RUGGED CAMS

PLATINUM 622

USER MANUAL

Contents

1 Notes

Read this manual carefully before use.

1)To reduce the risk of electric shock, do not open the machine and maintain 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℃～+50℃(Fahrenheit temperature is 14℉～122℉). 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 exits, 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 both TVI/CVBS 960H output as well as realize high speed, long distance and real time video transmission.

2.2 Product Feature

1.1/2.9" 2.0M SONY Exmor CMOS

2. Full HD Resolution:

   1080p 30fps / 720p 60fps

3. WDR(Wide Dynamic Range)

4. ACE(Advanced Contrast Enhancement)

5. DNR(Digital Noise Reduction. 2D+3D)

6. Defog Function

7.Day&Night

8. Privacy Mask Function

9. Motion Detection

10. Auto White Balance

11.Smart IR Function

12. Low Power Consumption:80mA

13. Support Coaxial Control Signal

14.Microphone Embeded(Optional)

3 Product Structure

The followings are the dimensions of some products. No further notice for the upgraded version.
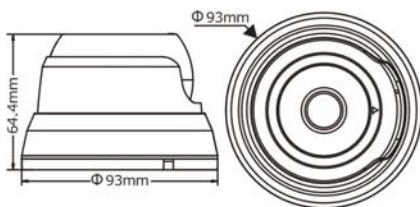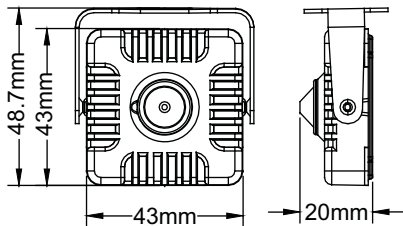
Photo 3-2 Indoor IR Dome Camera
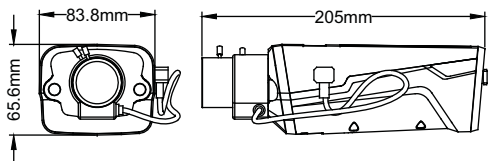
Photo 3-3 Indoor Mini Camera

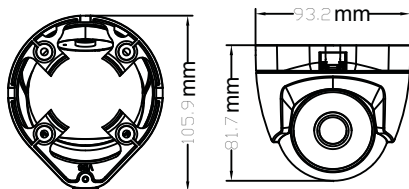Photo 3-4 Indoor BOX Camera

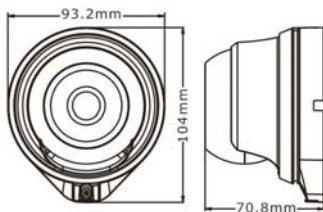Photo 3-5 Outdoor IR Dome Camera
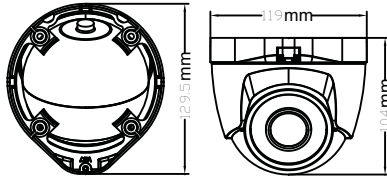

Photo 3-6 Outdoor IR Dome Camera

Photo 3-7 Outdoor Vari-focal Dome Camera
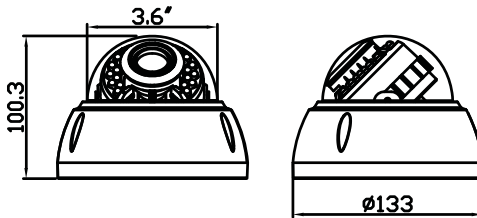
Photo 3-8 Outdoor Vari-focal Dome Camera

Photo 3-9 Outdoor Vari-focal Dome Camera

Photo 3-10 Outdoor IR Bullet Camera

Photo 3-11 Outdoor IR Bullet Camera

Photo 3-12 Outdoor IR Bullet Camera

Photo 3-13 Outdoor IR Bullet Camera

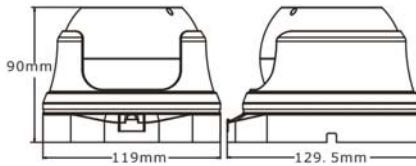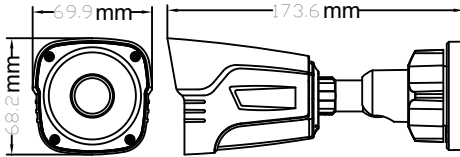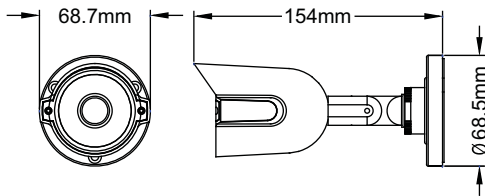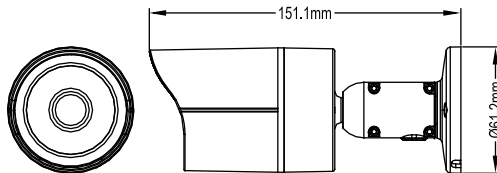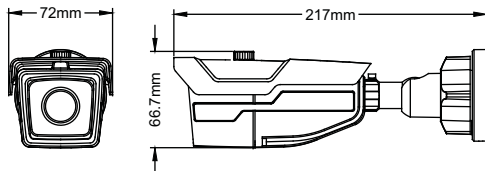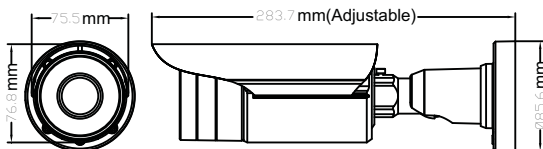Photo 3-14 Outdoor IR Bullet Camera
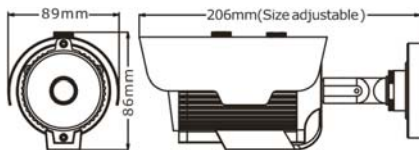
Photo 3-15 Outdoor IR Bullet Camera
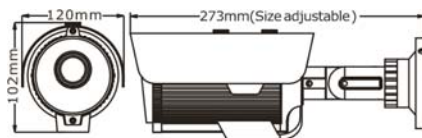
Photo 3-16 Outdoor Vari-focal Bullet Camera
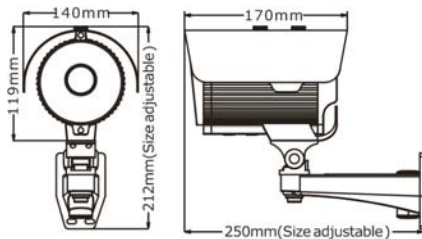
Photo 3-17 Outdoor Vari-focal Bullet Camera
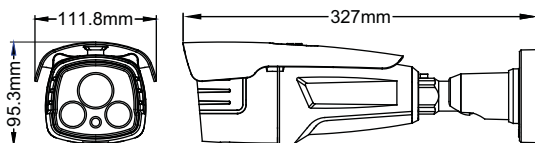
Photo 3-18 Outdoor Vari-focal Bullet Camera

4 Technical Parameters

I M A G E	Resolution	HD-Analog: 1920×1080p(1080p/30fps) 1280×720p(720p/60fps) Analog:960H
	Image Sensor	1/2.9" 2.0M SONY IMX323LQJ-C Exmor CMOS
	Total Pixels	1945(H)×1109(V)
	Effective Pixels	1945(H)× 1097 (V)
	Scanning System	Progressive
	Video Output	Press and hold for 5 seconds the "menu" button to switch output format among AHD CVI and TVI Press the button once to activate the OSD, which can also be done by the DVR, if the DVR supports such function
	S/N Ratio	≥50dB(AGC OFF)
	Min. Illumination	COLOR：0.1Lux@(F2.0，AGC ON) B&W：0.001Lux@(F2.0，AGC ON)
F U N C T I O N	Day & Night	EXTERN,COLOR, B&W,AUTO
	White Balance	AUTO
	DNR	2D+3D NR
	ACE	OFF/LOW/MIDDLE/HIGH
	Defog	OFF/ON
	IRIS	AUTO,MANUAL
	PRIVACY MASK	ON、OFF(16Zones)
	MOTION DET	ON、OFF(4Zones)
S P E C	Working Temperature Humidity	-10℃~60℃，Humidity 90% or less (non-condensing)
	Storage Temperature	-20℃~+60℃
	Power Supply	DC12V±10%(AC 24V Optional)
	Power Consumption	1.20W MAX

5 OSD Menu tree

Main Menu		Secondary menu	
LENS	ELC	NORMAL、DEBLUR	
	ALC	INDOOR、OUTDOOR、DEBLUR	
EXPOSURE	BRIGHTNESS	0~20	
	SHUTTER	AUTO、MANUAL、FLICKER	
	SENS-UP	OFF、X2、X4、X8、X16、X32	
	AGC	0~20	
WHITE BAL	AUTO		
	AUTOext		
	PRESET		
	MANUAL	KELVIN	LOW、MIDDLE、HIGH
		R-GAIN	0~20
		B-GAIN	0~20
BACKLIGHT	OFF		
	HLC	MODE	ALL DAY、NIGHT ONLY
		LEVEL	0~20
	BLC	H-POS	0~20
		V-POS	0~20
		H-SIZE	0~20
		V-SIZE	0~20
	WDR	WEIGHT	LOW、MIDDLE、HIGH
DNR	OFF、LOW、MIDDLE、HIGH		
DAY&NIGHT	MODE	AUTO、COLOR、B&W、EXTERN	
	DELAY	0~20	
	D->N LEVEL	0~20	
	N->D LEVEL	0~20	
	IR LED	OFF、ON	
	SMART-IR LVL	0~20	
	POLARITY	HIGH、LOW	
IMAGE	SHARPNESS	0~20	
	COLOR GAIN	0~20	
	FREEZE	OFF、ON	
	FLIP	OFF、H-INV、V-INV、HV-INV	
	ACE	OFF、LOW、MIDDLE、HIGH	
	GAMMA	0.45、0.5、0.55、0.6、0.65	

IMAGE	DEFOG	OFF			
		ON	MODE	AUTO、MANUAL	
			LEVEL	LOW、MIDDLE、HIGH	
SPECIAL	SYSTEM	OUTPUT MODE	1080P、720P		
		COLOR SPACE	HD-CbCr、YUV、SD-CbCr		
		FRAME RATE	25/30、50/60		
		CVBS	PAL、NTSC		
		BLACK LEVEL	FULL		
			COMP		
			USER	OFFSET	0~20
		VERSION	V0.0.2		
	COMM ADJ	CAM ID	0~255		
	LANGUAGE	ENG、CHN			
	ZOOM DIS	OFF、ON			
	PRIVACY	OFF			
		ON	ZONE NUM	0~15	
			ZONE DISP	OFF、ON	
			H-POS	0~60	
			V-POS	0~40	
			H-SIZE	0~40	
			V-SIZE	0~40	
			Y LEVEL	0~20	
			CR LEVEL	0~20	
			CB LEVEL	0~20	
	MOTION	OFF			
		ON	SENSITIVITY	0~20	
			WINDOW TONE	0~6	
			WINDOW USE	0~3	
			WINDOW ZONE	OFF、ON	
			DET H-POS	0~60	
			DET V-POS	0~40	
			DET H-SIZE	0~60	
			DET V-SIZE	0~40	
			ALARM	OFF、ON	
	SHADING	OFF			
		ON	WEIGHT	0%~100%	
	ADJUST	COLORBAR	OFF、ON		
	LENS ADJ	LENS ADJ			
RESET ON					
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 in any way to remove or modify the equipment; can 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.
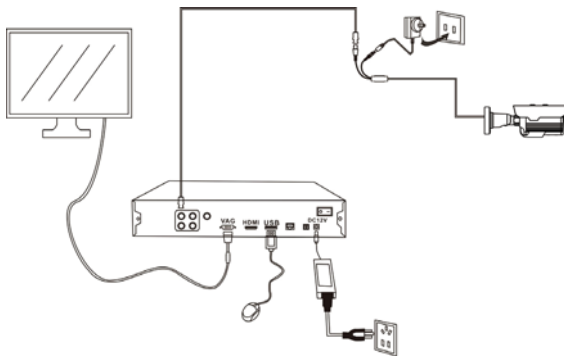
Installation method above is for reference only, the specific installation, please be kind.

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 exits foreign objects. If exits, 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.

XVI CAMERA

1080P XVI Camera Series
XV2100(V0.02)