



MIGHTY DOME TRIO

2.1 Megapixel EX/HD-SDI/TVI/960H
All-in-One Dome Camera Series



- Sony 1/2.8" 2 MegaPixel "STARVIS" CMOS Image Sensor
- Up to 2.1 Megapixel with EX/HD-SDI, TVI, and 960H Video Output
- Up to 30fps live view @ 1080p
- MegaPixel IR Corrected 2.8-12mm Varifocal Lens
- Optional 35 Dynamic Infrared LEDs at 850nm enable viewing in total darkness up to 120 feet
- True Day/Night by ICR - Dual Filter Switch
- Block & Polygon Privacy Masking with 24 Programmable Zones
- XD-DNR (2D+3D DNR) Noise Reduction
- OSD (On Screen Display) for Camera Setup
- Wired Remote Control with Secondary Video Output Included
- Ultra Versatile Design with Infinity Ball Mount for Any Viewing Angle
- Can be Flush or Surface mounted and Fits Perfectly in 4S Back boxes (Indoor Versions) / 4-11S Back boxes (Vandal Versions)
- IP68 Weather Resistance with Extreme Cold Temperature Kit Available (Vandal Versions)
- Extensive mounting options available
- 1" Conduit Knockout
- Available in Ivory or Black
- 12VDC/24VAC Dual Voltage Operation



VITEK

PACKAGE CONTENTS

Before installing the camera, please make sure that the following items are included in the box:

1. Mighty Dome Trio Camera
2. Accessories
3. Wired remote controller
4. Instruction Manual & Mounting Template

If any of these materials are missing, please contact the vendor help desk immediately.

Available Models

Model	Description
VTD-M2HET2812	Mighty Dome Trio Indoor EX-SDI/TVI/CVBS Camera
VTD-M2RHET2812	Mighty Dome Trio Indoor EX-SDI/TVI/CVBS IR Camera
VTD-MV2HET2812	Mighty Dome Trio Vandal EX-SDI/TVI/CVBS Camera
VTD-MV2RHET2812	Mighty Dome Trio Vandal EX-SDI/TVI/CVBS IR Camera

DISCLAIMER

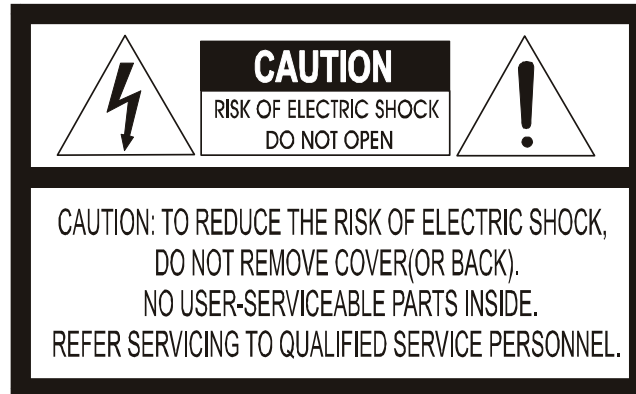
- While every effort has been made to ensure that the information contained in this guide is accurate and complete, no liability can be accepted for any errors or omissions.
- Our reserves the right to change the specifications of the hardware and software described herein at any time without prior notice.
- No part of this guide may be reproduced, transmitted, transcribed, stored in a retrieval system, or translated into any language in any form, by any means, without prior written permission of Our.
- Our makes no warranties for damages resulting from corrupted or lost data due to a mistaken operation or malfunction of the Speed Dome Cameras, peripheral devices, or unapproved/unsupported devices.

WARNING AND CAUTION

WARNING

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE. DO NOT INSERT ANY METALLIC OBJECTS THROUGH THE VENTILATION GRILLS OR OTHER OPENINGS ON THE EQUIPMENT.

CAUTION



EXPLANATION OF GRAPHICAL SYMBOLS



The lightning flash with arrowhead symbol, within an equilateral triangle, 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 exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instruction in the literature accompanying the product.

FCC COMPLIANCE STATEMENT

FCC INFORMATION: 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: CHANGES OR MODIFICATIONS NOT EXPRESSLY APPROVED BY THE PARTY RESPONSIBLE FOR COMPLIANCE COULD VOID THE USER'S AUTHORITY TO OPERATE THE EQUIPMENT.

THIS CLASS A DIGITAL EQUIPMENT COMPLIES WITH CANADIAN ICES-003.

CET APPAREIL NUMÉRIQUE DE LA CLASSE A EST CONFORME À LA NORME NMB-003 DU CANADA.

CE COMPLIANCE STATEMENT

WARNING

THIS IS A CLASS A PRODUCT. IN A DOMESTIC ENVIRONMENT THIS PRODUCT MAY CAUSE RADIO INTERFERENCE IN WHICH CASE THE USER MAY BE REQUIRED TO TAKE ADEQUATE MEASURES.

IMPORTANT SAFEGUARDS

1. Read these instructions.
 2. Heed all warnings.
 3. Follow all instructions.
 4. Do not use this equipment near water.
 5. Clean only with dry cloth.
 6. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
 7. Do not install near any heat sources such as radiators, heat registers, stoves, or other equipment (including amplifiers) that produce heat.
 8. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
 9. Protect the power cord from being walked on or pinched, particularly at plugs, convenience receptacles, and the point where they exit from the equipment.
 10. Only use attachments/accessories specified by the manufacturer.
 11. Unplug this equipment during lightning storms or when unused for long periods of time.
 12. Refer all servicing to qualified service personnel. Servicing is required when the equipment has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the equipment, the equipment has been exposed to rain or moisture, does not operate normally, or has been dropped.
 13. **CAUTION - THESE SERVICING INSTRUCTIONS ARE FOR USE BY QUALIFIED SERVICE PERSONNEL ONLY. TO REDUCE THE RISK OF ELECTRIC SHOCK DO NOT PERFORM ANY SERVICING OTHER THAN THAT CONTAINED IN THE OPERATING INSTRUCTIONS UNLESS YOU ARE QUALIFIED TO DO SO.**
- Use Certified/Listed Class 2 power supply transformer only.

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I. INSTALLATION AND CONFIGURATION

2.1 Installation

1) Dome Cover

- *Vandal Proof Domes - Use the provided Torx wrench to unscrew the vandal proof screws and remove the dome cover.*
- *Indoor Domes - Turn the dome cover to the left to remove the dome cover.*

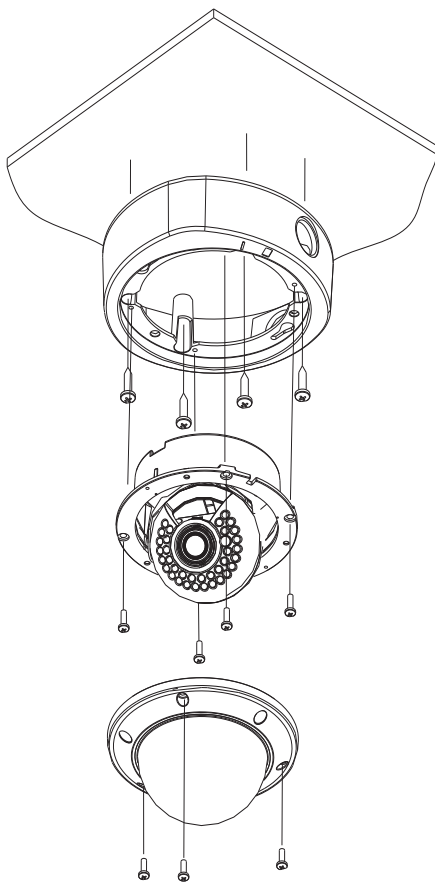
2) Flush Mount Installation:

- *Using four St4x30 screws, attach the flush mount base to a sturdy surface.*
- *Optional flush mount decorator plate. Model: VT-MD-FMP*

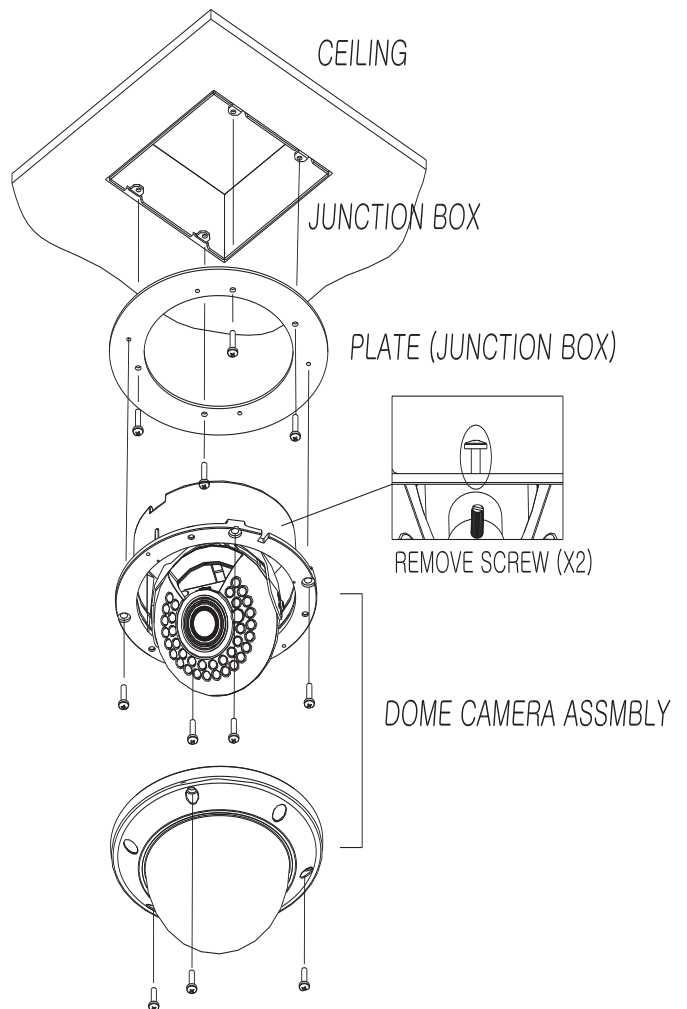
3) Surface Mount Installation:

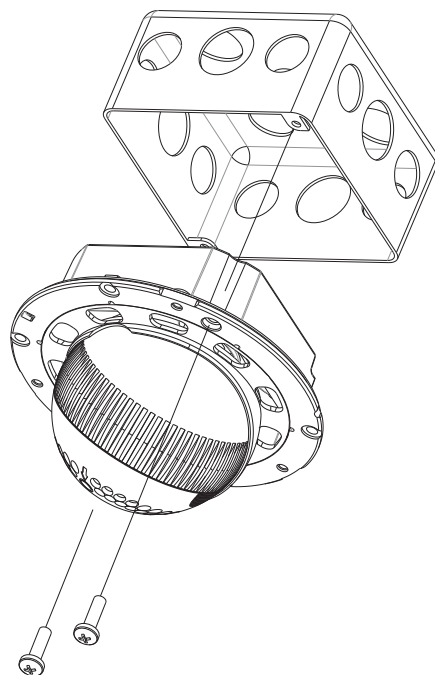
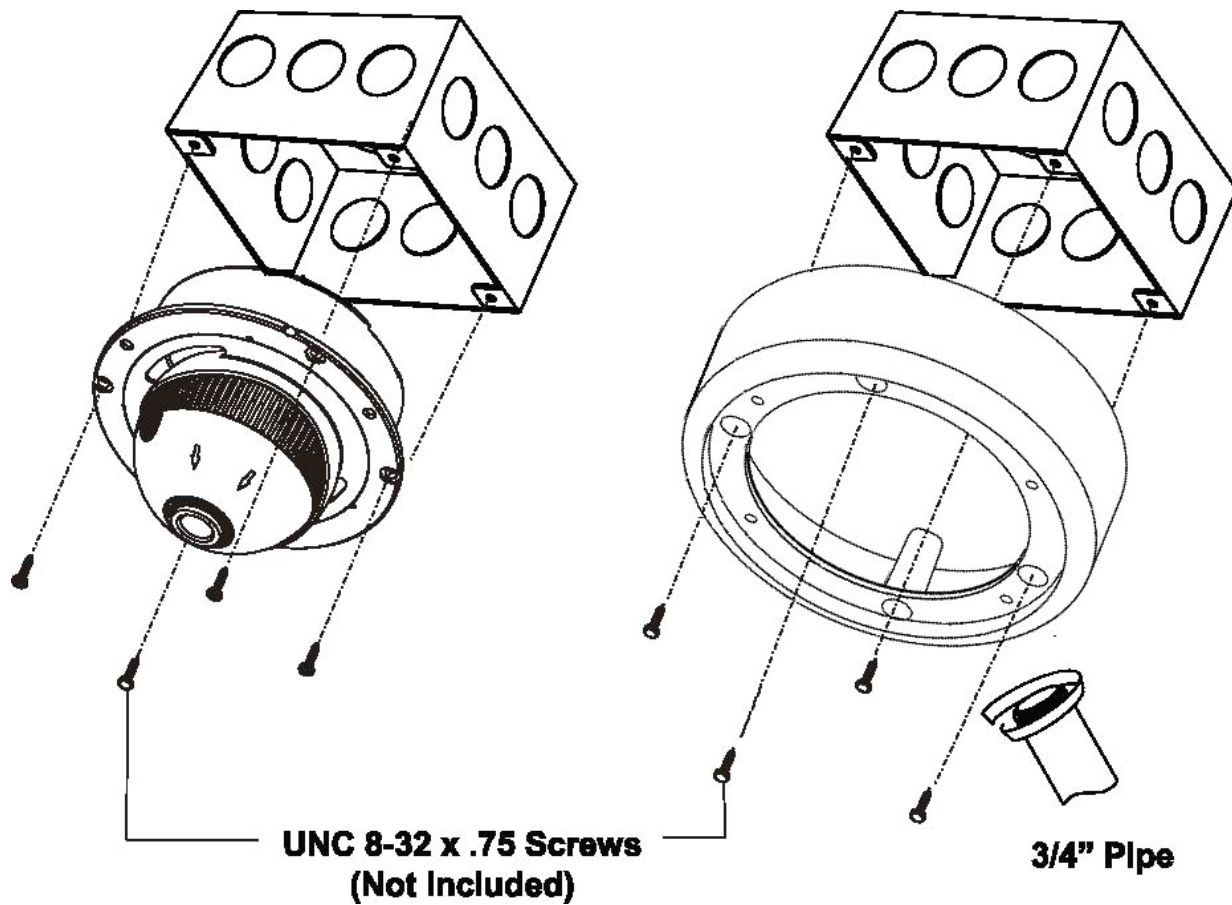
- *Drill pilot holes at the mounting location using the provided mounting template. Using four St4x30 screws, mount the surface mount housing to a sturdy surface. Using four ST4x12 (Indoor) screws or M4x10 (Vandal-proof) screws, attach the flush mount base to the surface mount housing.*

SURFACE MOUNT

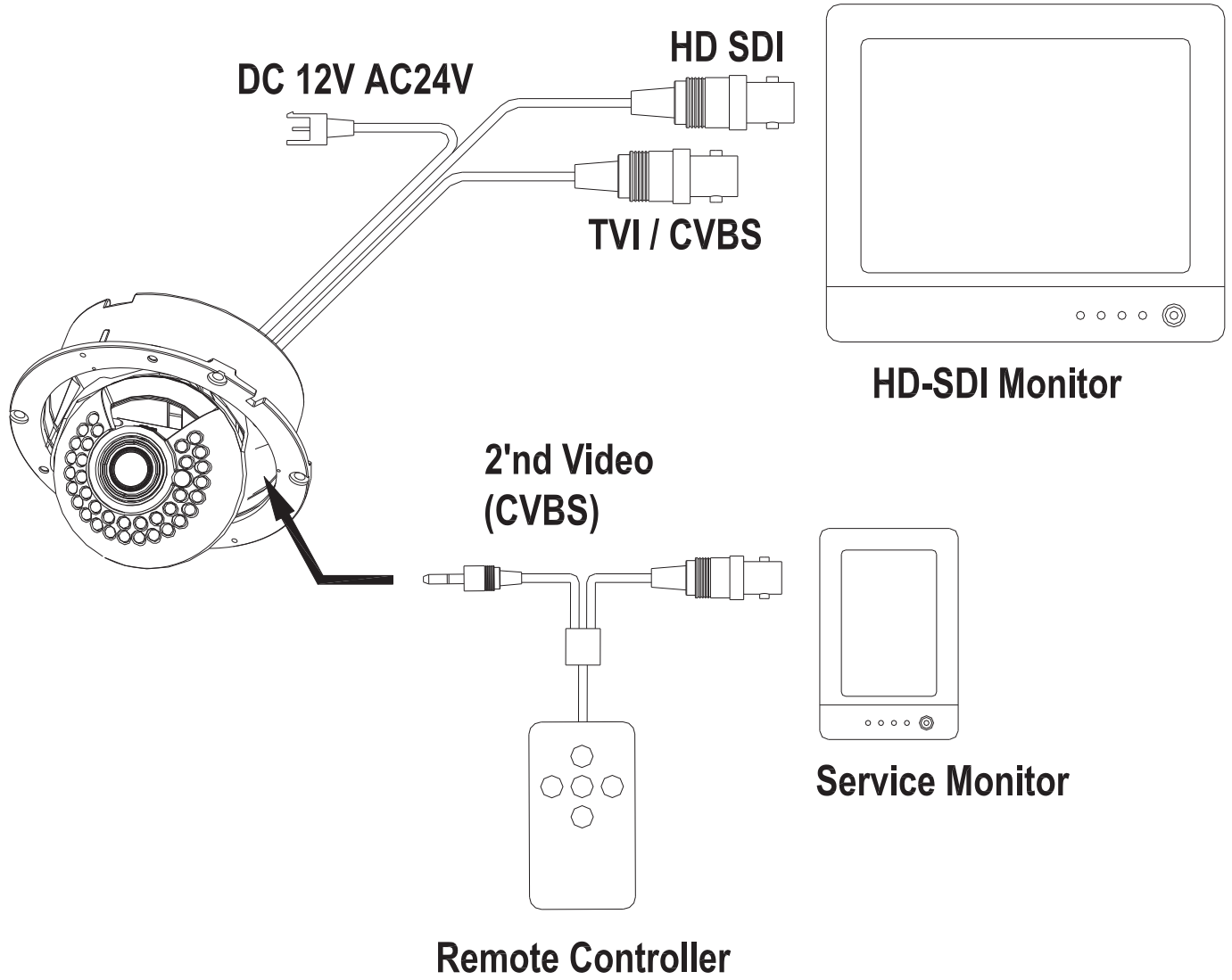


PLATE(JUNCTION BOX)





2.2 Camera Control & Setup

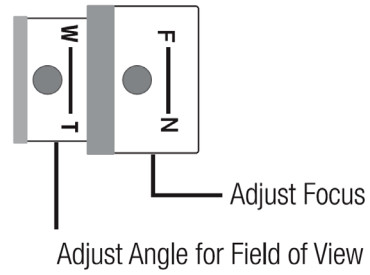


2.3 Varifocal, DC Auto Iris Lens Adjustments

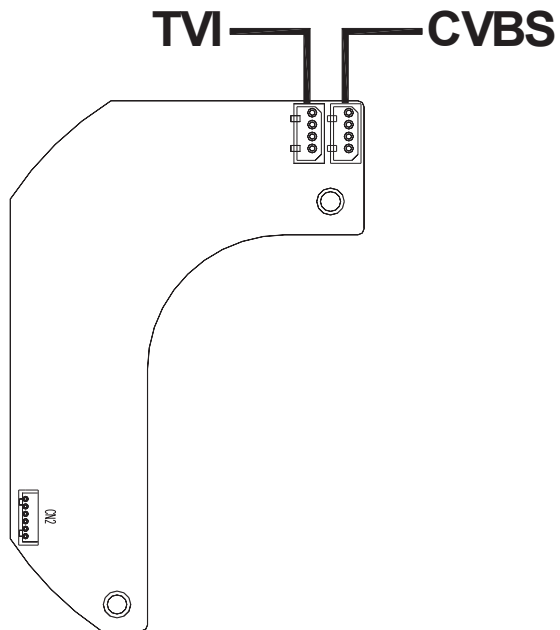
Loosen Zoom & Focus screws and make necessary adjustments as shown.

Field of View: Telephoto (T) to Wide (W)

Focus: Near (N) to Far (F)



2.4 VIDEO OUT



III. PROGRAM & OPERATION

Main Menu	Sub Menu	Descriptions
FOCUS ADJ		OFF / ON
EXPOSURE	LENS	DC / MANUAL
	BRIGHTNESS	10(0 ~ 20)
	SHUTTER	AUTO(OUTDOOR / INDOOR / DEBLUR)
		MANUAL(1/25(30), ---, 1/30,000)
		FLICKER
	SENS-UP	X2 / OFF, ---, X32
AGC	9(0 ~ 10)	
BACKLIGHT	OFF	
	HLC	10(0~20) / COLOR(8kinds)
	BLC	H(V)-POS(0~20) / H(V)-SIZE(0~20)
	WDR	WEIGHT(LOW / MIDDLE / HIGH)
DAY&NIGHT		AUTO / COLOR / B&W / EXTERN / CDS
WHITE BAL		AWB / AUTO / AUTOext / PRESET / MANUAL
DNR		OFF / LOW / MIDDLE / HIGH
ADJUST	COLOR GAIN	12(0 ~ 20)
	SHARNPESS	5(0 ~ 10)
	GAMMA	0.5(0.45~0.7)
	MIRROR	OFF / ON
	FLIP	OFF / ON
	D-ZOOM	1.0X(1.0X ~ 16.0X)
	ACE	OFF / LOW / MIDDLE / HIGH
	DEFOG	OFF / ON(MODE setting, LEVEL setting)
	SHADING	WEIGHT(100% ~ 0%)
	PRIVACY	2 Kinds : BOX(16ea), POLYGON(8ea)
MOTION	OFF	
	ON	DET WINDOW(4ea)
		SENSITIVITY(5(0~10))
		MOTION OSD
		TEXT ALARM
		SIGNAL OUT
SYSTEM	COM.	CAM ID / BAUDRATE
	IMAGE RANGE	FULL / COMP / USER
	TVI OFFSET	OFF / ON
	EXSDI	OFF / ON
	FRAME RATE	1080P(25_30) / 720(25_30) / 720(50_60)
	REQ	50HZ / 60HZ
	COLOR BAR	OFF / ON
	LANGUAGE	5kinds (ENG / CHN /CHN(S) / JPN / KOR)
	CAM TITLE	
	RESET	



Main Menu

MENU	
FOCUS ADJ	OFF
EXPOSURE	
BACKLIGHT	OFF
DAY&NIGHT	EXT
WHITE BAL	
DNR	MIDDLE
ADJUST	
MOTION	OFF
SYSTEM	
EXIT	

3.1 FOCUS ADJ

Focus ADJ displays the input data from the FA Detector Mode in a Graphic Bar form. This function provides convenience to the user by allowing a more accurate focusing by utilizing a bar graph, there are 3 bars to adjust by Left, Center and Right. The left bar is for low contrast areas, the center is mid contrast and the Right is for high contrast areas. Adjust to the highest level possible without any Green showing in the bar graph

3.2 EXPOSURE

EXPOSURE	
LENS	DC
BRIGHTNESS	10 
SHUTTER	AUTO
SENS-UP	X2
AGC	9 
RETURN	

3.2.1 LENS

Using this function, you can control the screen brightness

DC : Select Auto Iris Lens

MANUAL : The shutter does not automatically move but is fixed to the maximum in this mode.

3.2.2 BRIGHTNESS

Adjusts the video brightness.(0~20)

3.2.3 SHUTTER

AUTO : Select this mode to control the shutter speed automatically.

Shutter speed is automatically controlled depending on the brightness of the screen.
(OUTDOOR / INDOOR / DEBLUR)

MANUAL : You can select one of 12 options.

1/30(25, 1/60(50), 1/120(100), 1/250, 1/700, 1/1000, 1/1600, 1/2500, 1/5000,
1/7000, 1/10000, 1/30000

FLICKER : Select this when you experience picture flicker, this happen when there is a clash with the installed lighting frequency.

3.2.4 SENS-UP

When it is night of dark, the camera automatically detects the light level and maintains a clear picture. (OFF, X2, X4, X8, X16, X32)

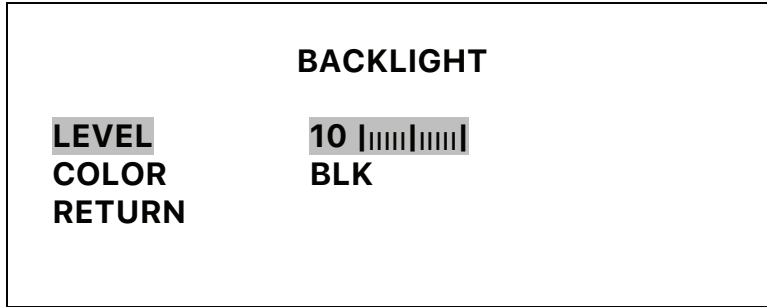
3.2.5 AGC

The Higher the gain level, the brighter the screen but the higher the noise(0~9).

3.3 BACKLIGHT

Enable to directly compensate backlight in a desired area from a picture, and to view the area more clearly.

3.3.1 HLC

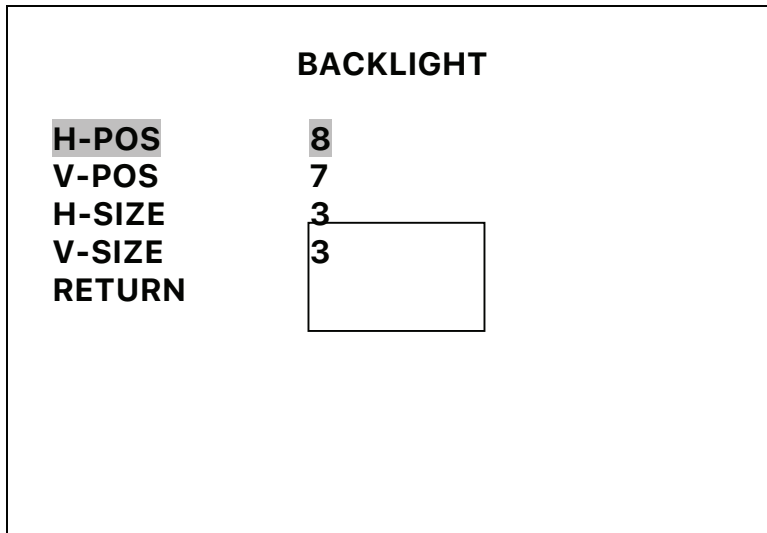


This function masks strong light to minimize white out due to over exposure and preserve much of the on-screen details when the camera sees a strong light source.

LEVEL : 0 ~ 20

COLOR : BLACK, WHITE, YELLOW, CYAN, GREEN, MAGENTA, RED, BLUE

3.3.2 BLC



Backlight

H-POS : 0 ~ 20

V-POS : 0 ~ 20

H-SIZE : 0 ~ 20

V-SIZE : 0 ~ 20

compensation

3.3.3 WDR



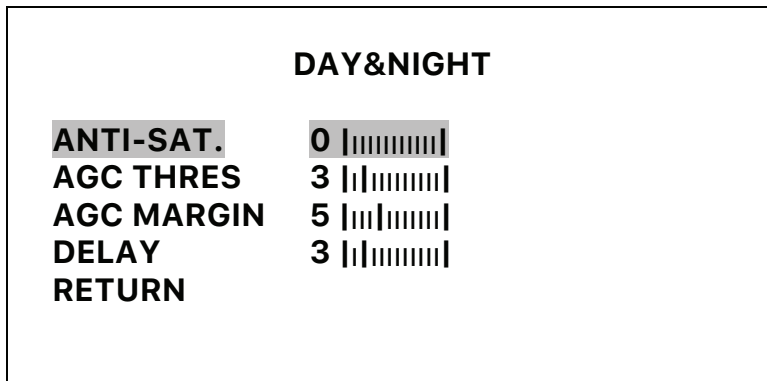
Wide Dynamic
WEIGHT : LOW, MIDDLE, HIGH
No support for CVBS.

Range.

3.4 DAY&NIGHT

3.4.1 AUTO

Optimized for standard cameras without IR



3.4.2 COLOR

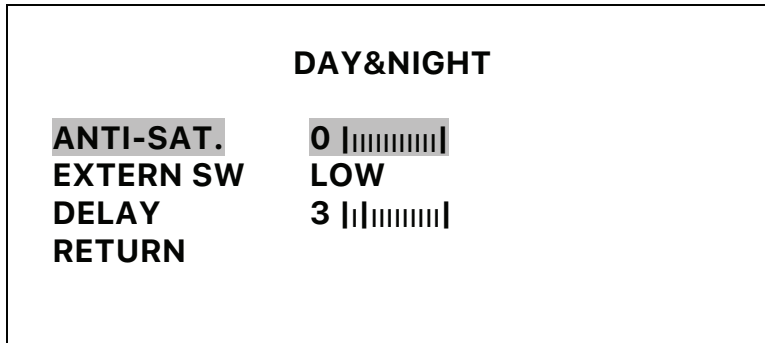
The picture is always displayed in color.

3.4.3 B&W

The picture is always displayed in black and white.



3.4.4 EXT.



Optimized for
Anti Saturation

IR Cameras

This function automatically controls the brightness for saturated object from the IR light. It prevents saturation and expands dynamic range. Also saturation level can be controlled.

3.5 WHITE BAL

Ability to set the WHITE BALANCE mode.

3.5.1 AUTO



Automatically tracks the changes of color temperature and continuously adjusts the white balance.

3.5.2 AUTOext

AUTOext is used in larger color map than AUTO mode.

3.5.3 PRESET

To find the optimal luminance level for the current environment, point the camera towards a sheet of white paper and press the Function Setup switch. If the environment changes, readjust it.

ADJUST	
COLOR GAIN	12 
SHARPNESS	5 
GAMMA	0.5
MIRROR	OFF
FLIP	OFF
D-ZOOM	1.0X
ACE	OFF
DEFOG	OFF
SHADING	OFF
PRAVACY	
RETURN	

3.7.1 COLOR GAIN

The setting range is 0 ~ 20. The smaller the setting value the smaller the color gain gets and the image will lose most of the color.

3.7.2 SHARPNESS

Select a mode to adjust the image's sharpness. Increase or decrease the level. Too high of Sharpness more noise will appear in image. value.(0 ~ 20)

3.7.3 GAMMA

The setting range is 0.45 ~ 0.7. The closer to 0.7 the setting is, the darker it gets.

3.7.4 MIRROR

Flip an image horizontally.

3.7.5 FLIP

Flip an image vertically.

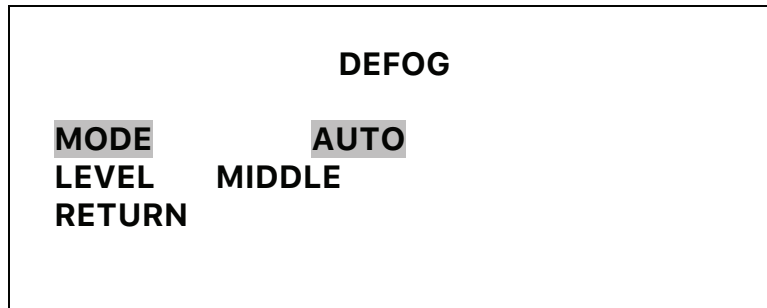
3.7.6 D-ZOOM

You can use a digital zoom of x1 ~ x16.

3.7.7 ACE

This function is a local adaptive contrast enhancement. It uses a histogram analysis and tone mapping method in pixels domain.

3.7.8 DEFOG



You can use the defog mode to allow the camera to automatically detect the fog density of the scene and display a clear image despite smog, or general poor visibility.

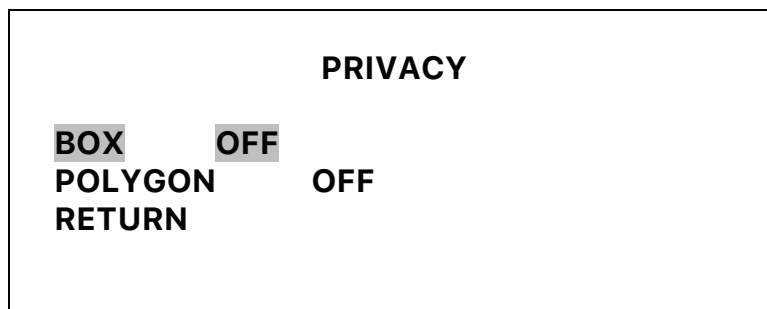
AUTO : Adjust the level automatically.

MANUAL : Depending on the defog level set by the user, adjust the clarity of image.(LOW, MIDDLE, HIGH)

3.7.9 SHADING

It compensates for the dark area created by the outline of the lens. Compensation uses 2D gain table. User can control 0 ~ 100% compensation rate according to shading weight.

3.7.10 PRIVACY



Mask an area you want to hide on the screen.

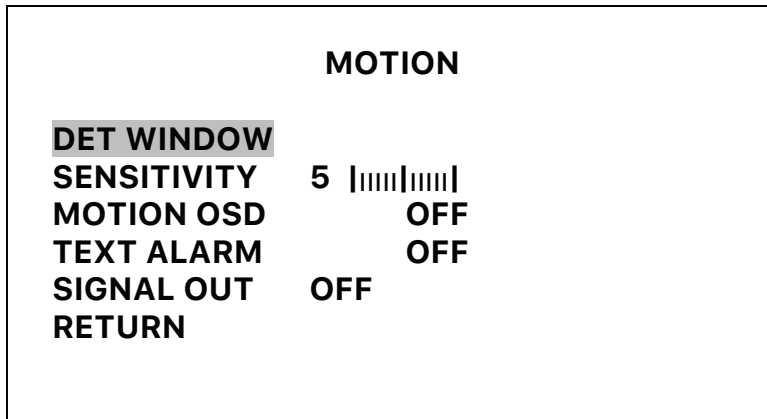
BOX		
ZONE NUM	0	
ZONE DISPLAY		ON
H-POS	12	
V-POS	2	
H-SIZE	3	
V-SIZE	3	
CB LEVEL	10	
CR LEVEL	10	
TRANS	2	
RETURN		

POLYGON		
ZONE NUM	0	
ZONE DISPLAY		ON
POS0-X	80	
POS0-Y	5	
POS1-X	88	
POS1-Y	5	
POS2-X	88	
POS2-Y	13	
POS3-X	80	
POS3-Y	13	
CB LEVEL	10	
CR LEVEL	10	
TRANS	2	
RETURN		

ZONE NUM :
up to 16(8 for polygon) PRIVACY areas.
ZONE DISPLAY : ON/OFF
H(V)-POS, H(V)-SIZE, POS0(1,2,3)-X(Y) : Adjust the size and position or the selected area.
CB(CR) LEVEL : Determine area color.
TRANS : Adds or removes transparency from the masking area.

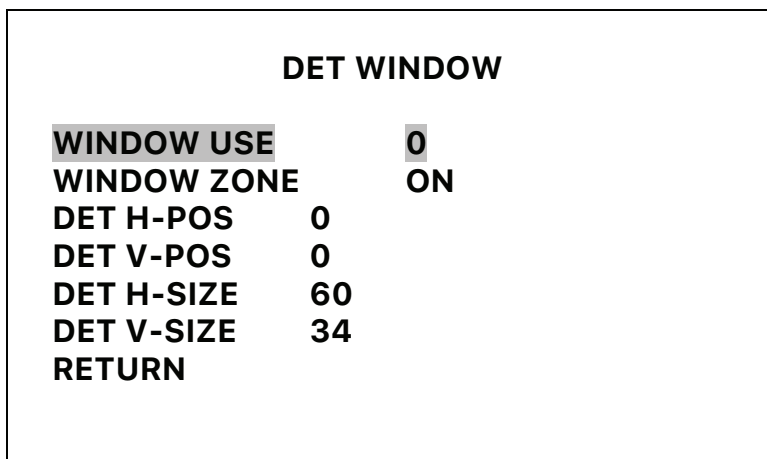
You can select

3.8 MOTION



This product generates signals each time an object movement is detected in the four areas of the screen so efficient monitoring can be achieved.

3.8.1 DET WINDOW



WINDOW USE : You can select up to 4 MOTION areas.
 WINDOW ZONE : ON/OFF
 DET H(V)- POS(SIZE) : Adjust the size and position or the selected area.

3.8.2 SENSITIVITY

Set the sensitivity of the motion detection. When you adjust to a higher level, the more sensitive.

3.8.3 MOTION OSD

If an object moves in an area set by the user, it will be displayed on the screen as a box.

3.8.4 TEXT ALARM

If an object moves in an area set by the user, it will be displayed on the screen as a message.

3.8.5 SIGNAL OUT

Not supported.

3.9 SYSTEM

SYSTEM	
COM.	
IMAGE RANGE	FULL
TVI OFFSET	OFF
EXSDI	OFF
FRAME RATE	1080_30p
FREQ	60HZ
COLOR BAR	OFF
LANGUAGE	ENG
CAM TITLE	OFF
RESET	ON
RETURN	

3.9.1 COM.

	COM.
CAM ID	1
BAUDRATE	9600
RETURN	

Not supported.

3.9.2 IMAGE RANGE

This is Digital output data scale mode for adjusting the black level.

Full : full digital data

COMP : scaling down mode

USER : user setting

3.9.3 TVI OFFSET

If you use HD-TVI, you should change TVI OFFSET to ON.

3.9.4 EXSDI

If you use EX-SDI, you should change EXSDI to ON.

3.9.5 FRAME RATE

Indicates the number of fps(frame per second) available for the video stream configuration.(1080, 720)

3.9.6 FREQ

Select depending on NTSC or PAL.(60Hz, 50Hz)

3.9.7 COLOR BAR

Color bar pattern output.

3.9.8 LANGUAGE

The camera's OSD is complimented by 5 languages.(English, Chinese, Chinese(s), Japanese, Korean)

3.9.9 CAM TITLE

This function allows the users to set the title of camera as well as the usage of on screen display of the title.

3.9.10 RESET

Reset camera to factory settings.

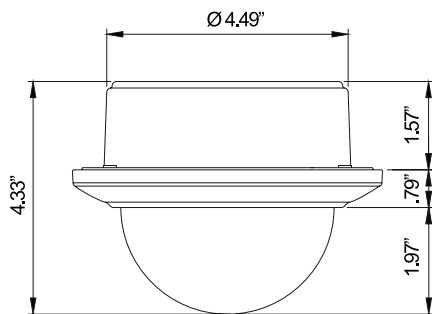
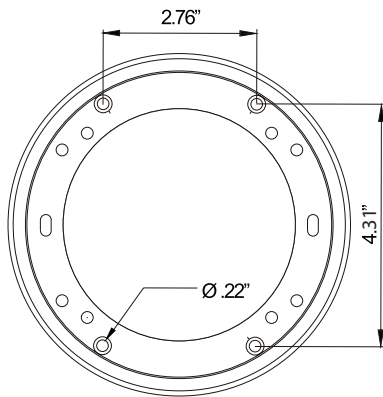
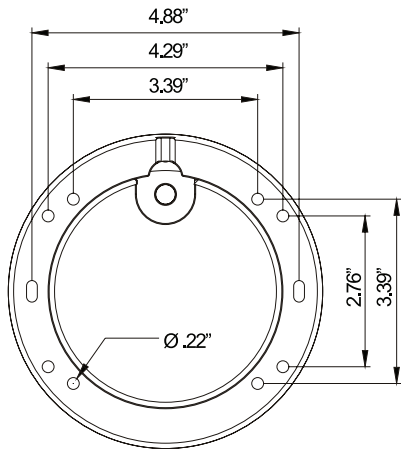
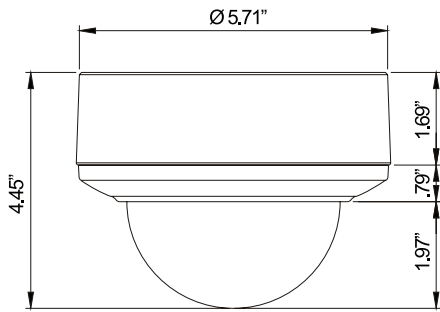
APPENDIX A — SPECIFICATIONS

Detailed Specifications	VTD-M2HET2812	VTD-M2RHET2812
Image Sensor	Sony® 1/2.8" STARVIS CMOS Image Sensor	
Video Output	EX/HD-SDI / TVI / 960H	
Resolution	2.1 MegaPixel (1920p x 1080p)	
Effective Pixels	1920(H) x 1080(V)	
Lens Type	MegaPixel IR Corrected 2.8-12mm Varifocal	
Electronic Iris	1/60 ~ 1/100,000sec	
DAY / NIGHT	Mechanical IR Cut Filter (True Day/Night)	
Sensitivity	0.15 lux (Color) / 0.03 lux (B/W)	0.15 lux (Color) / 0.03 lux (B/W) / 0 lux (IR ON)
Dynamic Intensity Smart IR LEDs	N/A	35 850nm IR LEDs w/120' Range
WDR	YES	
DNR	XD-DNR (2D+3D DNR)	
Motion Detection	4 Programmable Zones	
Privacy Mask	16 Box Zones / 8 Polygon Zones	
White Balance	ATW / PUSH / USER1 / USER2 / MANUAL / PUSH LOCK	
FLIP	H-Flip, V-Flip, H/V Flip	
Advanced OSD Functions	Defog, BLC/HLC, Dynamic IR, Privacy Masking, Motion Detection, Flip, LSC (Lens Shade Compensation)	
Digital Zoom	Up to X16 Digital Zoom	
Remote Control	Wired Remote Included	
Input Voltage	12VDC / 24VAC (Dual Voltage)	
Power Consumption (12VDC)		
Power Consumption (24VAC)	220 mA	220mA (IR OFF) / 480mA (IR ON)
Operating Conditions	110 mA	14°-122°F (-10°-50°C) < 80% RH (IR OFF) / 240mA (IR ON)
Weight	1lb / .46Kg	
Dimensions (H x Dia.)	4.45" x 5.71" (113mm x 145mm)	

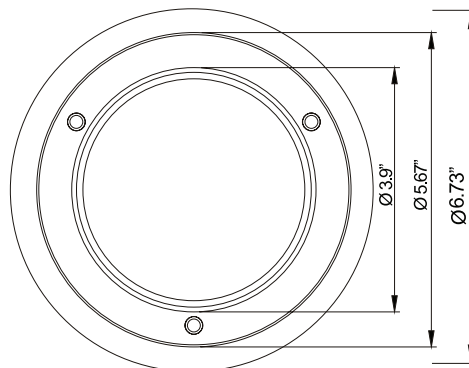
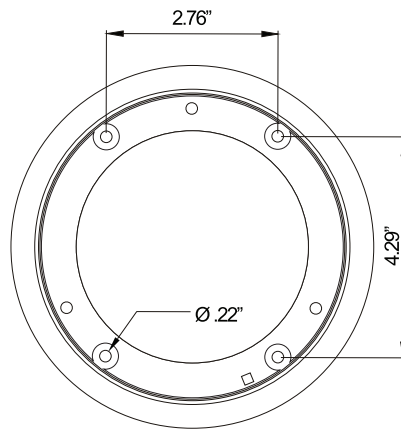
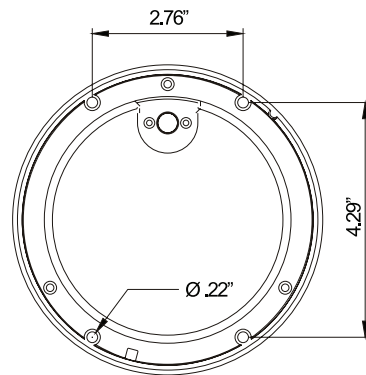
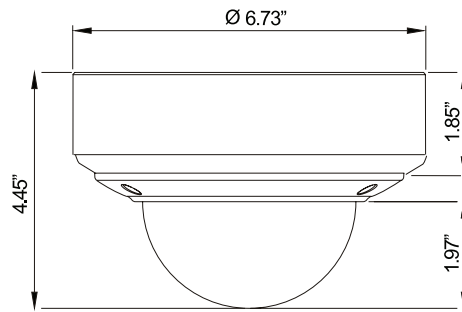
Detailed Specifications	VTD-MV2HET2812	VTD-MV2RHET2812
Image Sensor	Sony® 1/2.8" STARVIS CMOS Image Sensor	
Video Output	EX/HD-SDI / TVI / 960H	
Resolution	2.1 MegaPixel (1920p x 1080p)	
Effective Pixels	1920(H) x 1080(V)	
Lens Type	MegaPixel IR Corrected 2.8-12mm Varifocal	
Electronic Iris	1/60 ~ 1/100,000sec	
DAY / NIGHT	Mechanical IR Cut Filter (True Day/Night)	
Sensitivity	0.15 lux (Color) / 0.03 lux (B/W)	0.15 lux (Color) / 0.03 lux (B/W) / 0.03 lux (IR ON)
Dynamic Intensity Smart IR LEDs	N/A	35 850nm IR LEDs w/120' Range
WDR	YES	
DNR	XD-DNR (2D+3D DNR)	
Motion Detection	4 Programmable Zones	
Privacy Mask	16 Box Zones / 8 Polygon Zones	
White Balance	ATW / PUSH / USER1 / USER2 / MANUAL / PUSH LOCK	
FLIP	H-Flip, V-Flip, H/V Flip	
Advanced OSD Functions	Defog, BLC/HLC, Dynamic IR, Privacy Masking, Motion Detection, Flip, LSC (Lens Shade Compensation)	
Digital Zoom	Up to X16 Digital Zoom	
Remote Control	Wired Remote Included	
Water Resistance	IP-68	
Input Voltage	12VDC / 24VAC (Dual Voltage)	
Power Consumption (12VDC)	220 mA	220mA (IR OFF) / 480mA (IR ON)
Power Consumption (24VAC)	110 mA	110mA (IR OFF) / 240mA (IR ON)
Operating Conditions	14°-122°F (-10°-50°C) < 80% RH	
Weight	2.3 lb / 1.04Kg	
Dimensions (H x Dia.)	4.45" x 6.73" (110mm x 170mm)	

APPENDIX B — DIMENSIONS

INDOOR DOMES



VANDAL DOMES



LIMITED LIABILITY WARRANTY

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.

The product must have been used only for its intended purpose, and not been subjected to damage by misuse, willful or accidental damage, caused by excessive voltage or lightning.

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

This guarantee does not affect your statutory rights.

Contact your local VITEK Reseller should servicing become necessary.

VITEK makes no warranty or guarantee whatsoever with respect to products sold or purchased through unauthorized sales channels. Warranty support is available only if product is purchased through a VITEK Authorized Reseller.



28492 CONSTELLATION ROAD VALENCIA, CA 91355
WWW.VITEKCCTV.COM

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