



VTC-IRM5H-2713
VTC-IRM5H-550
Virtuoso Series 2 MegaPixel
Multi-Format Auto Focus
WDR Bullet Camera

QUICK START GUIDE



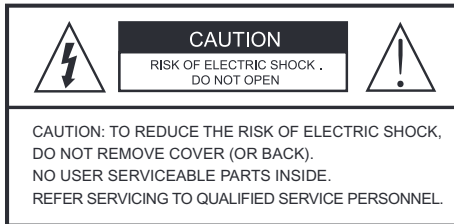
FEATURES:

- 1/2.8" 2 MegaPixel Sony® STARVIS CMOS Sensor
- 2 MegaPixel Coax Based Camera (1920 × 1080 @ 30/25fps)
- 5 × 850nm High power LEDs with up to 130' IR Range
- Video output EX-SDI1.0,2.0 / HD-SDI / TVI mode / AHD mode / CVI mode or CVBS Selectable
- f=2.7~13.5mm F 1.6, 5 MegaPixel Motorized Zoom Lens [VTC-IRM5H-2713]
- f=5.0~50mm F 1.6, 5 MegaPixel Motorized Zoom Lens [VTC-IRM5H-550]
- Automatically Removable IR Cut Filter with Dual Filter Switch
- True WDR (Wide Dynamic Range) @30/25fps
- ROI (Region of Interest) WDR
- Improved Noise Reduction with XD-DNR
- Motion Detection, Privacy Mask, DeFog, Sens-up(~x32), ROI-WDR, D-WDR, Sharpness, DeBlur, Mirror / Flip, Backlight / Highlight Compensation, Smart IR, Anti-Saturation, Title Set
- OSD Menu & Video Sub-out for Easy Installation and Maintenance
- 1500' HD-Analog Transmission Distance over Coax (Depending on Cable Characteristics and Integrity)
- COC [Control over Coax] Through HD-TVI (Pelco-C®) or AHD
- One-Touch 3-Axis Locking Bracket, Easy Installation Pad
- AC24V/DC12V
- IP68, Aluminum Cast, Dual window, One-Touch 3-Axis Locking Bracket, Easy Installation Pad
- 3-Year Warranty

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COAX

Safety Precaution

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.

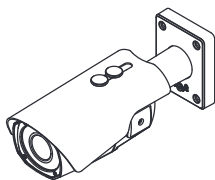
Mains power quality should be that of a typical commercial environment. If the user of the model requires continued operation during power mains interruptions, it is recommended that the model be powered from an uninterruptible power supply (UPS) or a battery.

Safety Precaution

NOTICE

- The images used in this instruction manual are processed to help comprehension and may differ from actual video of the camera.
- Avoid installing areas where has shock or vibration which results in the problems.
- Pay attention to safety when laying the connection cable and observe that the cable is not subjected to heavy loads, kinks or damage and no moisture can get in.
- 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 destruction.
- The camera should never be operated in water.

Composition



Camera

Plastic Anchor:
6 x 30mm (4pcs)



Mounting Screw:
4 x 30mm (4pcs)



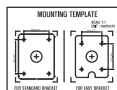
Assembly Screw:
4 x 15mm (4pcs)



Torque Wrench:
3mm (1pc)



Operating
Instruction



Mounting
Template

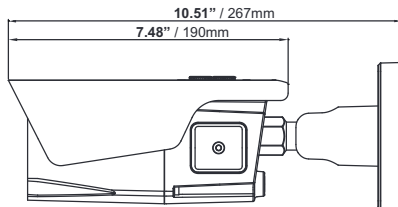
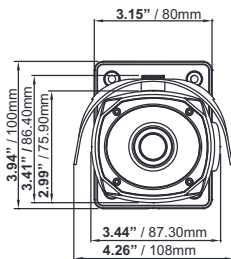


Easy
Bracket

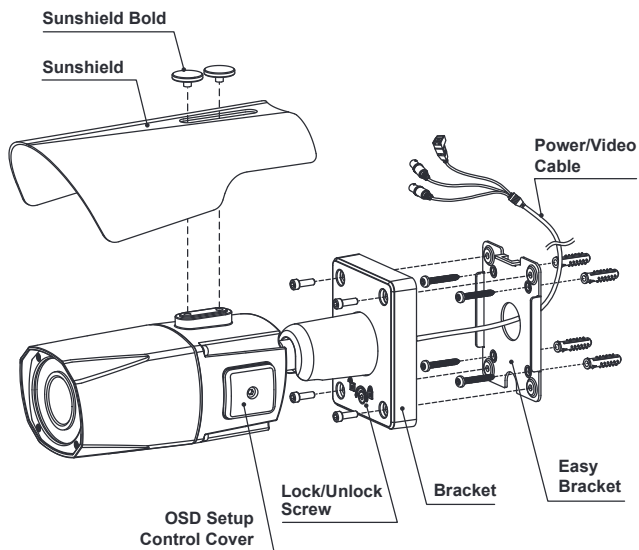


Video Sub-out
Cable (1pc)

Dimensions

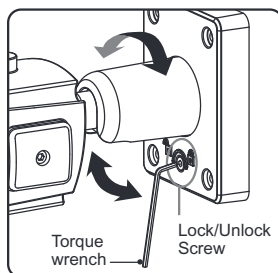


Part Names



CAUTION

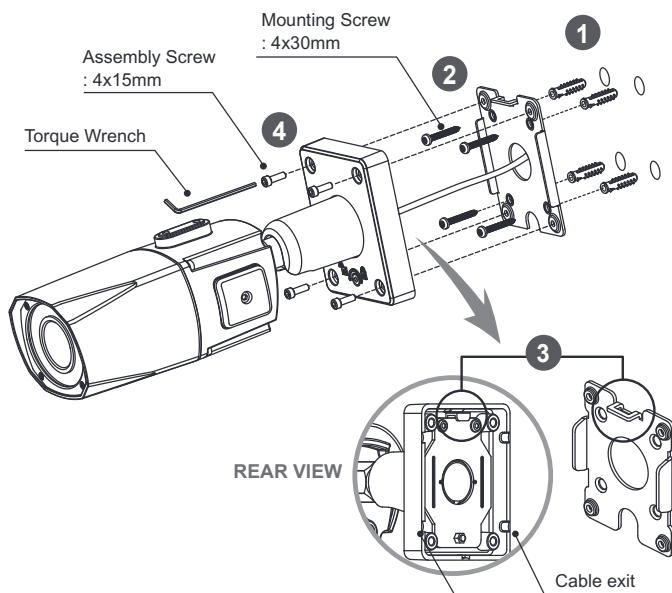
- Extreme care should be taken NOT to scratch the window in front of lens.
- Care should be taken the cable is NOT to be damaged, kinked or exposed in the hazardous area.
- Do not expose the camera directly to a strong light source such as the sun or spot light.



■ Adjustment of viewing angle with a bracket

Installation Instructions

1. Locate the mounting template at the installation position and drill the ceiling or wall if needed. (*The easy bracket can not be installed on the ceiling)
2. Place the easy bracket on pre-drilled position and fix it through using mounting screws (4x30mm). Skip this step when an easy bracket is not installed.
3. Route the Power cable to the connecting place.
Hook up the camera bracket with the easy bracket as illustrated below.
4. Fix the camera bracket through using assembly screws (4x15mm).
5. Set the camera's viewing angle.
6. Put the sunshield to the camera unit and tighten the sunshield-bolts.



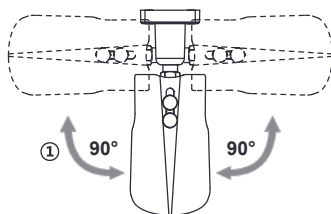
Installation Instructions

Pan & Tilt adjustments

- Unlock the screw on the camera bracket through using the torque wrench supplied
- Set the camera's viewing angle then lock the screw on the bracket.

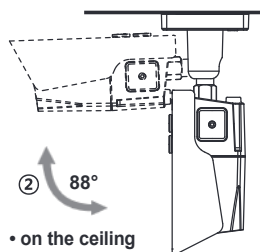
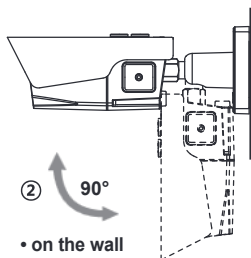
1) Pan limit:

Pan is limited to $\pm 90^\circ$.



2) Tilt limit:

Tilt is limited to $0^\circ (2^\circ)$ min $\sim 90^\circ$ max.
for wall(ceiling) installation respectively
with reference to the wall(ceiling) when
the inclination of camera module is 0° ,
that is, the image is aligned horizontally.



3) Inclination limit

(Horizontal image alignment):
Inclination limited to $\pm 90^\circ$ max.



Installation Instructions

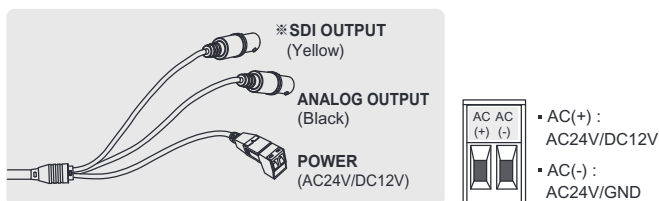
Installation and commissioning Instructions

- Make sure the power is removed before the installation.
- Follow the order for applying power.

First, connect the low voltage (AC24V or DC12V), then plug the AC adapter to AC outlets to avoid an improper reset from power jitter and a damage from the surge voltage when no load.

Power Supply Connections

Camera can work with either AC24V or DC12V, dual voltage power. Primary and secondary grounds are completely isolated to avoid the possible ground-loop problems



- ※ Please use the cable as provided with camera. If camera cable is cut and re-wired, the transmission distance of video can be reduced. Especially SDI cable should not be cut because it requires detailed wiring job and affects the transmission distance.

NOTES

DETAILED SPECIFICATIONS

Imaging Sensor	1/2.8" 2 MegaPixel Sony STARVIS CMOS® Sensor
Effective Pixels	1920(H) x 1080(V) x 30p
Scan Frequency	30Hz(V), 22.5KHz(H) Progressive
Video Format	HD: 16:9, 1080p@30fps / CVBS: 16:9 (NTSC)
Video Output	Digital: EX-SDI 1.0/ 2.0/ 2.1, HD-SDI, HD-Analog: TVI mode, AHD mode, SD-Analog: CVBS
Synchronization	Internal
Min. Illumination	Color: 0.08 Lux, B/W: 0.005 Lux (LED Off)
S/N Ratio	More than 50dB (AGC Off)
Lens	VTC-IR5H-2713 f=2.7~13.5mm F 1.6, 5MP Mtrzd Zoom Lens, VTC-IR5H-550 f=5.0~50mm F 1.6, 5MP Mtrzd Zoom Lens
IR LEDs / Range	5pcs x 850nm High power LEDs - 150'
Exposure	Brightness / Shutter / Sens-up / AGC
Focus	Auto / Zoom Push / Manual
Day / Night	True Day / Night by dual filter switch, EXT / AUTO / COLOR / B&W
White Balance	AUTO / AUTOext / MANUAL / PRESET
WDR	True WDR by Dual Scan Images at 30fps/25fps
ROI WDR	YES
DNR	XD-DNR (2D-DNR / 3D-DNR)
D-Zoom	N/A
Image Orientation	Mirror / Flip / Rotate / Normal
Special Features	POI (Point Of Interest) Zoom, Smart Motion Zoom, Preset Zoom, Home Position
Functions	ROI-WDR, D-WDR, Motion Detection, Privacy Mask, Defog, Sens-up(~x32), Sharpness, Mirror/Flip, BLC/HLC,
Ingress Protection	IP-68 Weather Resistance Rating
Remote Control	COC by HD-TVI (Pelco-C®) or AHD
OSD Language	English, Korean, Japanese, Chinese, German
Video Output	VBS 1Vp-p ± 10%, 75Ω
Installation Temp.	-4°F~122°F (-20°C ~ +50°C)
Installation Humidity	20%RH ~ 80%RH
Operating Temp.	-22°F~122°F (-30°C ~ +50°C)
Operating Humidity	20%RH ~ 80%RH
Power Input	AC24V/DC12V
Power Consumption (12VDC)	370mA (IR Off) / 750mA (IR On)
Power Consumption (24VAC)	185mA (IR Off) / 375mA (IR On)
Power Features	Circuit protection against faulty connection in power polarity, and isolated power supply protects against ground
Housing	Aluminum Cast, Dual window, One-Touch 3-Axis Locking Bracket, Easy Installation Pad
Dimensions	4.25" W x 3.94 H x 10.51 L (108 x 100 x 267mm)
Weight (w/ Bracket)	2.98lbs (1.35kg)

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***FOR FULL OPERATION AND SETUP
INSTRUCTIONS PLEASE REFER TO THE
COMPLETE MANUAL BY SCANNING
THE QR CODE BELOW:***



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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Version 1.0
June 2022