



VTC-T4B4HR5MD VTC-T4T3HR5MD VTC-T4B4HR8MD VTC-T4T3HR8MD

**5 and 8 Megapixel 4-in-1 HD-TVI/AHD/CVI/CVBS
Motorized Varifocal Bullet and Turret Cameras**



FEATURES

- 1/2.8" 5.69 / 8.51 Megapixel Sony® Starvis™* Progressive Scan CMOS Sensor
- 5MP Models: 20fps live view @ 2592 x 1944p
- 8MP Models: 15fps live view @ 3840 x 2160p
- True Day/Night by IR Cut Filter
- HD-TVI / HD-CVI / AHD / 960H CVBS Video Output (Selectable)
- Motorized 2.7~13.5mm MegaPixel IR Corrected Auto Focus Varifocal Lens
- 4 Integrated High Power Dynamic IR LEDs with up to 165' IR Range (VTC-T4B4HR5MD/8MD), 3 Integrated High Power Dynamic IR LEDs with up to 135' IR Range (VTC-T4T4HR5MD/8MD)
- XD-DNR (2D-DNR + 3D-DNR) Noise Reduction
- Double Shutter Wide Dynamic Range (WDR)
- 16:9 Video format
- IP66 Weather Resistance
- Supports Control over COAX (CoC)
- Over 1500' HD Video Transmission (Depending on cable characteristics and integrity)
- Optional Junction Box Mount Available for Cable Management (VT-TJB04A)
- 12VDC / 24VAC Dual Voltage Operation
- 3 Year Warranty

**Sony Starvis is a registered trademark of Sony*

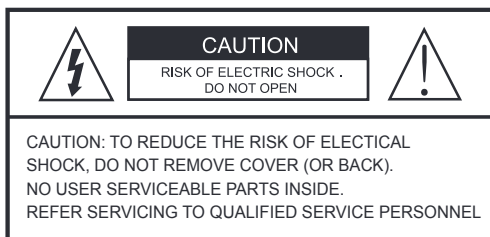


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Safety Precaution

- 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).

1. Notes

- Please use the specified power supply to connect the camera.
- Do not attempt to disassemble the camera; in order to prevent electric shock, do not remove screws or covers.
- There are no user-serviceable parts inside. Please contact the nearest service center as soon as possible if there is any failure.
- Avoid incorrect operation, shock vibration, and heavy pressure which can cause damage to product.
- Do not use corrosive detergent to clean main body of the camera. If necessary, please use soft dry cloth to wipe dirt; for hard contamination, use neutral detergent. Any cleanser for high grade furniture is applicable.
- Avoid aiming the camera directly towards extremely bright objects, such as the sun, as this may damage the image sensor.
- Please follow the instructions to install the camera.
- Do not operate it in case temperature, humidity and power supply are beyond the limited stipulations.
- Keep away from heat sources such as radiators, heat registers, stove, etc.
- Do not expose the product to the direct airflow from an air conditioner. Otherwise, it may cause moisture condensation inside due to temperature differences between the interior and exterior.

2. Product Introduction

2.1 Production Instructions

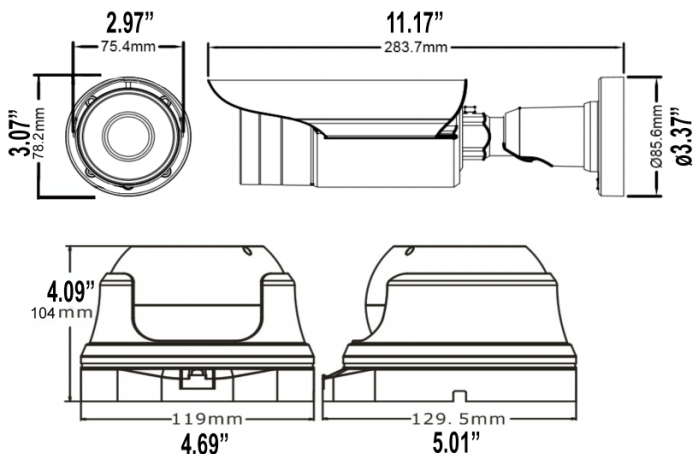
This series of cameras uses a CMOS image sensor with high performance, which provides mega pixel resolution and supports HD video. Transmission distance can reach more than 900' based on RG59 95% coaxial cable. This series can support TVI/CVI/AHD/CVBS output.

2.2 Product Features

1. 1/2.8" 5.69MP Sony® Starvis® CMOS / 1/2.8" 8.51 Sony® Starvis® CMOS
2. Full HD Resolution: 5MP 20fps / 8MP 15fps
3. WDR (Wide Dynamic Range)
4. XD-DNR (3D and 2D Digital Noise Reduction)
5. True Day / Night
6. Auto White Balance
7. Smart IR Function
8. DC IRIS
9. Low Power Consumption
10. Supports Control over COAX (CoC)

3. Product Structure

The followings are the dimensions for the bullet and turret cameras in this series:



4. OSD Menu tree

Main Menu	Secondary menu	
AE	BRIGHTNESS	0~100
	EXPOSURE MODE	GLOBAL
		BLC 0~7
	GAIN	HIGH, MIDDLE, LOW, OFF
AWB	MODE	PRO, GRAY WORLD
	RGAIN	0~100
	BGAIN	0~100
DAY/NIGHT	MODE	EXT, AUTO, COLOR, BW
IMAGE ENHANCE	CONTRAST	AUTO
		MANUAL 0~20
	SHARPNESS	AUTO
		MANUAL 0~20
	SATURATION	AUTO
		MANUAL 0~20
	3DNR	AUTO
VIDEO SETTING	HD	TVI, AHD, CVI, CVBS
	STANDARD	5MP, 4MP, 1080P
	VERSION	FX5.00.01
	APPLY&REBOOT	
LANGUAGE	English, Chinese (simple), Chinese (traditional), Russian, Spanish, French, Polish, Italian, Portuguese, Japanese, Korean	

LENADJ	L+L+R+R+C
RESET	
SAVE&EXIT	

5. Product Installation

5.1 Note

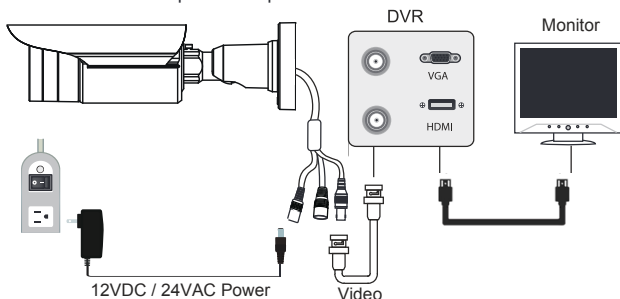
- 1) Make sure the unit is powered off before installation.
- 2) Make sure to only use specified power to prevent damage to the camera
- 3) Do not use in environment beyond the boundaries of the temperature and maintain good ventilation to prevent the risk of fire or electric shock.
- 4) The installation and maintenance of this product should be done by professionals only, please do not remove or modify the equipment in any way; Only use the required accessories of manufacturers. Problems caused by unauthorized repair are at your own risk.

5.2 Installation Method

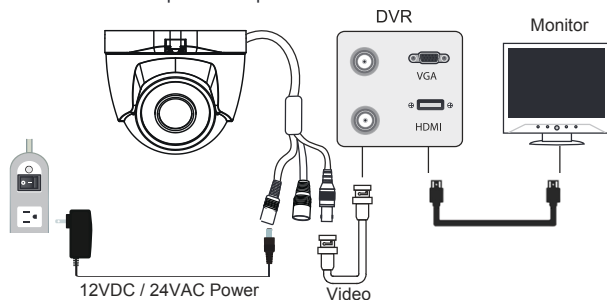
- 1) Disconnect power before installation.
- 2) Confirm proper 12VDC or 24VAC power supply is used to prevent damage to the camera.
- 3) Do not use in an environment beyond the boundaries of the specifications.

Power & Video Connections

Connect the HD-TVI Video or AHD/CVBS video connector to a BNC patch cable, then to a DVR. Next connect the power connector to a 12VDC or 24VAC power adaptor.



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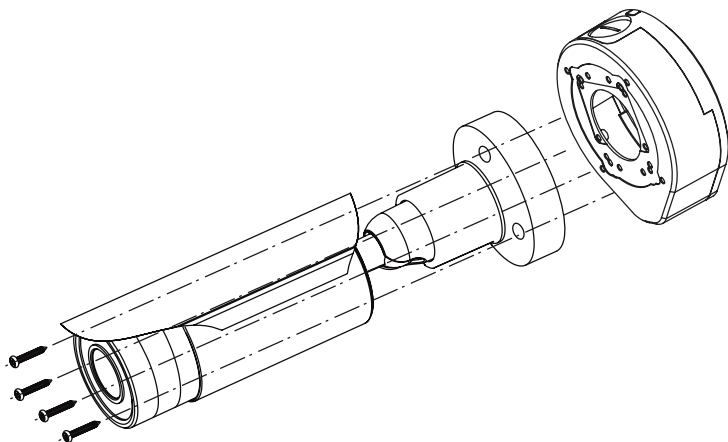
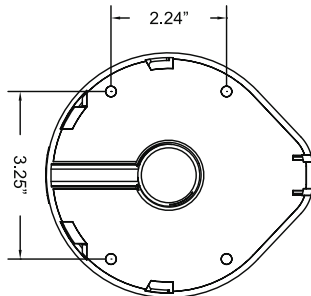
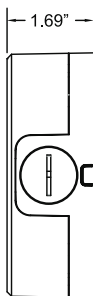
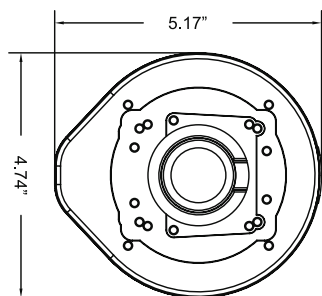
Video Output Mode Switch:

Select the desired video mode using the dip switches contained within the on-cable Output Mode Switch as follows:





VT-TJB04A
Optional Junction Box for Cable Management



Detailed Specifications - VTC-T4B4HR5MD

Image Sensor	1/2.8" 5.69 Megapixel Sony® Starvis™ Progressive Scan CMOS Sensor
Signal System	PAL/NTSC
Effective Pixels	2592 × 1944
Resolution / Video Output	Up to 5MP // TVI: 1080P@25fps, 1080P@30fps, 4MP@25fps, 4MP@30fps, 5MP@12.5fps, 5MP@20fps AHD: 1080P@25fps, 1080P@30fps, 4MP@25fps, 4MP@30fps, 5MP@12.5fps, 5MP@20fps CVI: 1080P@25fps, 1080P@30fps, 4MP@25fps, 4MP@30fps
Lens	Motorized 2.7~13.5mm MegaPixel IR Corrected Varifocal Lens
Day/Night	True Day/Night by ICR
Min. Illumination	0.001 Lux @ f2 (B/W) / 0.1Lux @ F2.0 (Color) / 0 Lux (IR ON)
IR LEDs / IR Distance	4x High Power Dynamic IR LEDs / 165'
DSS (Sens-Up)	OFF / X2 ~ X32
S/N Ratio	≥50dB (AGC Off)
WDR	Double Shutter Wide Dynamic Range (WDR)
Digital Noise Reduction (DNR)	XD-DNR (2D-DNR & 3D-DNR)
White Balance	Auto / Present / External / Manual
BLC	Adjustable
Defog	Adjustable
Privacy Mask	16 Programmable Areas
Motion Detection	4 Programmable Areas
Control over COAX (COC)	YES
Transmission Distance	Up to 1500' (Depending on cable characteristics & integrity)
Power Input	Dual Voltage: 12VDC / 24VAC
Power Consumption	<7.5W
Pwr Consum: 12VDC, 24VAC	600mA (IR ON) / 300mA (IR OFF), 300mA (IR ON) / 150mA (IR OFF)
Weather Resistance	IP66
Operation Conditions	14~122 / < 95% Humidity
Weight	31.04 oz. / 1.94 lbs. / 880g
Dimensions W × H × L	2.97" x 3.07" x 11.17" (75.4 x 78.2 x 283.7mm)



Detailed Specifications - VTC-T4T3HR5MD

Image Sensor	1/2.8" 5.69 Megapixel Sony® Starvis™ Progressive Scan CMOS Sensor
Signal System	PAL/NTSC
Effective Pixels	2592 × 1944
Resolution / Video Output	Up to 5MP // TVI: 1080P@25fps, 1080P@30fps, 4MP@25fps, 4MP@30fps, 5MP@12.5fps, 5MP@20fps AHD: 1080P@25fps, 1080P@30fps, 4MP@25fps, 4MP@30fps, 5MP@12.5fps, 5MP@20fps CVI: 1080P@25fps, 1080P@30fps, 4MP@25fps, 4MP@30fps
Lens	Motorized 2.7~13.5mm MegaPixel IR Corrected Varifocal Lens
Day/Night	True Day/Night by ICR
Min. Illumination	0.001 Lux @ f2 (B/W) / 0.1Lux @ F2.0 (Color) / 0 Lux (IR ON)
IR LEDs / IR Distance	3x High Power Dynamic IR LEDs / 135'
DSS (Sens-Up)	OFF / X2 ~ X32
S/N Ratio	≥50dB (AGC Off)
WDR	Double Shutter Wide Dynamic Range (WDR)
Digital Noise Reduction (DNR)	XD-DNR (2D-DNR & 3D-DNR)
White Balance	Auto / Present / External / Manual
BLC	Adjustable
Defog	Adjustable
Privacy Mask	16 Programmable Areas
Motion Detection	4 Programmable Areas
Control over COAX (COC)	YES
Transmission Distance	Up to 1500' (Depending on cable characteristics & integrity)
Power Input	Dual Voltage: 12VDC / 24VAC
Power Consumption	<6.5W
Pwr Consump: 12VDC, 24VAC	600mA (IR ON) / 300mA (IR OFF), 300mA (IR ON) / 150mA (IR OFF)
Weather Resistance	IP66
Operation Conditions	14 ~ 122 / < 95% Humidity
Weight	17.99oz / 1.12lb / 510g
Dimensions H × W × D	4.09" x 4.69" x 5.01" (104 x 119 x 129.5mm)



Detailed Specifications - VTC-T4B4HR8MD

Image Sensor	1/2.8" 8.51 Megapixel Sony® Starvis™ Progressive Scan CMOS Sensor
Signal System	PAL/NTSC
Effective Pixels	3840 × 2160
Resolution / Video Output	Up to 8MP // TVI: 4MP@25fps, 4MP@30fps, 5MP@20fps, 8MP@12-5fps, 8MP@15fps, AHD: 4MP@30fps, 5MP@20fps, 8MP@15fps CVI: 4MP@25fps, 4MP@30fps, 8MP@15fps
Lens	Motorized 2.7 ~ 13.5mm MegaPixel IR Corrected Varifocal Lens
Day/Night	True Day/Night by ICR
Min. Illumination	0.001 Lux @ f2 (B/W) / 0.1Lux @ F2.0 (Color) / 0 Lux (IR ON)
IR LEDs / 165'	4x High Power Dynamic IR LEDs / 165'
DSS (Sens-Up)	OFF / X2 ~ X32
S/N Ratio	≥50dB (AGC Off)
WDR	Double Shutter Wide Dynamic Range (WDR)
Digital Noise Reduction (DNR)	XD-DNR (2D-DNR & 3D-DNR)
White Balance	Auto / Present / External / Manual
BLC	Adjustable
Defog	Adjustable
Privacy Mask	16 Programmable Areas
Motion Detection	4 Programmable Areas
Control over COAX (COC)	YES
Transmission Distance	Up to 1500' (Depending on cable characteristics & integrity)
Power Input	Dual Voltage: 12VDC / 24VAC
Power Consumption	<7.5W
Pwr Consump: 12VDC, 24VAC	600mA (IR ON) / 300mA (IR OFF), 300mA (IR ON) / 150mA (IR OFF)
Weather Resistance	IP66
Operation Conditions	14 ~ 122 / < 95% Humidity
Weight	31.04 oz. / 1.94 lbs. / 880g
Dimensions W × H × L	2.97" x 3.07" x 11.17" (75.4 x 78.2 x 283.7mm)



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Image Sensor	1/2.8" 8.51 Megapixel Sony® Starvis™ Progressive Scan CMOS Sensor
Signal System	PAL/NTSC
Effective Pixels	3840 × 2160
Resolution / Video Output	Up to 8MP // TVI: 4MP@25fps, 4MP@30fps, 5MP@20fps, 8MP@12-5fps, 8MP@15fps, AHD: 4MP@30fps, 5MP@20fps, 8MP@15fps CVI: 4MP@25fps, 4MP@30fps, 8MP@15fps
Lens	Motorized 2.8~12mm MegaPixel IR Corrected Varifocal Lens
Day/Night	True Day/Night by ICR
Min. Illumination	0.001 Lux @ f2 (B/W) / 0.1Lux @ F2.0 (Color) / 0 Lux (IR ON)
IR LEDs / IR Distance	3x High Power Dynamic IR LEDs / 135'
DSS (Sens-Up)	OFF / X2 ~ X32
S/N Ratio	≥50dB (AGC Off)
WDR	Double Shutter Wide Dynamic Range (WDR)
Digital Noise Reduction (DNR)	XD-DNR (2D-DNR & 3D-DNR)
White Balance	Auto / Present / External / Manual
BLC	Adjustable
Defog	Adjustable
Privacy Mask	16 Programmable Areas
Motion Detection	4 Programmable Areas
Control over COAX (COC)	YES
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Power Input	Dual Voltage: 12VDC / 24VAC
Pwr Consump: 12VDC, 24VAC	600mA (IR ON) / 300mA (IR OFF), 300mA (IR ON) / 150mA (IR OFF)
Weather Resistance	IP66
Operation Conditions	14~122 / < 95% Humidity
Weight	17.99oz / 1.12lb / 510g
Dimensions W × H × L	4.09" x 4.69" x 5.01" (104 x 119 x 129.5mm)



NOTES

LIMITED PRODUCT 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.



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