

IP Bullet IR Camera QUICK INSTALLATION GUIDE

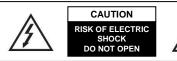


02B6M

Please read this manual carefully before installation and operation of the product.

Notice

Thank you for purchasing this product. This guide is designed to be a reference tool for the product. Please read it carefully before operating the product and retain it for future reference. Should you require any technical assistance, please contact Speco Technologies Technical Support.





CAUTION

TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE THE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED PERSONNEL.



The lighting flash with an arrowhead symbol, within an equilateral triangle is intended to alert the user to the presence of non-insulated dangerous voltage within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The 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.

INFORMATION

This equipment has been tested and found to comply with 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 its own expense.

WARNING

Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.

CAUTION – To prevent electric shock and risk of the fire hazards

- Do NOT use power source other than that specified.
- Do NOT expose this appliance to rain or moisture.

This installation should be made by a qualified service person and should conform to all local codes.

PRECAUTIONS

- Please read the manual carefully before the installation in order to set up the camera correctly and to obtain the best picture quality.
- · Please keep the manual in good condition for your future reference and service application.
- Installation and services should only be carried out by an authorized personnel according to local safety regulations.

- If any liquid or solid matter gets into the housing, immediately disconnect the camera from power supply and have it checked by your authorized dealer before reusing.
- · Avoid installing the camera at extremely hot or cold places.
- If you are not a certified person, never try to dismantle the camera.
 To avoid electric shock, never remove the screws or covers. There are no parts inside that need maintenance by the user. All maintenance should be carried out by qualified personnel.
- Avoid installing the camera at a place of high humidity.
- · Avoid installing the camera at the place exposed to gas or oil.
- Keep the top glass of the lens always clean in order to obtain the best picture quality all the time. Be careful not to be stained by fingerprint.
- Don't face the camera directly toward sunlight or sunlight reflecting area.
 IMAGE SENSOR may go defective at this condition.
- Please give a special attention to keep the unit from dangerous drop or external shock during the process of transportation or handling.
- Never try to touch the camera in wet hand. It may cause an electric shock.
- Do not expose the camera to radioactivity. It causes a serious damage on the IMAGE SENSOR.

LIMITATION OF LIABILITY

This publication is provided "AS IS" without warranty of any kind, either express or implied, including but not limited to, the implied warranties of merchantability, fitness for any particular purpose, or non-infringement of the third party's right.

This publication could include technical inaccuracies or typographical errors. Changes are added to the information herein, at any time, for the improvements of this publication and / or the corresponding product(s).

DISCLAIMER OF WARRANTY

In no event shall seller be liable to any party or any person, except for replacement or reasonable maintenance of the product, for the cases, including but not limited to below:

- (1) Any damage and loss, including without limitation, direct or indirect, special, consequential or exemplary, arising out of or relating to the product.
- (2) Personal injury or any damage caused by inappropriate use or negligent operation of the user.
- (3) Unauthorized disassemble, repair or modification of the product by the user.
- (4) Inconvenience or any loss arising when images are not displayed, due to any reason or cause including any failure or problem of the product.
- (5) Any problem, consequential inconvenience, or loss or damage, arising out of the system combined by the devices of third party.
- (6) Any claim or action for damages, brought by any person or organization being photogenic subject, due to violation of privacy with the result of that surveillance-camera's or video server's picture, including saved data, for some reason, becomes public or is used for the purpose other than surveillance.

1. PRODUCT OVERVIEW

Key Features

- 2.0 Mega pixel 1/2.9" SONY progressive scan CMOS image sensor
- Extended IR life span
- Triple Streaming of H.264 and M-JPEG
- Up to 30 frames per second at all image resolutions
- Supports image resolutions Full-HD (1920 x 1080)

- · Supports CBR (Constant Bit Rate) and VBR (Variable Bit Rate) modes
- · Supports Tampering-Alarm in VA (Video Analytics) function
- · Controllable frame rate
- Privacy Masking up to 8 areas
 Supports IEEE 802.3af Power over Ethernet injectors, mid- and end-spans
 HTTPS supported (Hyper Text Transfer Protocol Secured)
 DDNS and DHCP client

Specification

CLASSIFICATION		Night Vision Outdoor IR Camera
General	CPU	ARM1176JZF-STM (400 MHz, Instruction cache : 32kbyte, data cache : 16kbyte, MMU)
	Flash	2Gbit Flash Memory
	SDRAM	2Gbit DDR3 Memory
	Image Sensor	2.0 Megapixel 1/2.9" SONY progressive scan CMOS image sensor
	Total Pixels	1952(H) x 1116(V) 2.18 Megapixel
	Effective Pixels	1944(H) x 1104(V) 2.14 Megapixel
les a sea Dialesse	S/N Ratio	More than 50dB
Image Pickup	Min. Illumination	0Lux (IR On)
	IR Distance	40M
	Day & Night	ICR Filter Changer
	Lens Control	Motorized Lens Control
	Lens	3 ~ 12mm Vari-focal Motorized Megapixel Lens
	Video Compression	H.264 High profile
	Resolutions	Up to 1920 x 1080
		H.264 Up to 30fps with 1920 x 1080, H.264 Up to 30fps with VGA
	Frame Rate	MJPEG Up to 30fps with VGA resolution
		Support multi stream with H.264, MJPEG
	Video Streaming	Adjustable frame rate
	3	VBR / CBR in H.264
Video		Brightness, Contrast, Sharpness
		Day & Night
		Auto White Balance
	Image Setting	Auto Exposure
		Privacy Mask
		DSS, Corridor-view (in H.264), Mirror / V-Flip, etc.
	Backlight	WDR (Low / Middle / High)
	Shutter Speed	1/4 ~ 1/2000
	Noise Reduction	2D / 3DNR
	Security	Password protection
Matrical		User access log
Network		HTTPS encryption
	Supported Protocol	HTTP, HTTPS, DNS, RTSP, RTP, TCP, UDP, ICMP, DHCP
	Intelligent Video	Motion detection 12 x 12 blocks
0	Alarm Trigger	Motion detection
System	Video buffer	5MB pre-alarm and post-alarm-180sec
Integration	Firmware Upgrade	Remote upgrade via network
	API	CGI Interface document
	Etc	1 x Factory Reset Button
	EIC	
	Power Source	DC 12V / 1.5A, PoE (Power over Ethernet): 802.3af
Physical		DC 12V / 1.5A, PoE (Power over Ethernet) : 802.3af Max. 7W with IR On (External DC 12V used)
Physical	Power Source Power	

Environment	Operating Temperature	-10 degree ~ 50 degree Celsius (-14F ~ 122F)
	Storage Temperature	-20 degree ~ 60 degree Celsius (-4F ~140F)
Software	Included Software	IP Scanner (Windows only)
Package	Package Contents	Network Camera, Use Manual, External Power Adaptor(option)

 $[\]mbox{\%}$ Specifications are subject to change without prior notice for improvement.

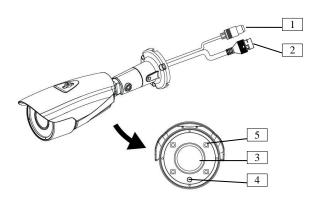
2. NAME AND FUNCTION OF EACH PART

2.1 Package Contents

APPEARANCE	DESCRIPTION	
	IP Camera x 1	
	Installation Guide x 1	
	Tapping screw (Ø4 x 30) x 3	
999	Plastic anchor x 3	
	L-Wrench (3mm) x 1	
	CD x 1	
Junction Adaptor		
	Top Rubber x 1	
	Top Adapter Plate x 1	
Junction Box		
	Top Rubber x 1	
	Junction Box x 1	
	Sponge x 1	

4949	Tapping screw (Ø4 x 30) x 4
	Plastic anchor x 4
888	Screw PH (M4 x 8) x 3
0000	Screw PH (M4 x 12) x 4

2.2 Name and Function

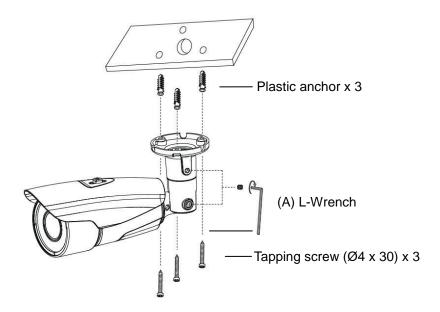


NO.	ITEM	DESCRIPTION
1	Power Connector	DC12V
2	Network and POE Connector	POE (Power over Ethernet) and LAN cable
3	Lens	3 ~ 12mm Vari-focal Motorized Megapixel Lens
4	Illumination sensor	Control IR LED by sensing light
5	IR LED	Infrared Hi-power LED

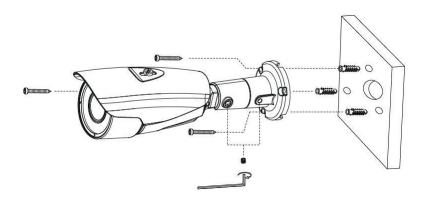
3. INSTALLATION

3.1 How to mount to ceiling / wall

· Ceiling

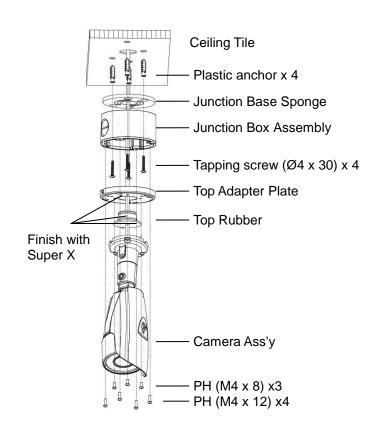


· Wall



- ① Drill three screw holes on the wall plate to fix three plastic anchors (supplied) in the holes.
- ② Fix the plastic anchors in the holes.
- 3 Position the bracket on the screw points.
- $\ensuremath{\mathfrak{4}}$ Fix the bracket by tightening the screws.
- 5 Slightly loosen L-Wrench (A) then adjust the direction of the camera and then tighten bolt the nut.

· Ceiling_Junction Box

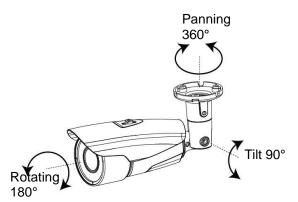


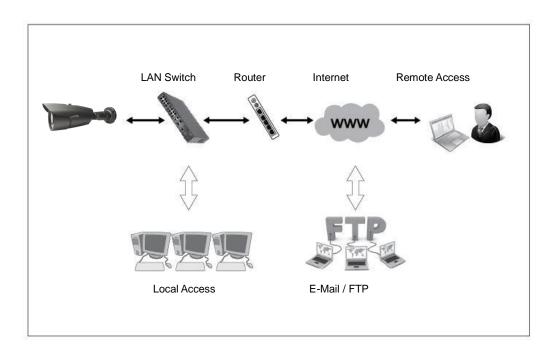
3.2 3-Axis Adjustment

- Panning 360°
 Slightly loosen Pan Bracket nut then adjust pan of the camera and tighten the Bracket nut.
- ② Tilt 90° Slightly loosen Tilt bolt then adjust tilt of the camera and tighten the bolt firmly.
- ③ Rotation 180°
 Slightly loosen Tilt bolt then adjust rotation of the camera and tighten the bolt firmly.



3.3.1 Installation Example





3.3.2 Connecting to the Network

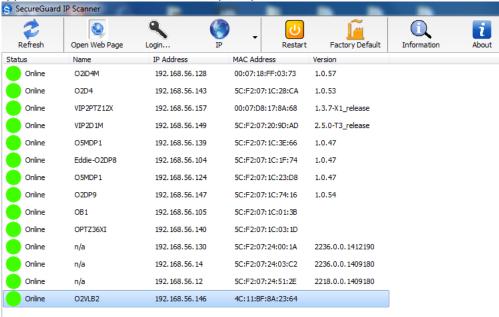
Open up IP Scanner.

IP Scanner can search for the device on the local network.

Please note that only devices that are on the same subnet can be discovered.

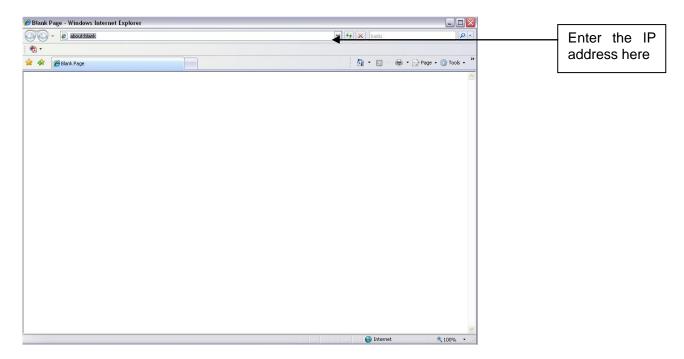
The device is set to DHCP mode by default.

In the device list, you can view the IP address, model number, and MAC address of each device. Select the applicable device and double click to open up the web viewer.



3.3.3 Accessing the Camera's Web Setup Page

1) Open the browser and enter the camera's IP address in the address bar or double click the device in IP Scanner.



- 2) Enter the user name and password when prompted.
- 3) Default user name is **admin** and password is **1234**.
- 4) If prompted for installation of the Active-X plug-in, allow the installation. Active-X is needed to view video from Internet Explorer.

4. DIMENSION (mm)

