

Vari-Focal IR Bullet Camera **User's Guide**

CM-S23349SV



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SAFETY PRECAUTIONS

WARNING

1. Be sure to use only the standard adapter that is specified in the specification sheet. Using any other adapter could cause fire, electrical shock, or damage to the product
2. Incorrectly connecting the power supply or replacing battery may cause explosion, fire, electric shock, or damage to the product.
3. Do not connect multiple cameras to a single adapter. Exceeding the capacity may cause abnormal heat generation or fire.
4. Securely plug the power cord into the power receptacle. Insecure connection may cause fire.
5. When installing the camera, fasten it securely and firmly. A falling camera may cause personal injury
6. Do not place conductive objects (e.g. screwdrivers, coins, metal things, etc.) or containers filled with water on top of the camera. Doing so may cause personal injury due to fire, electric shock, or falling objects.
7. Do not install the unit in humid, dusty, or sooty locations. Doing so may cause fire or electric shock.
8. If any unusual smells or smoke come from the unit, stop using the product. In such case, immediately disconnect the power source and contact the service center. Continued use in such a condition may cause fire or electric shock.
9. If this product fails to operate normally, contact the nearest service center. Never attempt to modify this product in any way. (ZMOD0 is not liable for problems caused by unauthorized modifications or attempted repair.)
10. When cleaning, do not spray water directly onto parts of the product. Doing so may cause fire or electric shock.

CAUTION

1. Do not drop objects on the product or apply strong shock to it. Keep away from a location subject to excessive vibration or magnetic interference.
2. Do not install in a location subject to high temperature (over 120F), low temperature (below -5F), or high humidity. Doing so may cause fire or electric shock.
3. If you want to relocate the already installed product, be sure to turn off the power and then move or reinstall it.
4. Remove the power plug from the outlet when there is a lightning. Neglecting to do so may cause fire or damage to the product.
5. Keep out of direct sunlight and heat radiation sources. It may cause fire.
6. Install it in a place with good ventilation.
7. Avoid aiming the camera directly towards extremely bright objects such as sun, as this may damage the CCD image sensor.
8. Apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the apparatus.
9. The Mains plug is used as a disconnect device and shall stay readily operable at any time.

	CAUTION RISK OF ELECTRIC SHOCK DO NOT OPEN	
CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE REAR COVER. NO USER SERVICEABLE PARTS INSIDE. REFER TO QUALIFIED SERVICE PERSONNEL.		
	This symbol alerts you that important literature concerning operation and maintenance has been included with this product.	
	This symbol indicates high voltage is present inside. It is dangerous to make any kind of contact with any inside part of this product.	

PRODUCT OVERVIEW

Product Overview

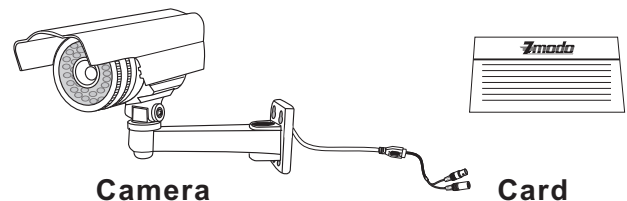
Keep an eye on the people and places you care about most with this color CCD bullet camera. Featuring imaging provided by a 1/3" Sony Color CCD, it delivers great video quality at 420 TV Lines, reliable operation, a long operating life, and premium performance at an affordable price. With 36 built in IR LEDs, this camera can capture video in night vision mode up to 99' away. With 4~9mm vari-focal lens, it allows you to have a wider or further view angle. This bullet camera is designed for indoor or outdoor use, and can easily be mounted for the perfect viewing angle. BNC and RCA connections are used for video and power. Installation is easy and hassle free, just plug and play.

Main Features

- 1/3" Sony Color CCD Image Sensor
- 420 TV Lines, Horizontal
- 4~9mm Vari-focal Lens
- Weatherproof: Yes
- Signal: NTSC
- Iris: Auto
- Night Vision Min. Light: 0 Lux (IR On)
- IR Irradiation Distance: 99' (30m)
- Operation Temperature: -5F ~ 120F
- Mount: Wall
- Video Connector: BNC
- Power Connector: RCA 12V DC

Package includes

Please check your camera and accessories included in the package. Those components are as shown below:



Camera

Card



Screws



Package Box

- 1) CM-S23349SV Vari-Focal IR Bullet Camera
- 1) A Card
- 4) Screws
- 1) Package Box

SCHEMATIC DIAGRAM

1 Main Body

2 Lens

3 LEDs

4 Screw Adjustment

5 Mount Bracket

6 Focus

7 Zoom

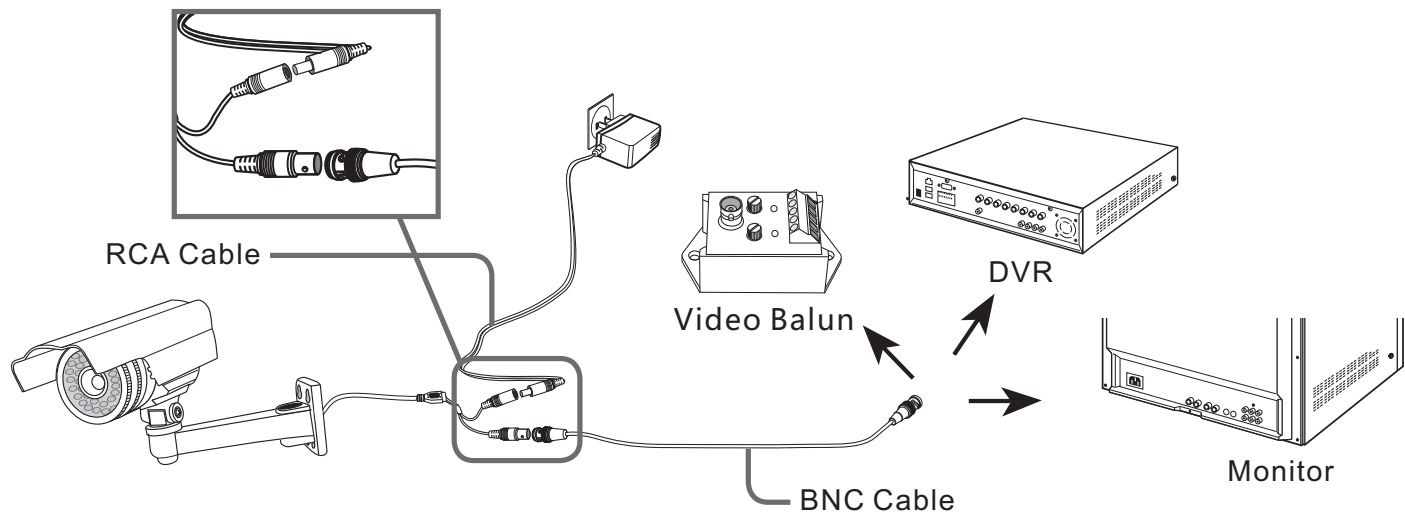
All Dimensions = $\frac{\text{in}}{\text{cm}}$



Application Drawing



CONNECTING CABLES



To connect cables

1. Connect the BNC cable to the video connector attached on your camera
2. Connect the BNC cable to the Video Input on a monitor, DVR or Video Balun.
3. Connect the power adapter to the RCA Power connector attached on your camera. When the monitor is turned on, the camera image appears.

Note

It is very important that you identify these ends before installing the cable so that you have the correct ends at the correct location.

HOW TO INSTALL

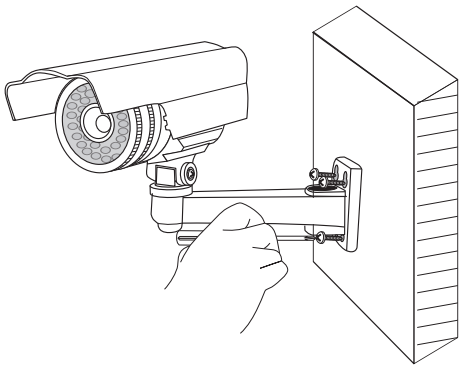
Before installation

Please read the following instructions before installing your camera:

- You have to check whether the location (ceiling or wall) can bear five times the weight of your camera.
- Do not allow the cable to be caught in a pinched area, otherwise the electric line cover may be damaged. This may cause cable breakdown or fire.
- When installing your camera, don't allow anyone to walk or stand under your installation site, and remove all valuable items. A dropped camera may cause injury to bystanders or harm to valuable items.

Installation procedure

- To install your camera



step

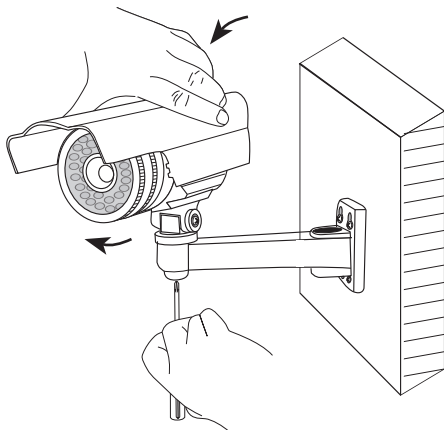
1

Drill four small holes on the mounting location.

Note

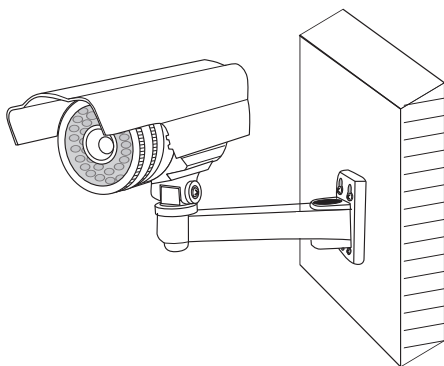
This camera can only be mounted on the wall.

HOW TO INSTALL



step

2 Attach the Main Body to the mounting location using the 4 screws supplied in your package. As shown in the picture, push the 4 screws into the four holes at the end of the camera Mount Bracket, then twist them into the holes on the wall using screwdriver.



step

3 Last, adjust the slope of the lens by twirling the cameras up and down, left and right to make sure that the front of the Main Body is facing the camera's monitoring area. There are two focus screws in the rear of the camera for you to adjust your lens.

Note

There are three screws on the front end of the camera Mount Bracket. With the screws on the two sides, you can adjust the cameras up and down, and with the screws under it, you can adjust the cameras left and right to make sure that the camera is facing the monitoring area.

CAMERA SPECIFICATION

Specifications for NTSC & PAL Standard

Item	Details		
Product type	Weatherproof Vari-Focal IR Bullet Camera		
Power input	DC 12V		
Broadcast type	NTSC Standard color system		PAL Standard color system
	(525 Lines, 60 Fields)		(625 Lines, 50 Fields)
Power Consumption	Approx. 7mA		
Image device	1/3 inch SONY Color CCD		
Effective Pixels	510(H) x 492(V), 250,920 pixels		
Scanning mode	NTSC Standard		PAL Standard
	525 Lines		625 Lines
Synchronization mode	Internal Synchronization		
Horizontal resolution	420 TV Lines		
Minimum illumination	0.0Lux (IR Lamps on)		
IR Lamps	36 LEDs		
IR Distance	Visible up to 30m(99')		
Signal output	1.0Vp-p, 75ohms		
Lens	Focal Length	Zone	Limit of Viewing Angle
	Vari-focal 4~9 mm	Horizontal	39°~72°
		Vertical	32°~63°
S/N Ratio	> 48dB		
Controls	Auto Iris		
	Auto Gain Control		
	Auto Back Light Compensation		
	Auto Switching between Color and B&W by day and night change(D/N)		
Product color	Silver		
Operation temperature	-5F—120F		
Size	6.7"x3.1"x3"		
Weight	1.54 lbs		
Mounting	Wall		

FCC Statement

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- 1) This device may not cause harmful interference.
- 2) This device must accept any interference received including interference that may cause undesired operation.

Note

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of 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.

Correct Disposal of This Product



(Waste Electrical & Electronic Equipment) (Applicable in the European Union and other European countries with separate collection systems) This marking shown on the product or its literature, indicates that it should not be disposed with other household wastes at the end of its working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate this from other types of wastes and recycle it responsibly to promote the sustainable reuse of material resources.

Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take this item for environmentally safe recycling. Business users should contact their supplier and check the terms and conditions of the purchase contract. This product should not be mixed with other commercial wastes for disposal.

Zmodo

SKU: CM-S23349SV

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