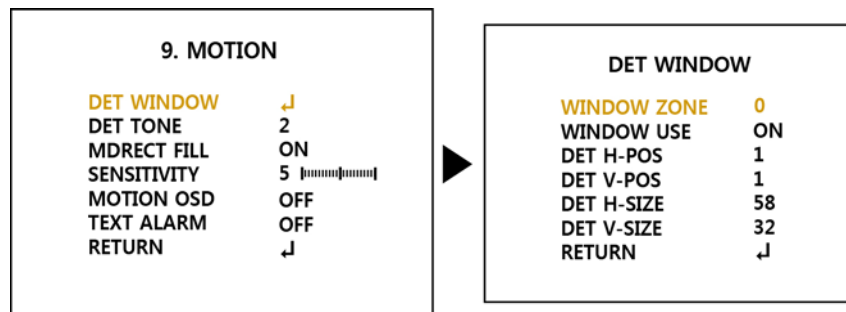
Sets ON/OFF motion detection area of the selected zone.
If set to ON, the horizontal/vertical position and size can be adjusted.

5.9.1.3. DET H-POS, V-POS

Adjusts the detection area H, V position of the selected zone.

5.9.1.4. DET H-SIZE, V-SIZE

Adjusts the area size using H, V direction of the selected zone.



5.9.2. DET TONE

Sets the detection zone 0 to 4.

- 0: Set the 100% opacity level of video background except detection window zone.
- 1: Set the 50% opacity level of video background except detection window zone.
- 2: Set the 25% opacity level of video background except detection window zone.
- 3: Video background image is same as detection window zone.
- 4: Detection window zone is displayed with box line

5.9.3. MDRECT FILL

Sets the motion display on when motion is detected on video. Setting ON is displayed red solid box type. Setting OFF is displayed red outline box type.

5.9.4. SENSITIVITY

Sets the detection sensitivity for motion (0~10). High value increases the sensitivity to detect small motion easily.

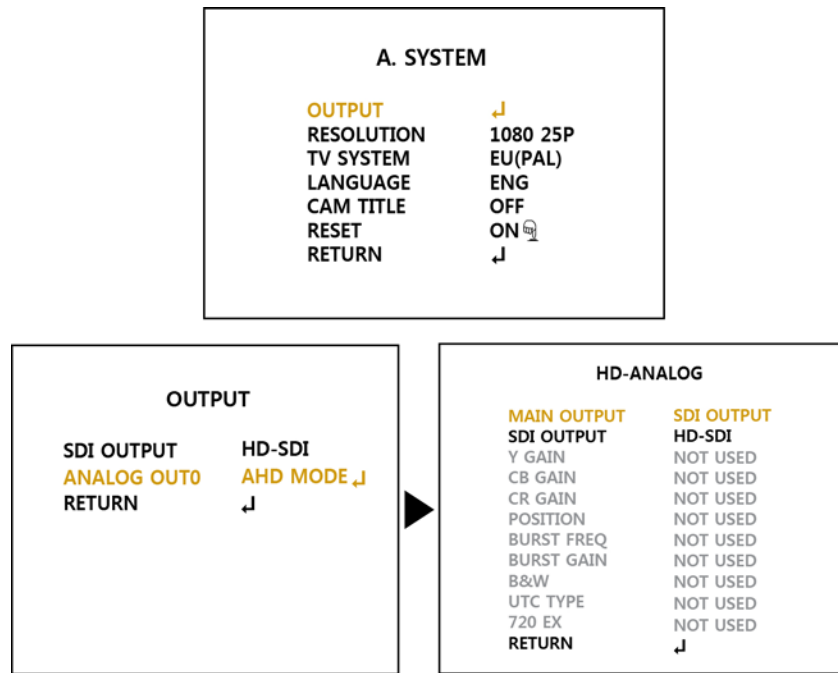
5.9.5. MOTION OSD

Sets ON or OFF to display the motion results.

5.9.6. TEXT ALARM

Setting ON displays a text message 'WINDOWS MOVING!!' or icon when the motion is detected.

5.10. SYSTEM



Sets the system related functions.

5.10.1. OUTPUT

Selects the main video output.

5.10.1.1. SDI OUTPUT:

Selects the SDI output OFF, HD-SDI, EX-SDI 1.0, EX-SDI 2.0

5.10.1.2. ANALOG OUT0:

Selects HD-ANALOG modes AHD MODE, TVI MODE, CVI MODE or CVBS.

Please set ANALOG OUT0 to AHD MODE, TVI MODE or CVI MODE if CVBS video is necessary through sub-out port.

* AHD, TVI and CVI not available on current model (24RS2.0XW-EXSDI).

If ANALOG OUT0 is set to CVBS, there is no CVBS video through sub-out port, on OSD PCB.

※ If CVBS video is enabled through ANALOG OUT0 or Sub-out port, WDR and 3D-NR functions are disabled in all video outputs.

5.10.2. RESOLUTION

Select the video resolution 1080p / 720p

1080p (1920x1080) video has frame rates of 25fps/30fps.

720p (1280x720) video has frame rates of 25fps/30fps / 50fps/60fps.

5.10.3. TV SYSTEM

Selects HDTV standards for analog video output switches to 60HZ, US (NTSC) or 50HZ, EU (PAL) accordingly.

5.10.4. LANGUAGE

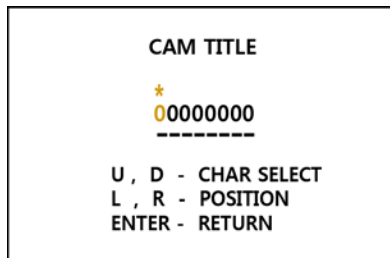
6 languages are available for OSD menu.

English, Korean, Japanese, Chinese(S), Chinese, German.

5.10.5. CAM TITLE

Camera title (name) can be set and edited with alphanumeric characters. Select the camera title position 'LEFT DOWN' or 'RIGHT UP' on the video. Then ◀, ▶ moves the cursor and ▲, ▼ chooses a character to select it.

The selected characters are added and displayed on the input line.



5.10.6. RESET

Loading Factory Default.

5.11. EXIT

Exits SETUP MENU and returns to the normal display.

5.11.1. SAVE

Saves all the settings and exit the setup menu.

5.11.2. CANCEL

Exit the setup menu without saving.

6. Specifications

Electrical		24RS2.0XW-EXSDI
Image Sensor		2MP 1/2.8" STARVIS IMX291 sensor
Effective Pixels		1920 x 1080
Scan Frequency		25 / 30hz / Progressive
Video Format		HD 16:9, CVBS 16:9
Video Output		EX-SDI (1.0, 2.0) HD-SDI CVBS 1Vp-p ± 10%, 75Ω
Synchronization		Internal
Video Resolution		1920x1080 (30/25fps@2MP) 720p (30/25fps) and 720p cropped (60/50fps)
Min. Illumination		Color: 0.08 LUX, B/W: 0.005 LUX @50 IRE Color: 0.005 LUX, B/W: 0.0001 LUX in "Sens-up"
Signal to Noise Ratio		>50dB (AGC off)
Exposure		Brightness / Shutter / Sens-up / AGC
White Balance		AUTO / AUTOext / PRESET (push to set) / MANUAL
WDR*	WDR	>100dB True Wide Dynamic Range by dual scan images in two frames at 30fps/ 25fps
	ROI-WDR	Region of Interest Wide Dynamic Range (YES)
DNR (Digital Noise Reduction)		YES
Mirror / Flip		Off / On
Operating Power		12VDC +/- 0.5V, polarity protected
Power Consumption		<1.3W
Parameter Controls (OSD)		
Functions		NTSC/PAL, ACE (D-WDR), Motion Detection, Privacy Mask, Defog, Sens-up (x32), Sharpness, Mirror/Flip, BLC/HLC, Deblur, Anti- Saturation, Color Bar, Title Set, Smart IR, Day/Night settings
Environmental		
Operating Temp.		-10°C - 50°C (14°F - 122°F)
Operating Humidity		20% - 80%RH
OSD Control Board (Optional to connect to connector#2)		
60ZRC08	control board	
Cables		
60C1026 Included	6", 3pin molex to flying leads. Power/CVBS only	
60C1200 Optional	Power/CVBS/HD-SDI cable all in one with breakout to SDI and connector 1 and 2	
60C1204 Optional	MMCX Plug to bulkhead type BNC HD-SDI and EX-SDI	

***EX-SDI / HD-SDI only**

7. Contact Information

For technical assistance with this product, please contact the supplier from whom the product was purchased.

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