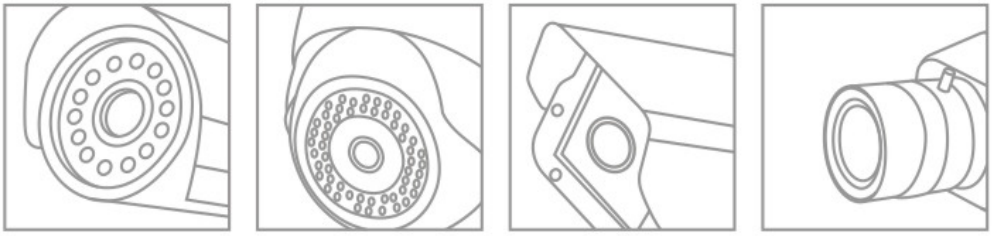
Analog HD Camera



USER MANUAL

5MP Analog HD Camera Series

XV5335 (V1.0)

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1 Notes

Read this manual carefully before use.

1)To reduce the risk of electric shock, don't turn on and maintain the machine by yourself, please consult a professional service person.

2)To prevent fire or shock hazard, use the power after safety certification, the input voltage, current, voltage polarity and operating temperature must meet the requirements of this camera.

3)Please note the operating temperature and environmental requirements of the camera, avoid too low or too high temperature. General operating temperature range of -10℃～+60℃(Fahrenheit temperature is 14℉～140℉). Avoid flooding and rain, minimize dust and moisture erosion, otherwise camera would be damaged.

4)Cameras in use should avoid direct sunlight, glare, otherwise the sensor will be damaged.

5)Do not touch the sensor surface, if any foreign objects exist, a cotton swab or lens paper can be used to wipe, if it is difficult to remove, a neutral detergent diluted with water would be useful. Do not use corrosive solution.

7)In order to make the camera work smoothly and obtain a satisfactory image, the power cord and video connection can not be too long, otherwise the increase of line loss will lead to the inadequate magnitude of the operating voltage of the camera or video signal Inadequate.

8)In order to prevent the camera from falling, please do not place the camera on an unstable bracket, base or other unstable objects. Otherwise it will lead to injury, at the same time, the camera will be damaged.

9)The camera cannot be placed near the radiator or heating resistor.

2 Product Introduction

2.1 Production Instruction

This series of cameras are adopted CMOS image sensor with high performance, which provides mega pixel resolution and supports HD video. Moreover, it supports monitoring signals coaxial transmission. Transmission distance can reach more than 300M based on 75-3 coaxial cable. The series can support CVI/TVI/AHD/ CVBS output as well as realize high speed, long distance and real time video transmission.

2.2 Product Feature

1. 1/2.8" 5.14MP SONY Starvis CMOS Sensor
2. Full HD Resolution: P: 5MP 12.5fps / N: 5MP 20fps
3. CVI TVI AHD CVBS format output
4. DNR(Digital Noise Reduction.3D)
5. Day & Night
6. Auto White Balance
7. Smart IR
8. Auto Lens(AF)
9. WDR(Wide Dynamic Range)
10. English、Chinese_simple、Chinese_traditional、Russian、Spanish、French、Polish、Italian、Portuguese、Japanese、Korea OSD MENU

3 Product Structure

The followings are the dimensions of some products. No further notice for the upgraded version.

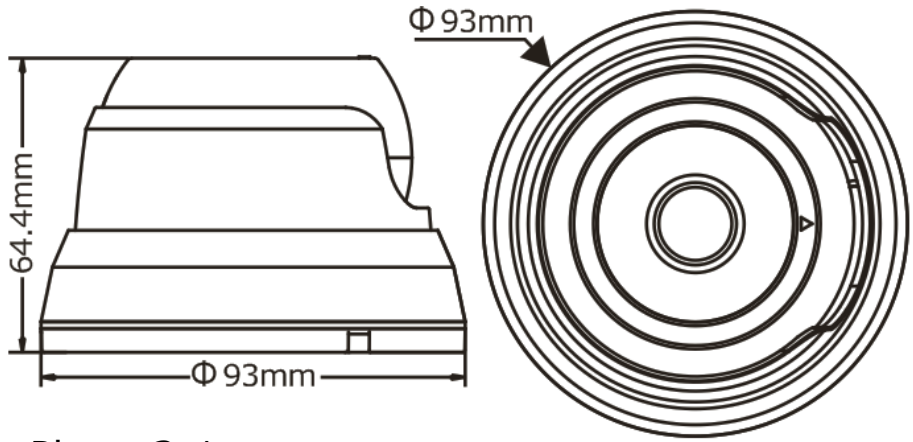


Photo 3-1

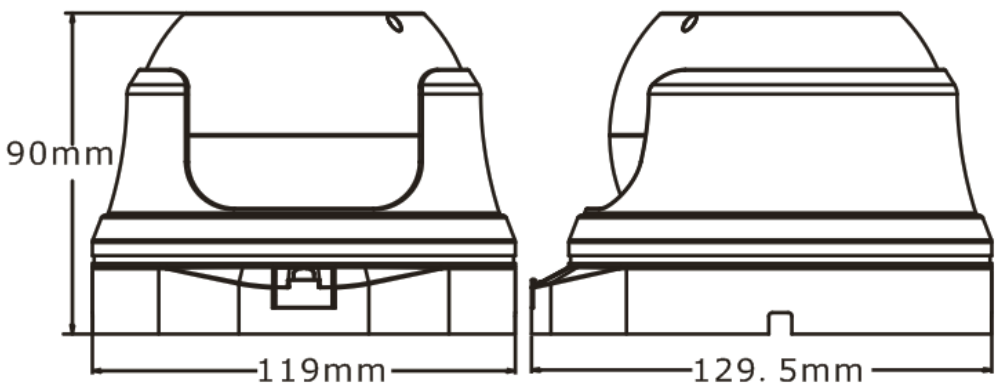


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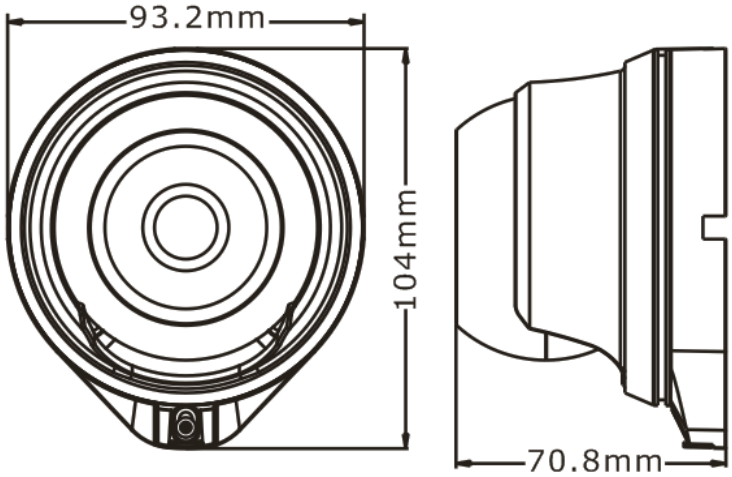


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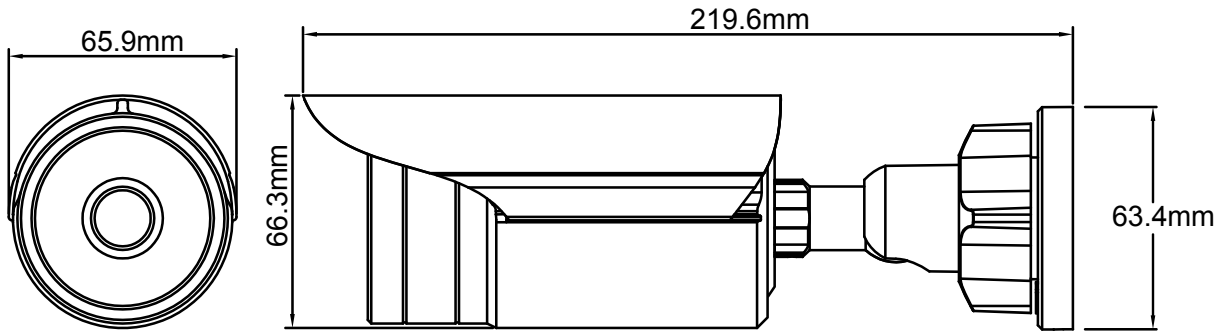


Photo 3-4

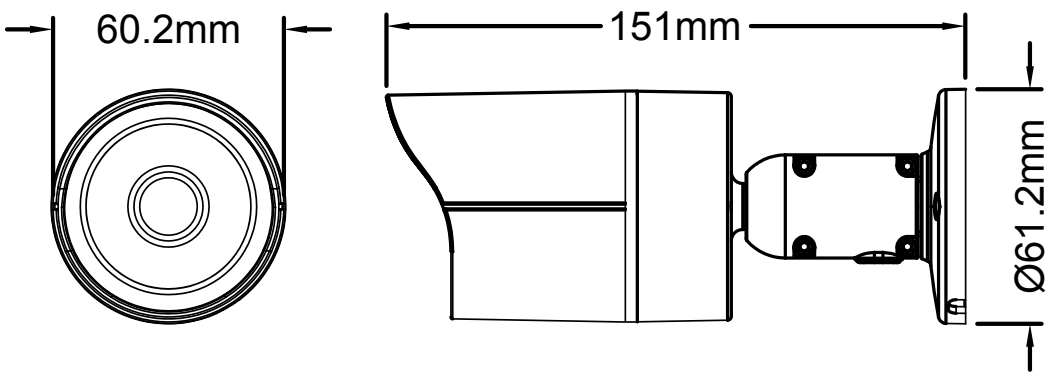


Photo 3-5

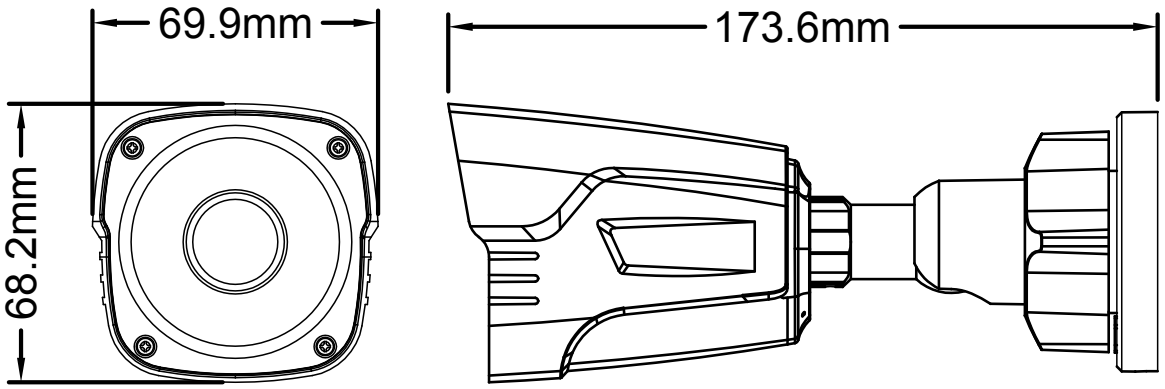


Photo 3-6

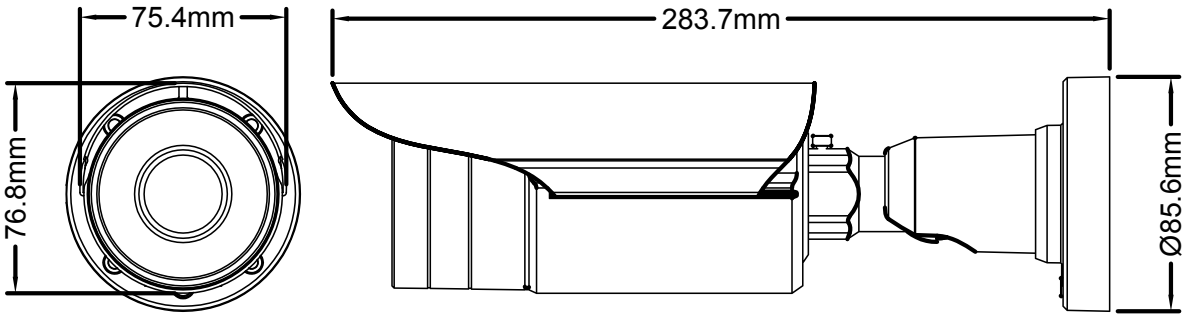


Photo 3-7

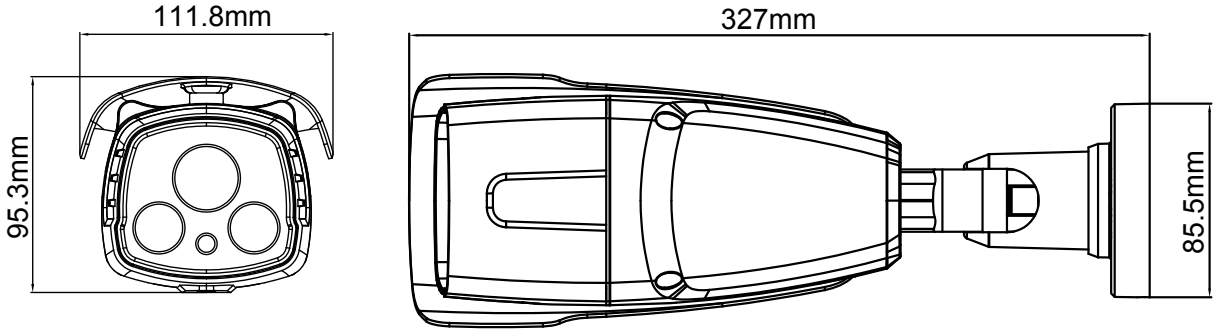


Photo 3-8

4 Technical Parameters

	Name	500Pixel Four unity
IMAGE	Resolution	HD-Analog：2592×1944 (P：5MP@12.5fps / N：5MP@20fps)
	Image Sensor	1/2.8" 5.14MP SONY IMX335LQN-C Starvis CMOS
	Total Pixels	2704 (H) × 2104 (V)
	Effective Pixels	2616(H) × 1964 (V)
	Scanning System	Progressive
	Video Output	HD-Analog: HDCVI(TVI、AHD) （5MP、4MP、1080P） Analog: 1Vp-p Composite Output (75Ω/BNC)
	S/N Ratio	≥50dB(AGC OFF)
	Min. Illumination	COLOR：0. 1Lux@ (F2.0，AGC ON) B&W：0.01Lux@ (F2.0，AGC ON)
FUNCTION	Day & Night	EXTERN / COLOR / B&W / AUTO
	White Balance	AUTO
	DNR	3D NR
	WDR	Wide Dynamic Range
	Focusing	AUTO
SPEC	Working Temperature Humidity	-10℃ ~+60℃，Humidity 90% or less (non-condensing)
	Storage Temperature	-20℃~+80℃
	Power Supply	DC12V± 10%

5 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	AUTO、COLOR、MONO、EXT	
IMAGE ENHANCE	CONTRAST	AUTO	
		MANUAL	0~10
	SHARPNESS	AUTO	
		MANUAL	0~10
	SATURATE	AUTO	
		MANUAL	0~10
	3DNR	AUTO	
		MANUAL	0~10
VIDEO SETTING	HD	CVI、AHD、TVI、CVBS	
	STANDARD	5MP、4MP、1080P	
	VERSION	FX5.00.01	
	APPLY&REBOOT		
LANGUAGE	English、Chinese_simple、Chinese_traditional、Russian、Spanish、French、Polish、Italian、Portuguese、Japanese、Korea		
WDR	ON/OFF		
LENADJ	L+L+R+R+C		
RESET			
SAVE&EXIT			
EXIT			

6 Product Installation

6.1 Note

1) Make sure the unit is powered off before installation.
2) Check power supply voltage consistent with the electric voltage to prevent voltage unworthy, resulting in damage to the device.
3) Do not use in the environment beyond the boundaries of the temperature, and maintain good ventilation to prevent the rain in order to reduce the risk of fire or electric shock.
4) The installation and maintenance of this product should be professional, 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.

6.2 Installation Tools and Information

Prepare the required engineering data and instructions. Before installation please prepare the following tools and instrumentation: A straight or a Phillips-head screwdriver, multi-meter, scissors, needle nose pliers, tape measure, pencil and so on.

6.3 Installation Method

1. Check the equipment whether it is damaged.
2. Mounting bracket or base.
   ① If the cement wall, install the expansion screws (expansion screw holes need stand or base hole), and then mount

bracket or base.

② If the wooden wall, use self-tapping screws to mount.

3. Mounting the camera

a. Dome Camera

Adjust the lens position and make it aim at the monitoring points and present a clear picture, manually fix lens location and adjust the hemisphere cover. Re-examine the screen whether the character meets the requirement. Tighten the hemisphere cover.

b. Box Camera

Adjust the body so that the lens aims at the monitoring points and presents a clear picture. Tighten the screws, to ensure that it does not move.

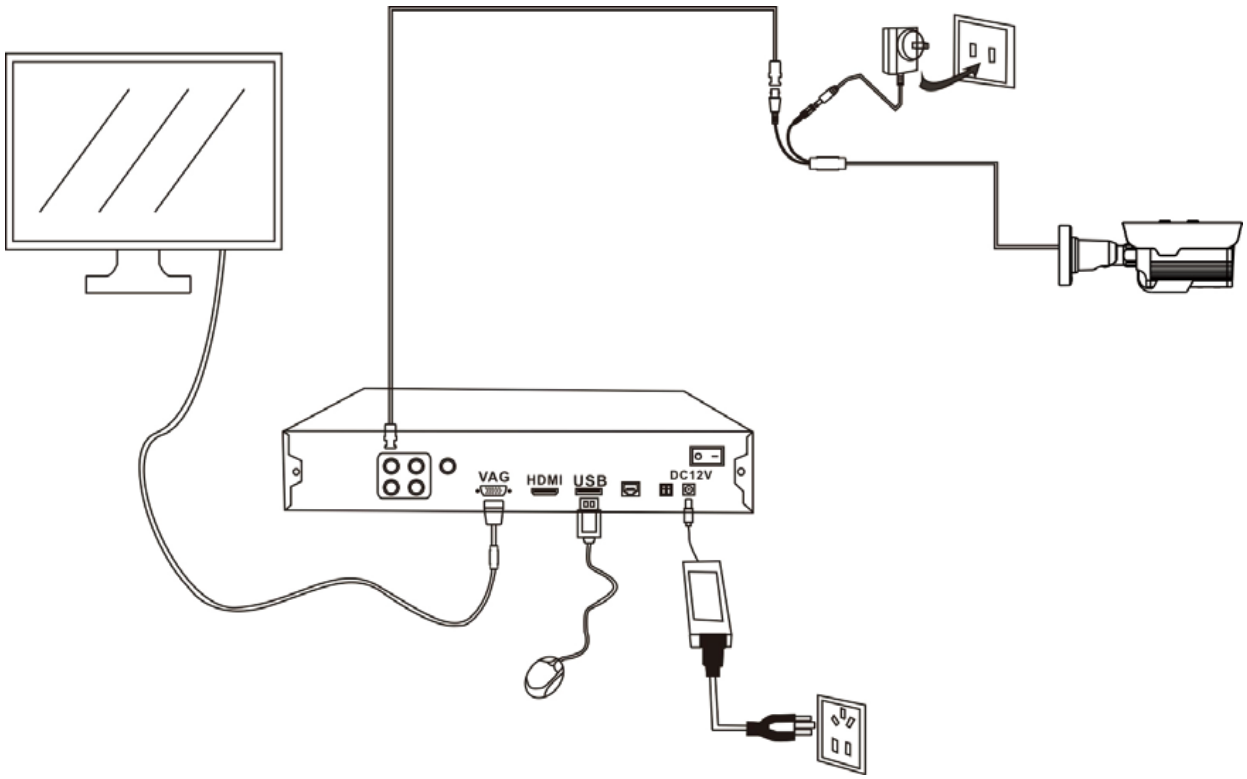
Installation method above is for reference only, the specific installation, please be kind.

Note:

The wall needs to bear at least 3X weight of bracket (base) and camera.

6.4 Connection

Connection as show in the figure below



Appendix: FAQ

Q: No picture with power on

A: It may result from abnormal power supply. Please check if the power supply voltage and its polarity are correct. Besides, please confirm if wires connection and monitors are normal.

Q: Unclear image output

A: It is caused by incomplete adjustment of the lens back focus. Loose the fixed screw of the lens until it turns clear. If not, please check if the lens is in good condition, or the lens surface and sensor surface exist foreign objects. If exist, it can be wiped by degreasing cotton swab or lens paper.

Q: Horizontal interference fringes on image

A: This phenomenon is generally caused by too strong hum bar of power supply, which needs to be filtered out. It may also be related to the used monitor or peripheral devices.

Q: Constantly change of the ground color of image

A: This phenomenon is caused by color scrolling, which is mainly due to alternating electromagnetic field of fluorescent lamp, and the inherent phenomenon of camera. It can be weakened with two methods: one is to reduce the usage of fluorescent lamp. The other is to enlarge the distance with the camera. To overcome it thoroughly, please select LL synchronization camera.

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