



VTD-HOCR6E2812-V 2.1MP HD-SDI / EX-SDI IP68 Vandal Resistant WDR IR Varifocal Dome Camera



VITEK

FEATURES:

- 1/2.9" Sony® Progressive Scan CMOS (IMX222)
- 2.1 MegaPixel with Full 1080p/720p HD-SDI (SMPTE292M) / EX-SDI Output
- Six (6) High Power 850nm IR LEDs with up to 160' foot range
- MegaPixel IR Corrected 2.8-12mm Varifocal Lens Included
- Mechanical IR Cut Filter (True Day/Night)
- 16:9 Video Format
- Advanced OSD Functions: Motion Detection, Sharpness, Gamma, Mirror, Flip, DSS, Freeze, D-Zoom, ACE, WDR, 3D-DNR, Defog, Privacy, HLM
- 100% Pure Digital Transmission of video data
- Up to 1000' HD Transmission Range (Depending on cable characteristics and integrity)
- IP68 Weather Resistance
- 12VDC/24VAC Dual Voltage Operation
- Available in Ivory or Black



Safety Precaution

- To prevent electrical shock and risk of fire hazards, do not expose this unit to rain or moisture and only use specified 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 electrical shock.



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 their 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.

Main power quality should be that of a typical commercial environment. If the user of the model requires continued operation during power interruptions, it is recommended that the device be powered from an uninterruptible power supply (UPS).

Safety Precaution

NOTICE

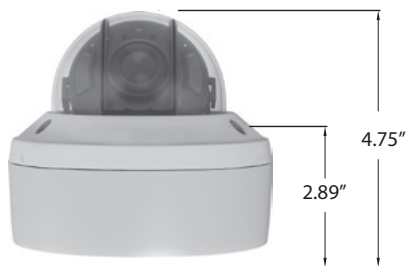
- The image used in this instruction manual are processed to help comprehension and may differ from actual video of the camera.
- Avoid installing in areas where shock or vibration may occur.
- Pay attention to safety when running the connection cables and make sure that the cables are not subject to heavy loads, kinks, moisture or damage.
- Never open the device (no user serviceable parts inside). The warranty becomes void if repairs are undertaken by unauthorized persons.
- Maintenance and repair have to be carried out only by authorized service centers.
- Use only a mild detergent to clean the housing.
- The camera should never be operated beyond the technical specifications. This can lead to damaging the device and void the warranty.
- The camera should never be operated in water.

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Dimensions

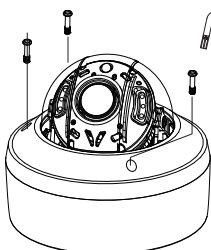
(unit : inches)



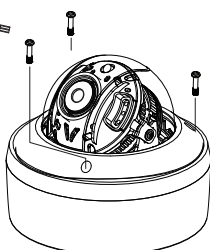
Installation Instructions

The Installation method is the same for the Varifocal and Fixed lens camera.
The product dimensions are the same for either camera.

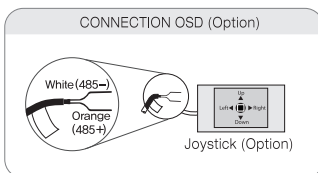
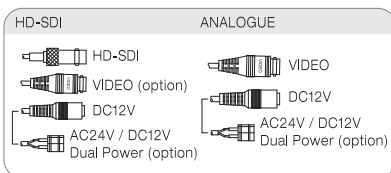
1. Place the mounting template at the installation position and drill the ceiling or wall if needed.
2. Open the dome cover by loosening screws. Use the torque wrench supplied.



IR cover integral Type



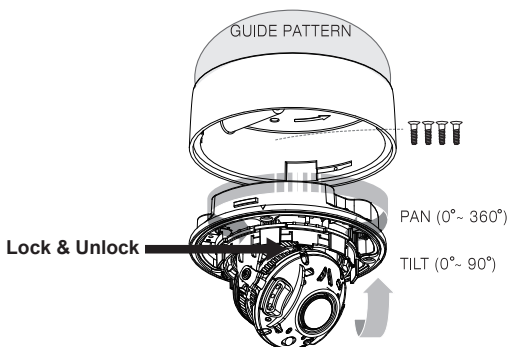
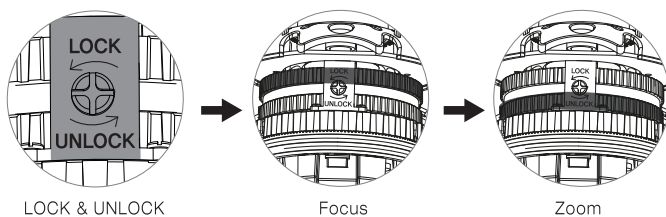
IR cover separable Type



Installation Instructions

Zoom & Focus (Varifocal)

1. While the camera is open using a phillips screw driver loosen the screw to adjust the Zoom & Focus as shown in the images below.
2. Tighten the screw to hold desired Zoom & Focus position.



Limit of Pan & Tilt

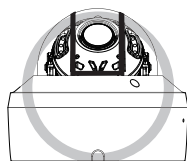
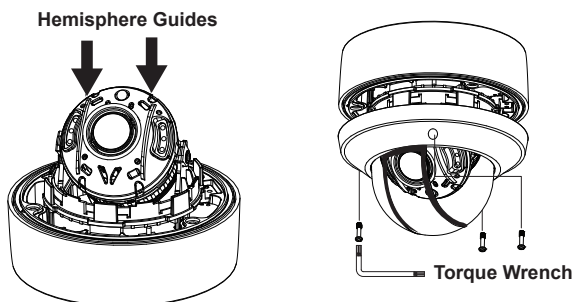
- 1) Pan limit:
Pan is limited to +/- 360°. Do NOT force the gimbal over the limit, this will prevent internal damage.
- 2) Tilt limit:
Tilt is limited to 0° min ~ 90° max. with reference to the ceiling when the inclination of camera module is 0°, that is, the image is aligned horizontally.

Installation Instructions

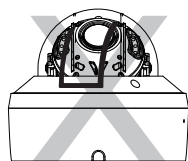
Attaching the Dome

There are 2 locations of the Hemisphere Guide in the IR dome cover.

1. To attach the dome cover line up the Hemisphere Guides as shown below.
2. Attach the dome cover to the dome base unit and tighten the assembly screws using the torque wrench.



Correct Assembly



Incorrect Assembly

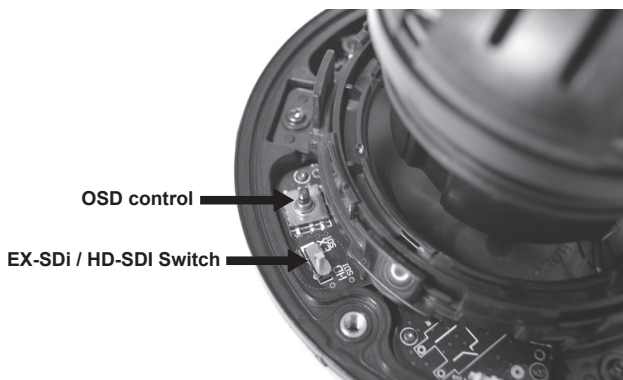
CAUTION

- If the Hemisphere Guides are not correctly assembled you may see a diffused reflection.
- Please line up the Hemisphere Guides as instructed for correct view.

Operating Instructions

Using OSD controller

- Setup menu can be accessed and controlled by OSD control joy stick on the inside of camera unit.
- EX-SDi / HD-SDI switch is located on the inside of camera unit.

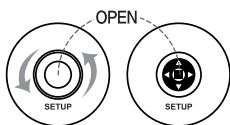


MENU

SETUP MENU							
EXPOSURE	LENS	BRIGHTNESS	SHUTTER	SENS-UP	AGC		
WHITE BAL	AWB	COLOR GAIN					
IMAGE	SHARPNESS DEFOG	GAMMA SHADING	MIRROR PRIVACY	FLIP	FREEZ	D-ZOOM	ACE
BACKLIGHT	OFF	WDR	BLC	HLC			
DAY&NIGHT	AUTO	COLOR	B/W	EXTERN			
DNR	OFF	HIGH	MIDDLE	LOW			
MOTION	OFF	SET					
SERIAL	CAM ID	ID DISPLAY	BAUDRATE				
SYSTEM	DEFECT DET LANGUAGE	IMAGE SCALE CAM TITLE	COLOR SPACE FCM MODE	VIDEO FACTORY SET	FRAME RATE		
EXIT							

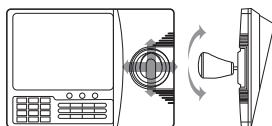
Above specifications may be changed without any notice.

OSD SETTINGS

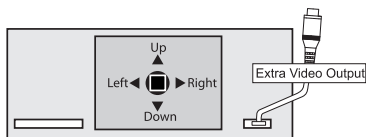


Outside type (bullet)

To Setup, turn the cover counter-clockwise.



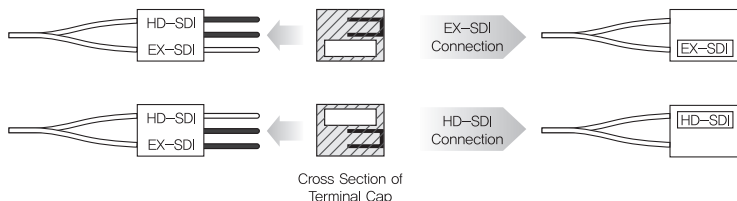
- Call OSD MENU : 1. Call #95
2. Open button
- Zoom in : Tele button or Joystick
- Zoom out : Wide button or Joystick



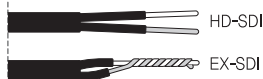
Inside type (dome)

How to connect by using the Ex-sdi and hd-sdi cable

cable type 01



cable type 02



switch type



RS-485

Using a RS-485 communication, it will be able to control the OSD menu at the System Controller or DVR,

(1) The case which it controls from the PC

Using a RS-485 converter, It connects to RS-485 control cable outside camera and serial cable

EX) SERIAL PORT OF THE PC(COM1) → SERIAL CABLE → RS-485 CONVERTER → RS-485 CONTROL CABLE

(2) The case which it controls from the DVR or System Controller It connects the RS-485 control cable in the connection terminal of 485 control boards which are connected with the DVR or System Controller,

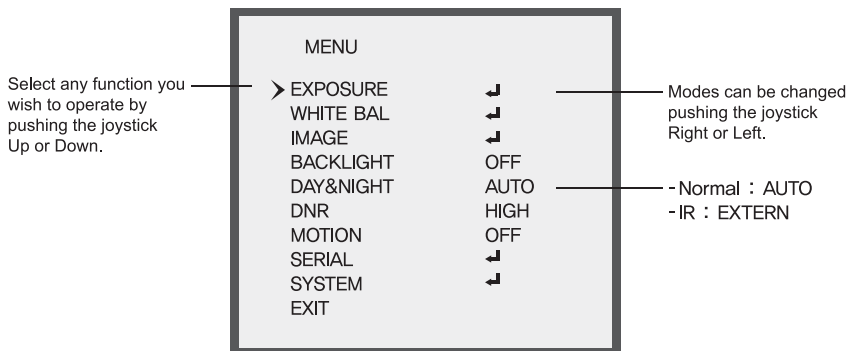
485 Control Board Connection Port	RS-485 Control Port
(+) CONNECTION TERMINAL (R+)	485+
(-) CONNECTION TERMINAL (R-)	485-

▶ RS-485 Communication establishment initial value

Item	Camera ID	BAUD RATE	UART MODE	RET PKT
Initial value	0	9600	8-NONE-1	Not supported

- When you construct external control systems for a camera control, please use to the PROTOCOL or PELCO-D PROTOCOL.
- When you connecting to RS-485 control cable, please peel off the outer skin inside the RS-485 control cable.

MENU



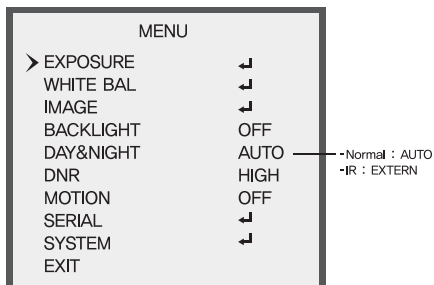
1. Please press the SET button
 - Settings can now be made. The SET menu is displayed on the monitor.
 - To run the OSD menu, please press and hold the SET button for three seconds.
2. Please select any function you wish to activate by pushing the button Up or Down
 - The cursor position will appear green on your screen.
You can push the button Up or Down to change function you wish to change.
3. Please press the button Right or Left if you wish to change mode.
 - When the button is pressed Right or Left, available values and mode are displayed in order. Please keep press the button until you get the mode you wish.
4. Please select "EXIT" and then press the button to finish the setting.

SETUP

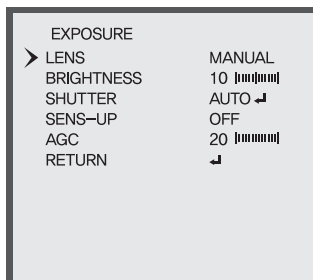
- EXPOSURE, WHITE BAL, IMAGE, BACKLIGHT, DAY&NIGHT, DNR, MOTION SERIAL, SYSTEM, EXIT control can be selected,
- When the MAIN MENU is on the screen, please position the cursor to SETUP by using the button, And then press the button.

EXPOSURE

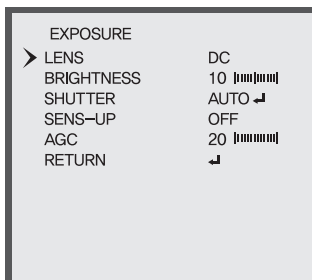
- When the SETUP menu screen is displayed, select EXPOSURE by using the Up and Down buttons so that arrow indicates EXPOSURE.
- Select a desired mode using the Right and Left buttons.



FIX / MV



V/F

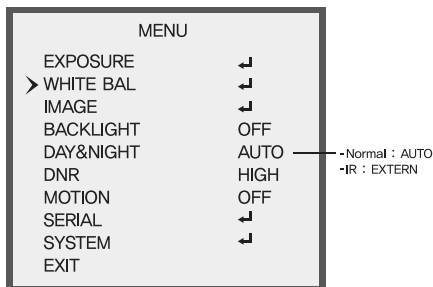


- LENS : When using BUILT - IN LENS, the type of the lens is able to fix. (DC / MANUAL)
- BRIGHTNESS : Left Key (Level DECREMENT), Right Key (Level INCREMENT)
- SHUTTER
 - AUTO : MODE (DEBLUR / NORMAL)
 - FLICKER : Select this when you experience picture flicker, which can happen when there is a clash with the frequency of the installed lighting.
 - MANUAL : SPEED (1/30, 1/60, 1/120, 1/250, 1/700, 1/1000, 1/1600, 1/2500, 1/5000, 1/7000, 1/10000, 1/30000)

- SENS_UP : OFF / X2 / X4 / X8 / X16 / X32
 - Sens-up is realized in the most low illumination quality and it provides the image without a noise at the low illumination quality.
 - When it is night or dark, the camera automatically detects the light level and maintains a clear picture if this mode is activated.
 - When "SENS_UP" is on, shutter cannot be adjusted.
- AGC (Auto Gain Control) : The higher the gain level, the brighter the screen - but the higher the noise.

WHITE BAL

- Use the White Balance function to adjust the screen color.
- When the SETUP menu screen is displayed, select 'White Bal.' by using the Up and Down buttons so that the arrow indicates 'White Bal.' .
- Select a desired mode using the Right and Left buttons.



- AWB

- AUTO : Default - This function continuously adjusts the white balance automatically to adapt to changes in lighting conditions.
- AUTOext : It is a mode to do a halogen and the special lighting to White detection.
- PRESET : This function adjusts the white balance regardless of the subject conditions.

WHITE BAL	
> AWB	MANUAL ↴
COLOR GAIN	10 []
RETURN	↵

MANUAL	
> C-TEMP	500K
R-GAIN	10 []
B-GAIN	10 []
RETURN	↵

- MANUAL - KELVIN : LOW / MIDDLE / HIGH
 - R-GAIN : Left Key (Level DECREMENT), Right Key (Level INCREMENT)
 - B-GAIN : Left Key (Level DECREMENT), Right Key (Level INCREMENT)
- COLOR GAIN : Control 0 to 20 by right and left button,

IMAGE

- SHARPNESS, GAMMA, MIRROR, FLIP, FREEZ, D-ZOOM, ACE, DEFOG, SHADING, PRIVACY, REYURN control can be selected,

MENU	
EXPOSURE	↵
WHITE BAL	↵
> IMAGE	↵
BACKLIGHT	OFF
DAY&NIGHT	AUTO
DNR	HIGH
MOTION	OFF
SERIAL	↵
SYSTEM	↵
EXIT	

- Normal : AUTO
- IR : EXTERN

IMAGE	
> SHARPNESS	5 []
GAMMA	0,55
MIRROR	OFF
FLIP	OFF
FREEZ	OFF
D-ZOOM	1,0X
ACE	OFF
DEFOG	OFF
SHADING	OFF
PRIVACY	↵
REYURN	↵

- SHARPNESS : Control 0 to 10 by right and left button,
- GAMMA : Adjust Gamma value. (0,45 / 0,50 / 0,55 / 0,60 / 0,65 / 0,70 / 0,75)
- MIRROR / FLIP : You can select function by using LEFT or RIGHT button.



OFF

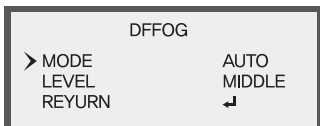
MIRROR (ON)

FLIP (ON)

- FREEZE : The video can be stopped.
- D-ZOOM : You can use a digital zoom of 1,0x ~ 16,0x

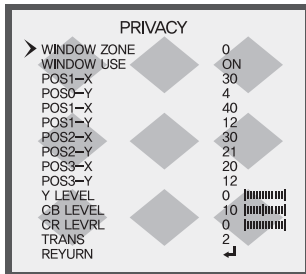
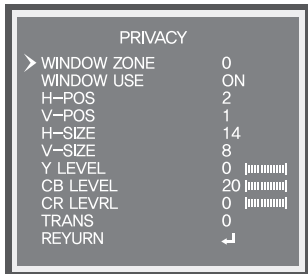
- ACE (Adaptive Color & Contrast Enhancement) : OFF, LOW, MIDDLE, HIGH

ACE black performs an image Enhancement processing to enhance visibility of an image by changing the brightness values to the level that people can recognize the change. This processing technique is equivalent to the dynamic range reduction technique, Which converts the HDR (High Dynamic Range) into the restricted LDR (Low Dynamic Range)



- DEFOG : MODE (you can select AUTO / MANUAL)
LEVEL (you can select LOW / MIDDLE / HIGH)

- SHADING : When using wide angle lens, you can compensate darkness of corner on the screen,



- PRIVACY : This modes conceals the areas you do not wish to appear on the screen,

-WINDOW ZONE : Select the region to apply Privacy (0~15)

-WINDOW USE : you can select (ON/OFF)

-SQUARE : H-POS, V-POS, H-SIZE, V-SIZE

You can move the position of the range that you selected in the WINDOW ZONE to Left, Right, Up, Down,

-POLYGON : POS1-X, POS0-Y, POS1-X, POS1-Y, POS2-X, POS2-Y, POS3-X, POS3-Y

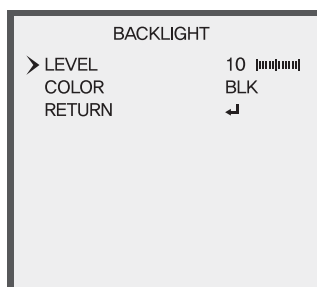
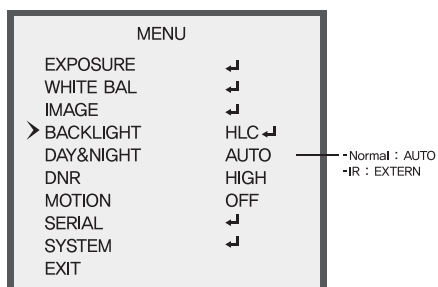
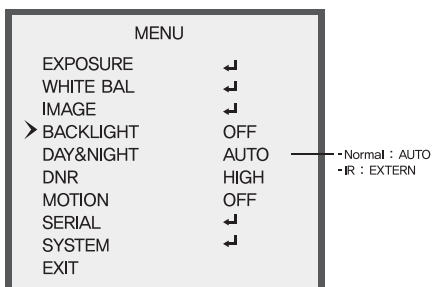
You can move the position of the range that you selected in the WINDOW ZONE to Left, Right, Up, Down,

-Y LEVEL : Control 0 to 20 right and left button,

-CB LEVEL, CR LEVEL : The color gain controls CB, CR level,

-TRANS : Adjust TRANS value, (0, 1, 2, 3)

BLACKLIGHT



• HLC (High Light Compensation)

Function is being prevented against headlights of vehicle effectively, it is the most suitable function to see license plates at night.

- LEVEL: You can set the level point of HLC

MENU	
EXPOSURE	↓
WHITE BAL	↓
IMAGE	↓
➤ BACKLIGHT	BLC ↓
DAY&NIGHT	AUTO
DNR	HIGH
MOTION	OFF
SERIAL	↓
SYSTEM	↓
EXIT	

--Normal : AUTO
-IR : EXTERN

BACKLIGHT	
➤ H-POS	5
V-POS	6
H-SIZE	8
V-SIZE	5
RETURN	↓

• BLC (Backlight Light Compensation)

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 BLC function.

- BLC OSD : The area to apply the BLC function is shown in BOX shape,
- H-POS : You can move the range to apply BLC to Left and Right
- V-POS : You can move the range to apply BLC to Up and Down
- H-SIZE : You can increase and decrease the size of the range to apply BLC horizontally,
- V-SIZE : You can increase and decrease the size of the range to apply BLC vertically,

MENU	
EXPOSURE	↓
WHITE BAL	↓
IMAGE	↓
➤ BACKLIGHT	WDR ↓
DAY&NIGHT	AUTO
DNR	HIGH
MOTION	OFF
SERIAL	↓
SYSTEM	↓
EXIT	

--Normal : AUTO
-IR : EXTERN

BACKLIGHT	
➤ WEIGHT	MIDDLE
RETURN	↓

• WDR (Wide Dynamic Range) : OFF / LOW / MIDDLE / HIGH

By using the WDR function, you can distinguish object in the dark.

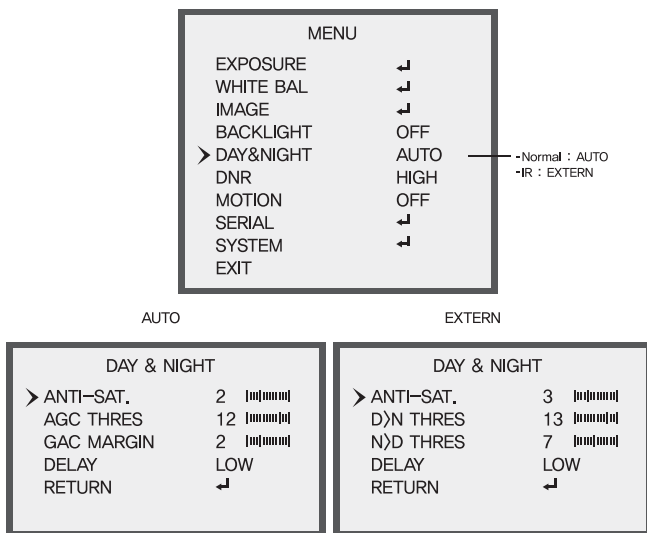


WDR (ON)



WDR (OFF)

DAY & NIGHT

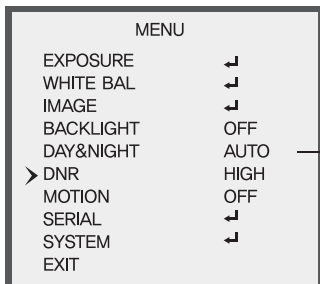


- AUTO : The camera will automatically show color image in high lux and black / white image in low lux.
 - AGC THRES : It controls gain level for changing Day > Night mode.
 - AGC MARGIN : It controls gain level for changing Night > Day mode.
 - DELAY : D&N change on continual time condition set Day > Night or Night > Day. (HIGH, MIDDLE, LOW)
- COLOR : This picture is always displayed in color.
- B&W : The picture is always displayed in black and white. You can turn on or off the burst signal on B/W mode.
- EXTERN : Select this when the color is controlled by CDS sensor.
 - ANTI-SAT. : As Smart IR function, the smaller ANTI-SAT setting value, the weaker Smart IR function.
 - D\N THRES : It controls gain level for changing Day > Night mode. (0~255)
 - N\D THRES : It controls gain level for changing Night > Day mode. (0~255)
 - DELAY : D&N change on continual time condition set Day > Night or Night > Day. (HIGH, MIDDLE, LOW)

DNR

- DNR (Digital Noise Reduction)

Improve S/N ratio and more clean the low illumination quality and can be monitoring at night clearly without the image drag and noise phenomenon.

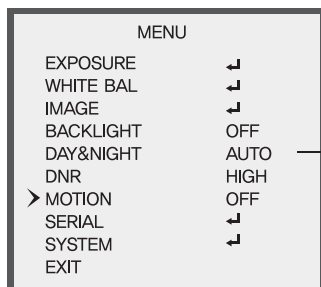


-Normal : AUTO
-IR : EXTERN

- OFF : DNR function does not operate.
- LOW / MIDDLE / HIGH : You can select 'LOW', 'MIDDLE' or 'HIGH' menu as DNR condition,


MOTION

Function of MOTION can designate the range of the user to detect the movement on the screen and adjust the size of the area. So, you can monitor the movement of an object on the given region more efficiently



-Normal : AUTO
-IR : EXTERN

- OFF : MOTION mode is cancelled.
- SET : Any motion in the selected areas is observed.

MOTION	
➤ AREA	↕
SENSITIVITY	5 
TEXT ALARM	OFF
RETRYRN	↕

AREA	
➤ WINDOW ZONE	0
WINDOW USE	ON
DET H-POS	0
DET V-POS	0
DET H-SIZE	60
DET V-SIZE	34
RETUEN	↕

- AREA
 - WINDOW ZONE : Select the region to apply MOTION
 - WINDOW USE : you can select (ON/OFF)
 - DET H-POS : You can move the range to apply WINDOW ZONE to Left and Right
 - DET V-POS : You can move the range to apply WINDOW ZONE to Up and Down
 - DET H-SIZE : You can increase and decrease the size of the range to apply WINDOW ZONE horizontally,
 - EEV-SIZE : You can increase and decrease the size of the range to apply WINDOW ZONE vertically,
- SENSITIVITY : Set the sensitivity of the moving detection,

SERIAL

MENU	
EXPOSURE	↕
WHITE BAL	↕
IMAGE	↕
BACKLIGHT	OFF
DAY&NIGHT	AUTO
DNR	HIGH
MOTION	OFF
➤ SERIAL	↕
SYSTEM	↕
EXIT	

- Normal : AUTO
- IR : EXTERN

SERIAL	
➤ CAN ID	0
ID DISPLAY	OFF
BAUDRATE	9600
RETUEN	↕

- CAM ID : You can select camera ID from 0 to 255 when using remote control.
- ID DISPLAY : You can select ID ON or OFF
- BAUDRATE : You can select 2400 / 4800 / 9600 / 57600 / 115200 bps. Support "pel-D protocol"

SYSTEM

MENU			SYSTEM	
EXPOSURE	↵		➤ DEFFCT_DET	ON ↵
WHITE BAL	↵		IMAGE SCALE	USER ↵
IMAGE	↵		COLOR SPACE	HD-CbCr
BACKLIGHT	OFF		VIDEO	NTSC
DAY&NIGHT	AUTO	---Normal : AUTO	FRAME RATE	1080_30p
DNR	HIGH	---IR : EXTERN	LANGUAGE	ENG
MOTION	OFF		CAM TITLE	OFF
SERIAL	↵		FCM MODE	OFF
➤ SYSTEM	↵		FACTORY SET	ON
EXIT			RETUEN	↵

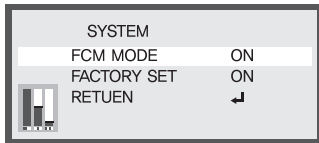
- DEFECT DET : DEFECT DET mode id OFF. (OFF) / Close the lens to block the light, (ON)
Adjust lrf & right buttons and press "SET" button to automatically start the mode.
- IMAGE SCALE : You can select. (USER (OFFSET Leve (0~32) / FULL / COMP)
- COLOR SPACE : You can select. (HD-Cbr / SD-CbCr / YUV)
- VIDEO : You can select. (NTSC / PAL)
- FRAME EATE : 1080P, 720P, 720 CROP
- LANGUAGE : ENG, CHN, CHN(S), JPN, KOR

CAM TITLE
*
00000000

U , D – CHAR SELECT
L , R – POSITION
ENTER – RETURN

- CAM TITLE : User writes TITLE / User sets TITLE ON/OFF.

- FCM MODE



- ▶ Left box : Focus of the area of the low illumination
- ▶ Middle box : Focus of the area of the intermediate illumination
- ▶ Right box : Focus of the area of the high illumination

- If you move slowly lens, the green box will begin to appear
- When you turn the lens for the green box not to be visible, Focus is the right.
- It is possible only one box of three boxes is right.

- FACTORY SET : Factory initialize.

EXIT

- Saves all the setting menus and then exits.

Detailed Specifications

Sensor	1/2.9" Sony® Progressive Scan CMOS (IMX222)
Resolution	2.1 MegaPixel (1080p / 720p)
S/N	More than 52 dB (AGC Off)
Video Output	Selectable: 1x HD-SDI (BNC) / EX-SDI (BNC) and 1x SD CVBS (BNC)
IR Illuminators	6 High Power IR LEDs
IR Color Temp.	850nm
IR Range	160'
Dynamic Intensity Smart IR LEDs	YES
Lens	MegaPixel IR Corrected 2.8-12mm Varifocal
Digital Zoom	0 ~ x16
Minimum Illumination	1 Lux at F1.2 / 0.1 Lux (B/W) / 0 Lux with IR On
Day/Night	Mechanical IR Cut Filter (True Day/Night)
Electronic shutter speed	Auto / Manual (1/30sec ~ 1/60,000sec)
White Balance	AUTO / AUTO EXT / PRESET / MANUAL
Brightness	Adjustable (0 ~ 20 Steps)
DSS (Sens-Up)	OFF / X2 ~ X32
DNR	3D-DNR
WDR	YES
Privacy Zones	YES (16 Zones / 8 Polygons)
Motion Detection	YES
ACE (Adaptive Color Enhancement)	YES
Advanced OSD Functions	Motion Detection, Sharpness, Gamma, Mirror, Flip, Freeze, D-Zoom, ACE, WDR, Defog, Shading, Privacy, HLM, Flip
Communication	RS-485 (Pelco® D)
HD Transmission Range	Over 1000' Using EX Mode (Depending on cable characteristics and integrity)
Weather Resistance Rating	IP-68
Cooling Fan	N/A
Operating Conditions	14°-122°F (-10°-50°C) < 80% RH
Input Voltage	12VDC / 24VAC (Dual Voltage)
Power Consumption (12VDC)	150MA (IR Off) / 550MA (IR On)
Power Consumption (24VAC)	70MA (IR Off) / 300MA (IR On)
Dimensions	4.75" x 5.85" (H x Dia.)



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- Up to 7 Simultaneous Network/Remote Connections
- 256 Camera Remote Viewing via CMS Software
- RS485 Communication port

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VITEK products carry a three (3) year limited warranty. VITEK warrants to the purchaser that products manufactured by VITEK are free of any rightful claim of infringement or the like, and when used in the manner intended, will be free of defects in materials and workmanship for a period of three (3) years, or as otherwise stated above, from the date of purchase by the end user. This warranty is nontransferable and extends only to the original buyer or end user customer of a VITEK Authorized Reseller.

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The product must not have been tampered with in any way or the guarantee will be considered null and void.

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