

E92

3MP Indoor Mini Dome with Basic WDR, Fixed lens Hardware User's Manual (PoE)

Ver. 2013/02/04





Table of Contents

0. Precautions

1. Introduction

Package Contents	4
Features and Benefits	5
Safety Instructions	6
Physical description	7
Installation Procedure	8
Surface Mount	8
Gang Box Mount	10
Adjust Viewing Angle and Focus	12
Basic Connections	14
Product Specification	15

2. Accessing Camera

16

3

4



0. Precautions

Read these instructions

You should read all the safety and operating instructions before using this product.

Heed all warnings

You must adhere to all the warnings on the product and in the instruction manual. Failure to follow the safety instruction given may directly endanger people, cause damage to the system or to other equipment.

Servicing

Do not attempt to service this video device yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

Trademarks

All names used in this manual are probably registered trademarks of respective companies.

Liability

Every reasonable care has been taken during the writing of this manual. Please inform your local office if you find any inaccuracies or omissions. We cannot be held responsible for any typographical or technical errors and reserve the right to make changes to the product and manuals without prior notice.

FCC/CE Regulation

NOTE: This equipment has been tested and found to comply with the 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 users will be required to correct the interference at their own expense.

3



1. Introduction

Package Contents

E92



Accessories



Lens Focus Tuner



Quick Installation Guide



Warranty Card



Drill Template





Features and Benefits

This is a cutting-edge digital video surveillance camera. It can compress and transmit real time images with outstanding image quality through a standard TCP/IP network. This camera is your best choice to build an intelligent IP surveillance system.

H.264 High Profile/MJPEG Multi-Codec Dual Streaming

This device supports 2 compression formats, H.264 High Profile and MJPEG. It brings superior image quality at 15 frames per second up to resolution of 2048 x 1536 pixels. In Full HD 1080p (1920 x 1080 pixels), 720p (1280 x 720 pixels) and VGA (640 x 480 pixels) resolution the device reaches 30 frames per second.

Built-in Hardware Motion Detection

No more external motion sensors are required. You may assign up to 3 video motion detection areas. By tuning the object size and sensitivity, it will reliably detect objects passing though is view. Hardware motion detection also offers better sensitivity and faster response time than software motion detection.

Powerful Surveillance Software

To extend the capabilities of the IP Camera series, a powerful surveillance program is available to download for free from our website.

http://www.acti.com/product/category/Video_Management_System

Users can easily use an existing PC as a digital video recorder. Scheduled recording and manual recording keep every important video recorded in the local hard disk. Reliable and accurate motion detection with instant warning enables immediate response in every condition. Quick and simple search and playback function lets you easily find the images and video you want.

Software Development Kit Support

This IP Camera can be integrated or controlled by applications from third party software developers. Software developers can save considerable efforts by using our Streaming Library or ActiveX control. Please contact us for details on integration support.



Safety Instructions

Cleaning

Disconnect this video product from the power supply before cleaning.

Attachments

Do not use attachments not recommended by the video product manufacturer as they may cause hazards.

Water and Moisture

Do not use this video product near water, for example, near a bathtub, washbowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool and the like.

Don't use accessories not recommended by the manufacturer

Only install this device in a dry place protected from weather

Servicing

Do not attempt to service this video product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

Damage Requiring service

Disconnect this video product from the power supply immediately and refer servicing to qualified service personnel under the following conditions.

- 1) When the power-supply cord or plug is damaged
- 2) If liquid has been spilled, or objects have fallen into the video product.
- 3) If the video product has been directly exposed to rain or water.
- 4) If the video product does not operate normally by following the operating Instructions in this manual. Adjust only those controls that are covered by the instruction manual, as an improper adjustment of other controls may result in damage, and will often require extensive work by a qualified technician to restore the video product to its normal operation.

Safety Check

Upon completion of any service or repairs to this video product, ask the service technician to perform safety checks to determine if the video product is in proper operating condition.



Physical description



1) Power LED

LED light will light up while the power is on. LED light will light off after the unit has successfully completed the boot process.

2) Ethernet Port

The IP device connects to the Ethernet via a standard RJ45 connector. Supporting NWAY, this IP device can auto detect the speed of local network segment (10Base-T/100Base-TX Ethernet).

3) Reset Button

Step 1: Press and continue to hold the Reset Button for 15 seconds (with a sharp tipped object, like a pen.) while the power of the unit is on.

Step 2: The Ethernet LED light will turn off for about 1~2 seconds and flash on for another second. By this time the reset to default operation is already completed. You may then release the reset button. This length of time fluctuates slightly with the environment. The unit will come back on and stay on after a few more seconds. The unit will start up with factory default settings automatically.



Installation Procedure

Remove the cover of the camera by loosen the 3 screws holding it.



Surface Mount

Drill three holes with φ 3.5 on the ceiling according to the marks provided on the template.



Route cables through the ceiling, taking as a reference the Conduit Hole on the drilling template. Or you may take off the removable part from the cable exit hole at the rear of the cover by sliding it out from the cover to route the cable from the camera.





Use the camera body and locate the correct three screw holes.



Tighten the camera body to the ceiling using the 3 screws included.



Please make sure the screw is flat on the plate, protruding is incorrect.





Attach the cover back to the camera body and tighten the 3 screws.





Gang Box Adapter Mount

This camera can also be mounted using the Gang Box Converter accessory PMAX-0803 used for 3" and 4" indoor domes. However please note that if used in combination with this accessory, a part of the plate of PMAX-0803 will remain visible after installation as shown in the picture below.



First, locate the three screw holes on the accessory that can be used to attach this camera model.



Connect cables through the hole on PMAX-0803 accessory.





Tighten the camera body to the PMAX-0803 with the 3 screws included in the camera box.



Finally, put the cover back on, and tighten with the 3 screw holes on the camera body.





Adjust Viewing Angle and Focus



Remove each screw to take away the front cover of the camera.

Based on the live view from the camera, adjust the viewing angle with pan and tilt direction.





Attach the focus tuner on lens to adjust the focus of lens.



Remove the lens focus tuner.

Attach the dome cover to the camera and tighten using the 3 screws.





Basic Connections

Follow the procedures below to connect the IP device to the respective apparatuses.



Please use a PoE (Power over Ethernet) supported switch or injector:

- 1) Connect your IP Camera to the PoE Switch / Injector by CAT5 or CAT6 cables with RJ45 connector.
- 2) Connect your PoE Switch / Injector to PC with another CAT5 / CAT6 network cable.



Product Specification

	E92
Device	
Device Type	Fixed Indoor Dome Camera
Image Sensor	Progressive Scan CMOS
Day / Night	No
Minimum Illumination	Color: 0.1 lux at F2.0 (30 IRE, 2400°K)
Mechanical IR Cut Filter	No
IR Sensitivity Range	No
IR LED	No
Electronic Shutter	1/5 ~ 1/2,000 sec (manual mode); 1/5 ~ 1/10,000 sec (auto mode)
Lens	
Focal Length / Aperture	Fixed focal, f2.93 mm / F2.0
Iris	Fixed iris
Focus	Fixed focus
Lens Mount	Board Mount
Horizontal Viewing Angle	87.6°
Viewing Angle Adjustment	Pan: ±90°; Tilt: 0°- 90°
Video	
Compression	H.264 HP, MJPEG
Maximum Frame Rate vs. Resolution	15 fps at 2048 x 1536; 30 fps at 1920 x 1080; 30 fps at 1280 x 720; 30 fps at 640 x 480
Multi-Streaming	Simultaneous dual steams based on two configurations
Bit Rate	28 Kbps - 6 Mbps (per stream)
Bit Rate Mode	Constant, Variable
Image Enhancement	Basic WDR; White balance: automatic, hold, and manual; Brightness; Contrast; Sharpness(auto); Auto gain control; Digital noise reduction; Flickerless
Privacy Mask	4 configurable regions
Text Overlay	User defined text on video
Image Orientation	Image flip and mirror
Network	
Protocol & Service	TCP, UDP, HTTP, HTTPS, DHCP, PPPoE, RTP, RTSP, IPv6, DNS, DDNS, NTP, ICMP, ARP, IGMP, SMTP, FTP, UPnP, SNMP, Bonjour
Ethernet Port	1, Ethernet (10/100 Base-T), RJ-45 connector
Security	IP address filtering; HTTPS encryption;
occurry	Password protected user levels; Anonymous login; IEEE 802.1X network access control
• Alarm	
Alarm Trigger	Video motion detection (3 regions)
Alarm Response	Notify control Center; Change camera settings; Command other devices; E-mail notification with snapshots; Upload video, snapshot to FTP server
Interface	
Local Storage	MicroSDHC memory card slot (card not included)
General	
Power Source / Consumption	PoE Class 1 (IEEE802.3af) / 2.91W
Weight	202 g (0.445 lb)
Dimensions (Ø x H)	110 mm x 58 mm (4.3" x 2.3")
Mount Type	Surface
Operating Temperature	-10°C ~ 40°C (14°F ~ 104°F)
Operating Humidity	10% ~ 85% RH
Approvals	CE (EN 55022 Class B, EN 55024), FCC (Part15 Subpart B Class B)
 Integration 	
Unified Solution	Fully compatible with ACTi software
ISV Integration	Software Development Kit (SDK) available ; ONVIF compliant
Firmware Access Browser	Microsoft Internet Explorer 8.0 or newer (full functionality); Other browsers with VLC installed (partial functionality)



2. Accessing Camera

If you have DHCP server / router in your network:

Many network server / routers are able to automatically provide IP addresses through DHCP. If you are using such a network, just plug in your computer and IP Camera into the network and your IP device will acquire network address by itself. Find and access the device with our IP Utility program. You may download it at:

http://www.acti.com/product/detail/Software/ACTi_Utility_Suite

If you do <u>NOT</u> have DHCP server / router in your network:

- Configure your PC to use the same subnet by changing your PC's IP address to the subnet with prefix 192.168.0.XXX. The last number should be anything from 1 to 254 except 100 and other occupied IP addresses. Subnet mask should be 255.555.255.0.
- 2. The default IP used by this device is 192.168.0.100. Please make sure your PC is <u>NOT</u> using this address and that no two equipments use the same IP address in the network.
- Change your IP address by going to Control Panel ->Manage Network Connections -> Right click on the connection to change -> Option -> TCP/IP IPv4 Properties.



Internet Protocol (TCP/IP) Properties	<u>? ×</u>
General	
You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator fo the appropriate IP settings.	Please set the settings as below.
Obtain an IP address automatically	
Use the following IP address:	• IP address: 192.168. 0.xxx
IP address: 192 . 168 . 0 . 101	• Subnot model: 255 255 255
Subnet mask: 255 . 255 . 255 . 0	• Subliet mask: 255.255.255.
Default gateway:	0
C Obtain DNS server address automatically	(NOTE: yyy should be a number
General Use the following DNS server addresses:	
Preferred DNS server:	from 1 to 254 except 100, which is
Alternate DNS server.	used by the ID device. Places also
	used by the IP device. Please also
Advanced	make sure that no two equipments
OK Car	use the same IP address in the

- 4. Open Internet Explorer (Version 6.0 or above) , and type in the Default IP: 192.168.0.100
- 5. When you see the login window, please input default user and password: Default User: Admin Password: 123456

Web Con	figurator 🙀 ACTi
Account Password Language Login	gin admin •••••• English • Reset



6. After logging in, you will see the video from camera. To go to the main menu, click the "Setup" button on the top left.



If you are using a single camera, this is enough to access the device.

If you are using multiple devices, you need to change the current device to another unused IP address, so that when the next device is connected to the network, no two devices use the same IP. Please perform the following steps.

- 7. Go to IP Settings -> Connection Type
- 8. Change the IP mode to Static.
- 9. Change the IP to 192.168.0.101 or any other unused IPs. Do NOT use the PC's IP address or 192.168.0.100.). If this is not the first device you add to the network, please also avoid other devices' IPs.



	Web Configurator	
• *		
Host Date & Time Network	Connection Type*	
Connection Type DNS DDNS Video Event System Logout	 Dynamic IP Address Use host name Camera Static IP Address IP Address 172, 16, 26, 222 Subnet Mask 255, 255, 0 Octurer 473, 46, 26, 263 	
	PPPoE User Name Password Apply Reset	

- 10. Click "Apply"
- 11. Please go to System -> Save & Reboot, and click "Apply". Internet Explorer will close after a few seconds. This is normal.

	Web Configurator	ACTi
Host Date & Time Network	Save & Reboot	
Video Video Video System Video Video System Video Vid	Click apply to save all settings and reboot this device. Please wait 30 seconds for system reboot. And the window will close in 3 seconds.	
Firmware Upload Save & Reboot Logout		

- 12. Wait for 30 seconds, and open IE again to connect to the **new IP**. (In this example, 192.168.0.101). For the second device or more you add into the network, please type the correct IP.
- Adjust the default Video setting by going to Video -> Video
 Please refer the firmware manual for the detail information.