

HD CCTV Total Solution

IR Bullet Camera User Manual



The product image shown above may differ from the actual product.
Please use this camera with a DVR which supports HD video recording.
Please read the instructions thoroughly before using the product.

d205x_V1.1

697Z

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d205x_V1.1

IMPORTANT SAFEGUARD



CAUTION
RISK OF ELECTRIC SHOCK



CAUTION:

To reduce the risk of electric shock, do not expose this apparatus to rain or moisture.

Only operate this apparatus from the type of power source indicated on the label.

The company shall not be liable for any damages arising out of any improper use, even if we have been advised of the possibility of such damages.



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.



This exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.



All lead-free products offered by the company comply with the requirements of the European law on the Restriction of Hazardous Substances (RoHS) directive, which means our manufacture processes and products are strictly "lead-free" and without the hazardous substances cited in the directive.



The crossed-out wheeled bin mark symbolizes that within the European Union the product must be collected separately at the product end-of-life. This applies to your product and any peripherals marked with this symbol. Do not dispose of these products as unsorted municipal waste. Contact your local dealer for procedures for recycling this equipment.



CE Mark

This apparatus is manufactured to comply with the radio interference.

The company does not warrant that this manual will be uninterrupted or error-free. We reserve the right to revise or remove any content in this manual at any time.

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FEATURES

1. 1/ 2.9" CMOS Sensor with 1080P video output
2. Low light sensitivity of 0.1 Lux / F1.4(Wide)~F2.8(Tele), 0 Lux (IR LED ON)
3. IR effective distance up to 25 meters for day and night surveillance
4. IP66 for weather-proof application
5. Camera parameters adjustable when used with HD CCTV DVR

PACKAGE CONTENT

- IR camera * 1
- User manual * 1
- Installation sticker * 1
- Accessory * 1
- Sun shield * 1

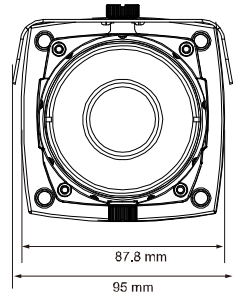
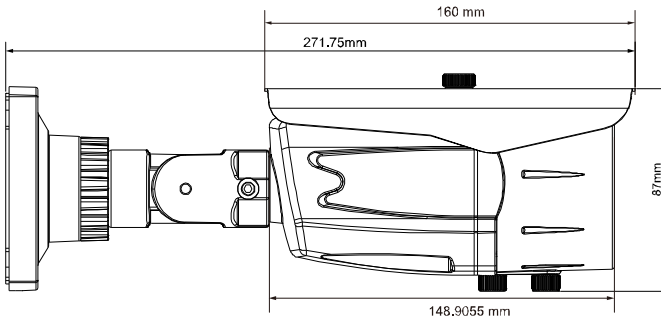
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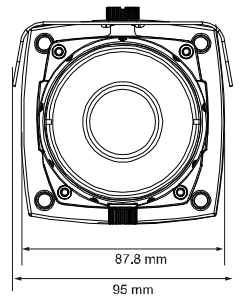
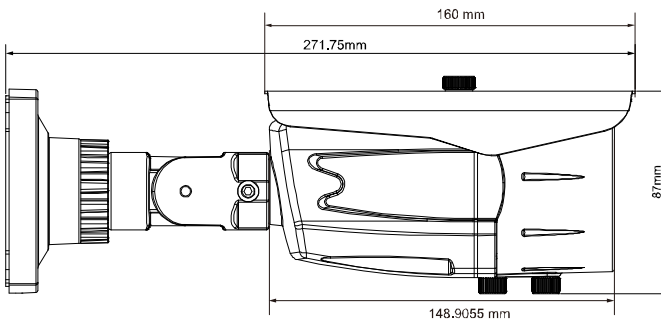
DIMENSIONS*



*Dimensional Tolerance: ± 5 mm

2

DIMENSIONS*



*Dimensional Tolerance: ± 5 mm

2

SPECIFICATIONS*

Pick-up Element	1/ 2.9" CMOS image sensor
Number of Pixels	1936(H) × 1096(V)
Video Frame Rate	1080P@30fps / 1080P@25fps
Min. Illumination	0.1 Lux / F1.4(Wide)~F2.8(Tele), 0 Lux (IR LED ON)
S/N Ratio	More than 48dB (AGC OFF)
Shutter Speed	1/30 (1/25) sec ~ 1/33750 (1/28125) sec
Lens	f2.8 ~ 12mm / F1.4 ~ F2.8
Lens Angle	Wide: 103° (Horizontal) / 54° (Vertical) / 122° (Diagonal) Tele: 31° (Horizontal) / 17° (Vertical) / 36° (Diagonal)
IR LED	36 units
IR Effective Distance	Up to 25 meters
IR Shift	YES
Day & Night Mode	YES
IRIS Mode	AES
White Balance	AUTO / INDOOR / OUTDOOR / USER
AGC	High / Middle / Low / Off
Sharpness	Adjustable
IP Rating	IP66
Operating Temperature	-25℃ ~ 50℃
Power Source (±10%)	DC12V / 1A
Current consumption (±10%)	210mA (IR OFF); 520mA (IR ON)

* The specifications are subject to change without notice.

SPECIFICATIONS*

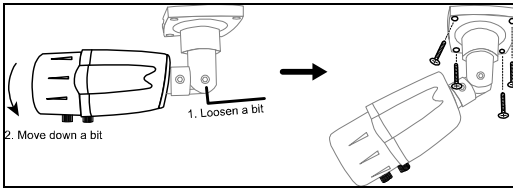
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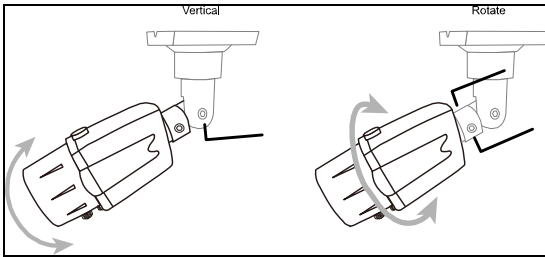
INSTALLATION

Step1: Loosen the screw as indicated below to move down the camera lens.

Then, locate where to install this camera, and fasten the camera to the ceiling or wall.



Step2: Adjust the viewing angle of the camera as indicated below.

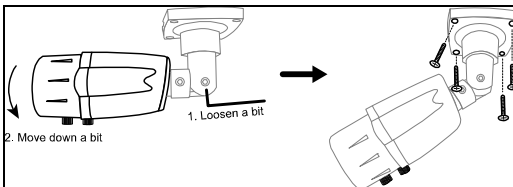


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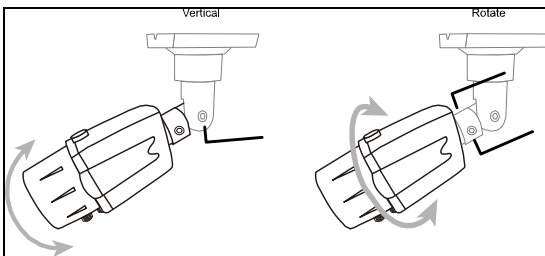
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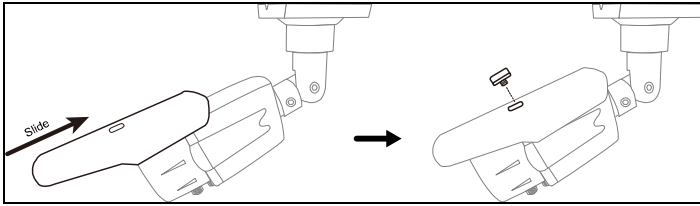


Step2: Adjust the viewing angle of the camera as indicated below.

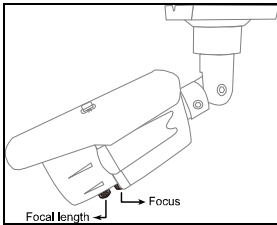


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Step3: Slide the sun shield to the camera, and fasten it with the supplied screw.

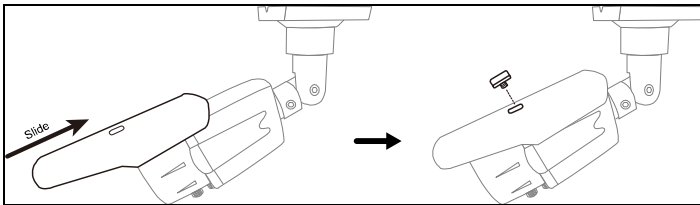


Step4: Power on the camera, and adjust the focal length and focus by turning the screws as indicated below.

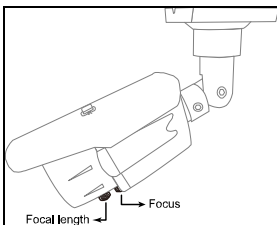


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Step3: Slide the sun shield to the camera, and fasten it with the supplied screw.



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CONNECTION

1. DC12V Input Terminal

Connect the power terminal of the camera to a DC 12V regulated power supply.

Note: Please use the correct power adaptor, DC12V (regulated), to operate this unit. The power tolerance of this unit is DC12V \pm 10%. Over maximum DC 12V power input will damage this unit.

1. Video Output Connector (VIDEO OUT)

Connect the camera video output to the video input of a DVR with 75 Ω coaxial cable.

Note: To ensure the camera has sufficient protection against moisture, an extra waterproof measure, such as by using an insulating tape, must be used to cover the power and video connectors after connection.

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CAMERA PARAMETERS

This camera series has its own configuration menu, and either of the two methods below is available to access the menu based on the camera model you have.

Note: The methods below are available only when the camera is used with our brand's HD CCTV DVR.

■ Method 1

On the DVR live view, click the channel which connects this camera to display in the full screen mode, and select .

Click " to enter the menu of camera parameters.

■ Method 2


On the DVR live view, right click to show the DVR main menu, and select **ADVANCED CONFIG** → **DCCS**. Then, select the channel which connects this camera, and click **SETUP** to enter the menu of camera parameters.

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



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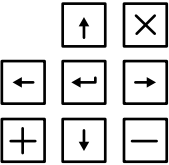
■ Method 2

On the DVR live view, right click to show the DVR main menu, and select **ADVANCED CONFIG** → **DCCS**. Then, select the channel which connects this camera, and click **SETUP** to enter the menu of camera parameters.

ADVANCED CONFIG	
CAMERA	CH1 CH2 CH3 CH4
DETECTION	MENU SETUP
ALERT	
NETWORK	
DISPLAY	
RECORD	
DEVICES	
DCCS	DEVICE XXXXX
NOTIFY	CONNECTION OK





When the camera menu is entered, you'll see the keys on the bottom right corner to move between and change those configurations.

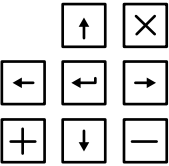
-  Move between selections.
-  Change settings.
-  Call the camera parameters menu or enter the currently-selected item.
-  Quit the camera parameters mode.



ADVANCED CONFIG	
CAMERA	CH1 CH2 CH3 CH4
DETECTION	MENU SETUP
ALERT	
NETWORK	
DISPLAY	
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DEVICES	
DCCS	DEVICE XXXXX
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-  Move between selections.
-  Change settings.
-  Call the camera parameters menu or enter the currently-selected item.
-  Quit the camera parameters mode.



MENU			DESCRIPTION
EXPOSURE	LENS TYPE	FIX	No function.
	SHUTTER	AUTO	Automatically adjust the shutter speed for exposure based on the current environment.
		1/100 1/200 1/250 1/500 1/1000 1/2000 1/4000 1/10000	Manually choose the shutter speed you need for exposure.

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		1/100 1/200 1/250 1/500 1/1000 1/2000 1/4000 1/10000	Manually choose the shutter speed you need for exposure.

MENU			DESCRIPTION
EXPOSURE	AGC	OFF / LOW / MIDDLE / HIGH	Set the level of Auto Gain Control to detect and enhance the image signals when the light condition is poor. The higher the value, the stronger the signals will be enhanced, and the more noise the image will get.
	EXPOSURE VALUE	1 ~ 17	When AUTO is selected and you're not satisfying with current image brightness, you can manually adjust the value to add or decrease the exposure level.
WHITE BALANCE	MODE	AUTO	Automatically adjust the white balance based on the surrounding environment.
		INDOOR / OUTDOOR	Fix the white balance mode to INDOOR / OUTDOOR depending on your environment.
		USER	Manually adjust the white balance parameters. Choose USER , and move down to adjust R-GAIN / B-MODE to customize your own white balance parameters.

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MENU			DESCRIPTION
EXPOSURE	AGC	OFF / LOW / MIDDLE / HIGH	Set the level of Auto Gain Control to detect and enhance the image signals when the light condition is poor. The higher the value, the stronger the signals will be enhanced, and the more noise the image will get.
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MENU			DESCRIPTION
DAY & NIGHT	MODE	EXT	Use the external light sensor we added in the camera to detect the surrounding light condition and switch to color or B/W mode. If you're not satisfying with the mode switch time, move down to D ▶ N LEVEL / N ▶ D LEVEL to manually adjust the sensitivity. The higher the value is, the higher the sensitivity is and quicker the mode is switched.
		COLOR	Always keep the day and night mode to day mode.
		B/W	Always keep the day and night mode to night mode.
IMAGE SET	BRIGHTNESS	1 ~ 256	Set the level of brightness to adjust the brightness of the image. The more the value, the brighter the image will be.
	CONTRAST	1 ~ 256	Set the level of contrast. The more the value, the more the contrast level of the image will be.

MENU			DESCRIPTION
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		COLOR	Always keep the day and night mode to day mode.
		B/W	Always keep the day and night mode to night mode.
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	CONTRAST	1 ~ 256	Set the level of contrast. The more the value, the more the contrast level of the image will be.

MENU			DESCRIPTION
IMAGE SET	COLOR GAIN	1 ~ 256	Set the level of color saturation. The more the value, the more saturated the color will be, but the more noise the image will get.
	SHARPNESS	1 ~ 256	Set the level of sharpness to enhance the clarity of image detail by adjusting the aperture and sharpening the edges. The more the value, the sharper the image will be.
	NR	OFF / LOW / MIDDLE HIGH	Set the noise reduction mode to LOW / MIDDLE / HIGH to suppress the noise based on the current environment, or select OFF to disable this function.
	MIRROR	NONE / H / V / HV	Rotate the images horizontally (H) or vertically (V), or horizontally & vertically (HV) simultaneously based on your installation situation when necessary.

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MENU			DESCRIPTION
IMAGE SET	COLOR GAIN	1 ~ 256	Set the level of color saturation. The more the value, the more saturated the color will be, but the more noise the image will get.
	SHARPNESS	1 ~ 256	Set the level of sharpness to enhance the clarity of image detail by adjusting the aperture and sharpening the edges. The more the value, the sharper the image will be.
	NR	OFF / LOW / MIDDLE HIGH	Set the noise reduction mode to LOW / MIDDLE / HIGH to suppress the noise based on the current environment, or select OFF to disable this function.
	MIRROR	NONE / H / V / HV	Turn the images horizontally (H) or vertically (V), or horizontally & vertically (HV) simultaneously based on your installation situation when necessary.

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MENU		DESCRIPTION	
IMAGE SET	LANGUAGE	ENGLISH / 中文(簡) Select the language of the menu: English / Simplified Chinese.	
FUNC. SET	MOTION DETECTON*	SCREEN ALARM	Select ON to enable motion detection or OFF to disable this function.
		PAD OUTPUT	No function.
		SECTION	Select the area for motion detection.
		SENSITIVITY	Select the sensitivity for motion detection from LOW, MIDDLE and HIGH . You'll see a default masking area on the screen.
	PRIVACY	MASKING	Select ON / OFF to enable / disable this function.
		COLOR	Select a color to show area masking.

* The function here is for this camera only, and the detection log will be not noted in the DVR.

MENU		DESCRIPTION	
IMAGE SET	LANGUAGE	ENGLISH / 中文(簡) Select the language of the menu: English / Simplified Chinese.	
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MENU			DESCRIPTION
FUNC. SET	PRIVACY	HEIGHT / WIDTH / LEFT / RIGHT / TOP / BOTTOM	Set the area to mask.
	SYSTEM SETUP	OSD COLOR	Select the color for this OSD display.
		OSD BG	Select the background color for this OSD display.
RESET	FACTORY MODE		Enable to restore the camera parameters to factory default values. The camera image will flash once when the reset is done.
SAVE & EXIT	SAVE & EXIT		Select YES to save and exit, or select NO to exit without saving.

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MENU			DESCRIPTION
FUNC. SET	PRIVACY	HEIGHT / WIDTH / LEFT / RIGHT / TOP / BOTTOM	Set the area to mask.
	SYSTEM SETUP	OSD COLOR	Select the color for this OSD display.
		OSD BG	Select the background color for this OSD display.
RESET	FACTORY MODE		Enable to restore the camera parameters to factory default values. The camera image will flash once when the reset is done.
SAVE & EXIT	SAVE & EXIT		Select YES to save and exit, or select NO to exit without saving.

14

FAQ

- Q: The image quality at night is too dark. What can I do to improve it?
- A: Please go to the camera's parameter setting page as described in the section of "CAMERA PARAMETERS", and select **EXPOSURE** -> **AGC** to change the value to **MIDDLE**, and check again.

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- Q: The image quality at night is too dark. What can I do to improve it?
- A: Please go to the camera's parameter setting page as described in the section of "CAMERA PARAMETERS", and select **EXPOSURE** -> **AGC** to change the value to **MIDDLE**, and check again.