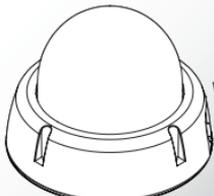
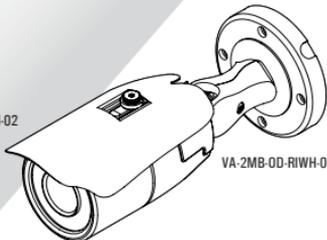


# 3xLOGIC



VA-2MD-0D-RIWH-02



VA-2MB-0D-RIWH-02

## VISIX Gen III HD Analog Cameras

### *OSD Settings Menu Guide* Ver. 1.0 / 2020.05

Before installing and using the camera, please read this manual carefully.  
Be sure to keep it handy for future reference.



- This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
  - This device may not cause harmful interference.
  - This device must accept any interference received, including interference that may cause undesired operation.

**Note:** 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.
- This device complies with CAN ICES-3 (A)/NMB-3(A)
- This device is UL and ULCE467574 (Safety) certified.
- This device complies with CE 2014/30/EU – EMC Directive, 2015/863/EU RoHS3 as part of 2011/65/EU RoHS
- This device complies with WEEE

## OSD MENU

03	OSD Menu Tree
05	Exposure Settings
08	Color Settings
09	Day & Night Settings
11	Function Settings
12	Motion Settings
14	Privacy Settings
15	Setup Menu
17	Exit Menu

 **NOTE :** Settings can be adjusted using the built-in OSD joystick. Refer to your camera's quick start guide for details on the location and operation of the OSD joystick. Product documentation is available at the [www.3xlogic.com](http://www.3xlogic.com) Product Documentation library .

## EXPOSURE

LENS	MANUAL / AUTO
BACKLIGHT	OFF / HME / BLC / WDR
DRC	OFF / LOW / MIDDLE / HIGH
DEFOG	OFF / ON
AGC	0 ~ 10
SENS-UP	OFF / x2 ~ x32
3D DNR	OFF / LOW / MIDDLE / HIGH
EXIT JUMP	

## DAY & NIGHT

MODE	AUTO / COLOR / BW / EXTERN
CDS THRES	0 ~ 20
CDS MARGIN	0 ~ 20
EXTERN SW	LOW / HIGH
EXT LED	OFF / AUTO
DELAY	LOW / MIDDLE / HIGH
SMART IR	0 ~ 20
EXIT JUMP	

## COLOR

WHITE BAL.	AUTO / AUTO-EX / PRESET / MANUAL
COLOR GAIN	0 ~ 20
RETURN	

## FUNCTION

SHARPNESS	0 ~ 10
GAMMA	0.45 ~ 0.75
MIRROR	OFF / ON
FLIP	OFF / ON
EXIT JUMP	



## MOTION

MOTION	OFF / ON
DET WINDOW	
DET TONE	0 ~ 4
MDRECT FILL	OFF / ON
SENSITIVITY	0 ~ 10
MOTION OSD	OFF / ON
TEXT ALARM	OFF / ON
SIGNAL OUT	OFF / ON
EXIT JUMP	



## PRIVACY

PRIVACY	OFF / ON
ZONE NUM	0 ~ 15
ZONE DISP	OFF / ON
H-POS	0 ~ 59
V-POS	0 ~ 33
H-SIZE	0 ~ 60
V-SIZE	0 ~ 34
Y LEVEL	0 ~ 20
CB LEVEL	0 ~ 20
CR LEVEL	0 ~ 20

TRANS	0 ~ 3
EXIT JUMP	



## SETUP

COMMUNICA	
CAM TITLE	OFF / RIGHT UP / LEFT DOWN
IMAGE RANGE	FULL / COMP / USER
FREQ	50Hz / 60Hz
LANGUAGE	ENG / CHN / CHN(S) / JPN / KOR
INITIAL	OFF / ON
EXIT JUMP	



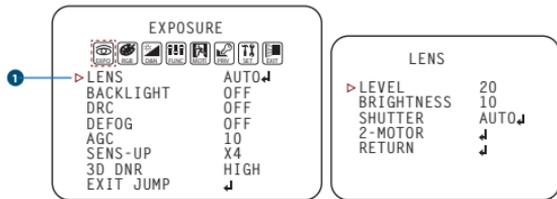
## EXIT

SAVE & EXT	
EXIT	

# Exposure Settings

## 1 LENS

**MANUAL** : Manual mode supports the fixed board lens or the manual iris lens.  
**AUTO** : AUTO mode sets the camera's iris automatically.



Under the LENS sub-menu, you can adjust the following settings :

### 1. LEVEL

Change the camera's iris value manually. If AUTO is selected, this option is disabled.

### 2. BRIGHTNESS

Adjust the camera's brightness from 0~20. The higher the number, the brighter the image will appear.

### 3. SHUTTER

Set the shutter speed to AUTO, Manual, or FLC (Flicker-less mode).

\* If AUTO is selected, select from the following options :

- NORMAL : Set when the camera is installed in an indoor environment.
- DEBLUR : Set when the camera is installed in an outdoor environment.

\* Select FLC if the camera is experiencing some flickering in the image.

The shutter speed will be set to 1/100 for NTSC, or 1/120 for PAL.

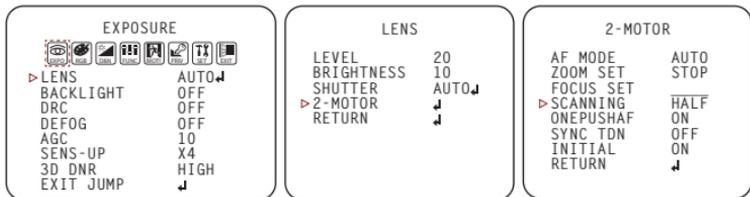
\* If Manual is selected, set the shutter speed from the options :

- 1/30(1/25) ~ 1/30000.

# Exposure Settings

## 4. 2-MOTOR

Set the 2-Motor Lens sub-menu.



### AF MODE

AUTO : Auto Focus

MANUAL : Manual Focus & Zoom In/Out.

- Zoom Set : Adjust the zoom by operating the OSD keys to left and right.

OSD R→Tele , L→Wide

- Focus Set : Adjust the focus by operating the OSD keys to left and right.

OSD R→Far , L→Near (Activate in AF Mode Manual only)

### SCANNING

Half : Auto focus scanning area operation in half area.

Full : Auto focus scanning operation in full area.

### ONEPUSHAF

Auto focus operation on current image.

### SYND TDN

Auto focus operation when Day or Night changes.

### INITIAL

Two Motor Lens initialization.

# Exposure Settings

## 2 BACKLIGHT

### OFF

### HME (HIGHLIGHT MASKING EXPOSURE)

HME allows objects to appear clearly on the screen by masking extremely bright areas.

To setup HME, set the level and color.

The lower the setting, the darker the masking areas have to be. Select from : 0 ~ 20.

Color : Set the color of the HME mask.

Select from : BLACK / WHITE / YELLOW / CYAN / GREEN / MAGENTA / RED / BLUE / CUSTOMIZE

### BLC (BACK LIGHT COMPENSATION)

If BLC is selected, adjust the size and position of the mask:

- H-POS : Move the Zone position left or right.  
The higher the number, the zone will move to the right.
- V-POS : Move the Zone position up or down.  
The higher the number, the zone will move down.
- H-Size : Reset the zone's size horizontally. The higher the number, the right side panel will move further to the right.
- V-Size : Reset the zone's size vertically. The higher the number, the bottom side panel will move further down.

### WDR (Wide Dynamic Range)

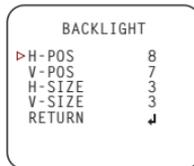
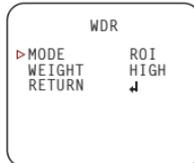
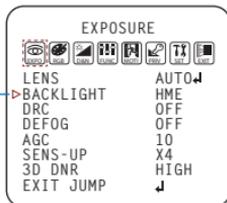
If WDR is selected, adjust the WDR level (Weight) in the sub-menu.

Select from LOW, MIDDLE, or HIGH (Default).

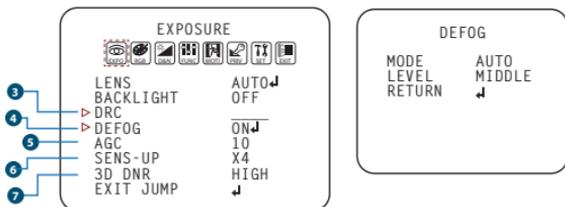
### ROI (Region of Interest)

To have more efficient scene result, up to 4 regions are able to be selected for WDR effect to maintain the most suitable color appearances.

- WDR&3D-DNR functions can't be operated simultaneously. Once the WDR may activate then the DNR function shifts to 2D-DNR although DNR functions set by 3D-DNR as default setting.



# Exposure Settings



## 3 DRC (DYNAMIC RANGE COMPRESSOR)

DRC enables dark areas in images to become more visible without overexposing the bright areas to create one perfect image. Select from : OFF / LOW / MIDDLE / HIGH

## 4 DEFOG

Allows the camera to process a scene that is obscured by fog or weather conditions and provides a visibly improved image. AUTO / MANUAL : Select AUTO to have the WDR and DRC levels adjusted automatically. Set the DEFOG level from LOW / MIDDLE / HIGH.

## 5 AGC (AUTO GAIN CONTROL)

0~10 - AGC enhances the picture brightness in low light conditions. A higher level AGC setting makes the images brighter, however, it could increase the amount of noise.

## 6 SENS-UP

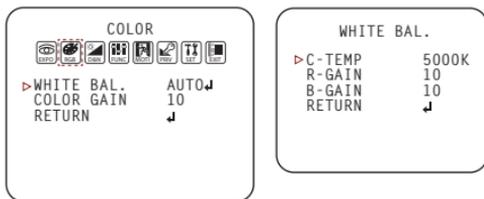
OFF / x2 ~ x32(Default : X4) - Automatically activates slow shutter function when the image is too dark. High values are not recommended as they may causes the image to lag. Sens-up menu cannot be controlled if the SHUTTER setting is above 1/30.

## 7 3D DNR (3D DIGITAL NOISE REDUCTION)

OFF/LOW/MIDDLE/HIGH - 3D-DNR reduces the noise on the screen in low light conditions and allows for clearer images, even at night.

# Color Settings

## WB MODE



## AUTO

Auto Tracking White Balance Control mode compensates for color temperature changes between 2500K\* and 12000K\*.

## AUTO-EX

Auto White Balance Control mode compensates for color temperature changes lower than 2500K\* and higher than 12000K\*.

## PRESET

Preset fixes the white balance based on the current lighting automatically.

## MANUAL

Users can control the white balance manually by changing RED GAIN and BLUE GAIN. (see blow)

C-TEMP : Select the color temperature for the white balance setup.

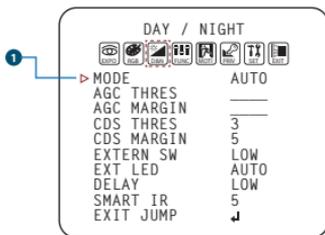
If enabled, the Red and Blue Gain settings will be set automatically according to the C-TEMP selected.

RED GAIN : 0 ~ 20. Adjusts the amount of red in the image.

BLUE GAIN : 0 ~ 20. Adjust the amount of blue in the image.

**COLOR GAIN** Set the color gain from 0~20.

# Day & Night Settings



## 1 MODE

AUTO : Day/ Night switch will be based on the CDS levels.

COLOR : The camera always stays in day/color mode.

B&W : The camera always stays in night/B&W mode.

EXTERN : Day/ Night switch will be based on using IR LED lights.

### \* WITHOUT LED

- AGC Threshold : Set when the camera switches between Day & Night.

- AGC Margin : Set the value added to the AGC Threshold. Adjust the value based on the environment in which the camera is installed. If the margin is too low, the camera will switch from color to B/W and back.

### \* WITH LED

- CDS Threshold : Marks the light level at which the camera will switch between color and B/W. The lower the value, the camera will require less light (more darkness) to switch to Night Mode.

- CDS Margin : The value added to the CDS Threshold. Adjust this based on the environment in which the camera is installed. If the margin is too low, the camera will switch from color to B/W and back.

- EXTERN SW : Select Extern SW according to the LED signal from : LOW/HIGH

# Day & Night Settings

DAY / NIGHT						
						
MODE		AUTO				
▷	AGC THRES	---				
▷	AGC MARGIN	---				
	CDS THRES	3				
	CDS MARGIN	5				
	EXTERN SW	LOW				
	EXT LED	AUTO				
	DELAY	LOW				
	SMART IR	5				
	EXIT JUMP	↓				

## 2 EXT LED

AUTO : The LEDs are enabled/ disabled by the CDS Sensor on the LED Board.  
OFF : The camera's LEDs are disabled manually.

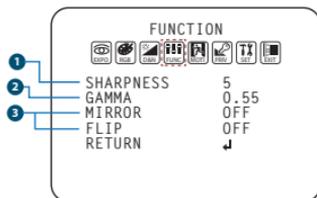
## 3 DELAY

LOW/MIDDLE/HIGH : Time interval delay before switching from day mode to night mode.

## 4 SMART IR

0 ~ 20 : Enable Smart IR and set the level. Higher values will make Smart IR stronger.

# Function Settings



## 1 SHARPNESS

0 ~ 10 - Sets the image sharpness. The higher the number, the sharper the image.

## 2 GAMMA

0.45 ~ 0.75 - Select the desired gamma level. 0.55 is default setting.

## 3 MIRROR / FLIP

OFF

MIRROR : Reflects the camera horizontally.

FLIP : Reflects the camera vertically.



MIRROR / FLIP  
OFF



MIRROR  
ON



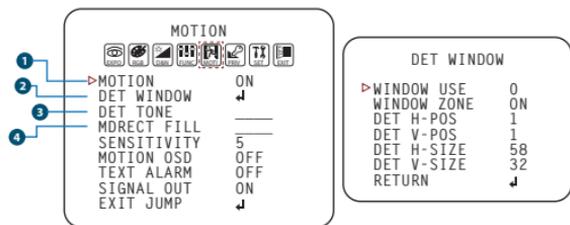
FLIP  
ON



MIRROR / FLIP  
ON

# Motion Settings

The camera can detect movement and display an alarm on the screen, when movement is detected.



## 1 MOTION

To use the motion detection settings, before Motion is ON.

## 2 DET WINDOW

- WINDOW USE : Select which one of the motion areas to enable.
- WINDOW ZONE : The camera supports up to 4 different masks. Select which ones to display.
- DET H-POS : Move the zone left or right.  
The higher the number, the zone will move to the right.
- DET V-POS : Move the zone up or down.  
The higher the number, the zone will move down.
- DET H-SIZE : Adjust the zone's size horizontally.  
The higher the number, the right side panel will move further to the right.
- DET V-SIZE : Reset the zone's size vertically.  
The higher the number, the bottom panel will move down.

## 3 DET TONE

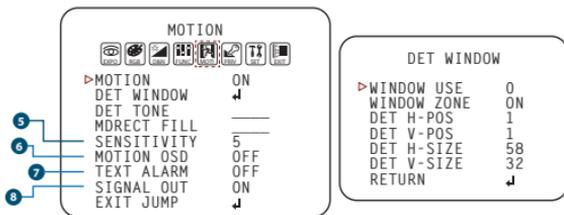
Four different motion tone color available.

## 4 MDRECT FILL

Color setting for operating motion zone.

# Motion Settings

The camera can detect movement and display an alarm on the screen, when movement is detected.



## 5 SENSITIVITY

The smaller the movement you want to detect, the higher the sensitivity value must be.

## 6 MOTION OSD

MOTION ZONE display. MOTION OSD interoperable with 'DET TONE' and 'MDRECT FILL'.

## 7 TEXT ALARM

Setup a text to appear on the screen when motion is detected explaining the alarm situation.

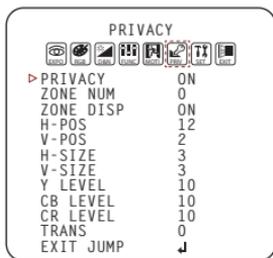
- WINDOW MOTION: Will appear when a motion alarm is detected.
- CAMERA MOVING : Will appear if the camera is shaken abruptly.

## 8 SIGNAL OUT (ON/OFF)

- ON : 'HIGH' SIGNAL OUT upon ALARM.
- OFF : 'SIGNAL OUT' o regardless of ALARM.

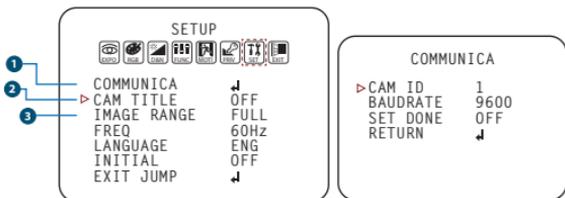
# Privacy Settings

You can hide some parts of the screen for privacy masking. A total of 16 different privacy masking zones are available. The cameras support square privacy masks or advanced polygon masks.



- ZONE NUM : Select the zone number between 0~15.
- ZONE DISP : Zone display ON/OFF
- H-POS : Move the Zone position Left or right. The higher the number, the zone will move to the right.
- V-POS : Move the Zone position up or down. The higher the number, the zone will move down.
- H-SIZE : Reset the zone's size horizontally. The higher the number, the right side panel will move further to the right.
- V-SIZE : Reset the zone's size vertically.  
The higher the number, the bottom side panel will move further down.
- Y LEVEL : The higher the number, the brighter the color will appear.
- CR LEVEL : The higher the number, the more red tone will be added to the zone's color.  
The lower the number, the more green will be added to the zone's color.
- CB LEVEL : The higher the number, the more red tone will be added to the zone's color.  
The lower the number, the more red will be added to the zone's color.
- \* High CB Level + High CR Level = Pink
- \* High CB Level + Low CR Level = Sky Blue
- \* Low CB Level + High CR Level = Orange
- TRANS : Set the mask's transparency level from 0~3. The default value is 0.

# Setup Menu



## 1 COMMUNICATION

Adjust the camera's ID and Baudrate. Default Protocol is Pelco-D.

- CAM ID : Provide an ID number for the camera (0 ~ 255).
- BAUDRATE : 9600bps is default. Select the baudrate from the following options :  
2400/4800/9600/57600/115200 bps.
- SET DONE : Set the value of CAM ID and BAUDRATE.

**NOTE** : Be sure to press "Save&Exit" button on the EXIT menu before exiting.

## 2 CAM. TITLE

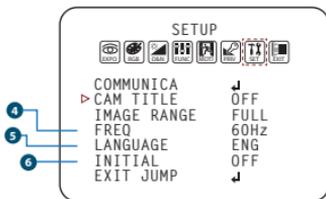
Add a name to the camera. Set the title by using the OSD joystick.

## 3 IMAGE RANGE

Image Range allows you to set the proper Black and White levels according to the external display you use.

- FULL : Display all BLACK level and WHITE level without compression.
- COMP : Display BLACK level and WHITE level with compression.
- USER : Reset the BLACK level by changing the OFFSET value.

# Setup Menu



## 4 FREQ

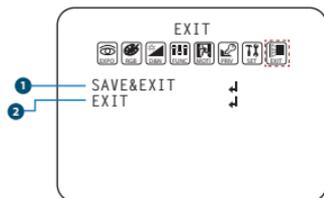
When the camera's image appears to have flickering issues, change the frequency value to adjust the image.

## 5 LANGUAGE

Select from the following: English (Default), Chinese, Chinese (S), Japanese, and Korean.

## 6 INITIAL

Reset the camera to its default settings. Press and hold the select button for 5 seconds.



- 1 SAVE & EXIT**  
Exit the OSD menu after saving the recent changes.
- 2 EXIT**  
Exit the OSD menu without saving any changes.

The logo for 3xLOGIC features the number '3' in a bold, black, sans-serif font. To its right is a red 'x' symbol, followed by the word 'LOGIC' in a bold, black, sans-serif font. The entire logo is centered on the page.

**3xLOGIC**

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**Simple. Scalable. Secure.**