

Illustra Essentials Indoor HD Mini Dome User Manual

8200-1102-06 B0

Notice

Please read this manual thoroughly and save it for future use before attempting to connect or operate this unit.

The information in this manual was current when published. The manufacturer reserves the right to revise and improve its products. All specifications are therefore subject to change without notice.

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1. Electrical safety

All installation and operation should conform to your local electrical safety codes.

The power shall conform to the requirement in the SELV (Safety Extra Low Voltage) and the Limited power source is rated 12V DC or 24V AC in the IEC60950-1. (Refer to general introduction)

Please note: Do not connect two power supplying sources to the device at the same time; it may result in device damage! The product must be grounded to reduce the risk of electronic shock.

We assume no liability or responsibility for all the fires or electrical shock caused by improper handling or installation.

We are not liable for any problems caused by unauthorized modification or attempted repair.

2. Transportation security

Heavy stress, violent vibration or water splash are not allowed during transportation, storage and installation.

3. Installation

Do not apply power to the camera before completing installation.

Please install the proper power cut-off device during the installation connection.

Always follow the instruction guide the manufacturer recommended.

4. Qualified engineers needed

All the examination and repair work should be done by the qualified service engineers.

We are not liable for any problems caused by unauthorized modifications or attempted repair.

5. Environment

This series network camera should be installed in a cool, dry place away from direct sunlight, inflammable, explosive substances and etc.

Please keep it away from the electromagnetic radiation object and environment.

Please make sure the CCD (CMOS) component is out of the radiation of the laser beam device. Otherwise it may result in CCD (CMOS) optical component damage.

Please keep the sound ventilation.

Do not allow the water and other liquid falling into the camera.

Thunder-proof device is recommended to be adopted to better prevent thunder.

The grounding studs of the product are recommended to be grounded to further enhance the reliability of the camera.

6. Daily Maintenance

Please shut down the device and then unplug the power cable before you begin daily maintenance work.

Do not touch the CCD (CMOS) optic component. You can use the blower to clean the dust on the lens surface.

Always use the dry soft cloth to clean the device. If there is too much dust, please use the water to dilute the mild detergent first and then use it to clean the device. Finally use the dry cloth to clean the device.

Please put the dustproof cap to protect the CCD (CMOS) component when you do not use the camera.

Dome enclosure is the optical component, do not touch the enclosure when you are installing the device or clean the enclosure when you are doing maintenance work. Please use professional optical clean method to clean the enclosure. Improper enclosure clean method (such as use cloth) may result in poor IR effect of camera with IR function.

7. Accessories

Be sure to use all the accessories recommended by manufacturer.

Before installation, please open the package and check all the components are included.

Contact your local retailer ASAP if something is broken in your package.

Accessory Name	Amount
Network Camera Unit	1
Quick Start Guide	1
Installation Accessories Bag	1
CD	1

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Overview

This series network camera integrates the traditional camera and network video technology. It adopts audio and video data collection, transmission together. It can connect to the network directly without any auxiliary device.

This series network camera uses standard H.264 video compression technology and MJPEG audio compression technology, which maximally guarantee the audio and video quality.

This series network camera enclosure has the strong resistance capacity, which can guarantee the proper work performance under heavy strike. It supports real-time monitor and motion detect function.

It can be used alone or used in a network area. When it is used lonely, you can connect it to the network and then use a network client-end. Due to its multiple functions and various uses, this series network camera is widely used in many environments such office, bank, road monitor and etc.

Features

User Management	 Different user rights for each group, one user belongs to one group. The user right shall not exceed the group right.
Storage Function	 Support central server backup function in accordance with your configuration and setup in schedule setting Support record via Web and the recorded file are storage in the client-end PC. Support network storage such as FTP.
Alarm Function	 Real-time respond to video detect as user pre-defined activation setup and exert corresponding message in screen and audio prompt(allow user to pre-record audio file) Real-time video detect: motion detect, camera masking. Can generate an alarm when network abnormal, Micro SD card abnormal event occurred.
Network Monitor	 Network camera supports one-channel video data transmit to network terminal and then decode. Delay is within 270ms (network bandwidth support needed) Max supports 20 connections. Adopt the following audio and video transmission protocol: HTTP, TCP, UDP, RTP/RTCP, RTSP and etc. Support web access, widely used in WAN.
Network Management	 Realize network camera configuration and management via Ethernet. Support device management via web or client-end. Support various network protocols.
Power	 External power adapter DC12V Support PoE. CAUTION Do not connect these two power supplying sources to the device at the same time; it may result in device damage!
Assistant Function	 Log function Day/Night mode auto switch. Backlight compensation: screen auto split to realize backlight compensation to adjust the bright. Support digital WDR. Support system resource information and running status real-time display. Support video watermark function to avoid vicious video modification. Support electronic shutter and gain setup. Support dual bit stream, support ACF.

Performance

Model Parameter		IES01CFACWSY			
	Main Processor	High performance DSP			
(0	OS	Embedded LINUX			
System	System Resources	Support real-time network, local record, and remote operation at the same time.			
ы	User Interface	Remote operation interface such as WEB, DSS, PSS			
	System Status	SD card status, bit stream statistics, log, and software version.			
	Image Sensor	1/4-inch CMOS			
	Pixel	1280(H)*720(V)			
	Day/Night Mode	Support day/night mode switch.			
	Gain Control	Fixed/Auto			
	White Balance	Manual/Auto			
	BLC	Off/BLC/WDR (1-100)/HLC(anti-flicker is outdoor and is valid only when exposure mode is auto with range 1-100)			
	Electronic	Manual/Auto			
	Shutter	PAL: It ranges from 1/3 to 1/10000.			
		NTSC: It ranges from 1/4 to 1/10000.			
	Video Compression Standard	H.264/H.264B/MJPEG			
<u>S</u>		PAL:			
Video Parameter		Main stream (1280*720@25fps)			
P		Extra stream (704*576@25fps) NTSC:			
Iran	Video Frame	NISU:			
nete	Rate	Main stream (1280*720@30fps)			
ਦ					
		Extra stream (704*480@30fps)			
		H.264: 16Kbps-8192Kbps, adjustable			
	Video Bit Rate	MJPEG adjustable and bit rate is adjustable.			
		Support customized setup.			
	Video Flip	Support mirror function. Support flip function.			
	Snapshot	Max 1f/s snapshot. File extension name is JPEG.			
	Privacy Mask	Supports max 4 privacy mask zones			
	Video Setup	Support parameter setup such as bright, contrast.			
	Video Information	Channel title, time title, motion detect, privacy mask.			
	Lens	2.8mm/3.6mm/6mm/8mm MP			
	Lens Interface	M12. Lens is the default accessories			

Please refer to the following sheet for network camera performance specification.

Video	Motion Detect	396 (18*22) detection zones; sensitivity level ranges from 0 to 100; area threshold ranges from 0 to 100. Activation event: video storage, image snapshot, log, email function and etc.	
ŏ	Video Loss	Activation event: video storage, image snapshot, log, email function and etc.	
	Wire Network	1-channel wire Ethernet port, 10/100 Base-T Ethernet	
Z	Network Protocol	Standard HTTP, TCP/IP, IPv4/IPv6, ARP, IGMP, ICMP, RTSP, RTP, UDP, SMTP, FTP, DHCP, DNS, DDNS, PPPOE, UPNP, NTP, Bonjour, SNMP.	
Network	Platform interface Standard	ONVIF	
	Remote Operation	Monitor, system setup, log information, maintenance , upgrade and etc	
AUX Interface	Reset	Built-in RESET button	
	Power	Support DC12V and PoE Note: 05 series do not support PoE.	
Ge	Power Consumption	DC 12V 3.1W MAX	
neral	Working Temperature	-30 ℃ ~+60 ℃	
General Parameter	Working Humidify	≤95%	
neter	Dimensions(mm)	¢110×54	
	Weight	200g(excluding package)	
	Installation	Installed in the places such as wall or the ceiling	

Model Parameter		IES02CFACWSY		
	Main Processor	High performance DSP		
(0	OS	Embedded LINUX		
System	System Resources	Support real-time network, local record, and remote operation at the same time.		
³ User Interface		Remote operation interface such as WEB, DSS, PSS		
	System Status	SD card status, bit stream statistics, log, and software version.		
	Image Sensor	1/3-inch CMOS		
	Pixel	2048(H)*1536(V)		
<	Day/Night Mode	Support day/night mode switch.		
'ide	Gain Control	Fixed/Auto		
Video Parameter	White Balance	Manual/Auto		
am	BLC	Off/On		
eter	Electronic Shutter	Manual/Auto/Low noise/Low motion blur PAL: It ranges from 1/3 to 1/10000. NTSC: It ranges from 1/4 to 1/10000.		
	Video Compression	H.264/H.264B/H.264H/MJPEG		

	Standard	
		PAL: Main stream (1920*1080@25fps) Extra stream (704*576@25fps)
	Video Frame Rate	NTSC: Main stream (1920*1080@30fps)
		Extra stream (704*480@30fps)
	Video Bit Rate	H.264H: 16Kbps-8192Kbps, adjustable MJPEG adjustable and bit rate is adjustable. Support customized setup.
	Video Flip	Support mirror function. Support flip function.
	Snapshot	Max 1f/s snapshot. File extension name is JPEG.
	Privacy Mask	Supports max 4 privacy mask zones
	Video Setup	Support parameter setup such as bright, contrast.
	Video Information	Channel title, time title, motion detect, privacy mask.
	Lens	2.8mm/3.6mm/6mm. fixed focus.
	Lens Interface	M12. Lens is the default accessories
Video	Motion Detect	396 (18*22) detection zones; sensitivity level ranges from 0 to 100; area threshold ranges from 0 to 100. Activation event: video storage, image snapshot, log, email function and etc.
Record	Record Priority	Manual >Video detect>Schedule
	Wire Network	1-channel 10/100M Ethernet, RJ45 port
Netwo	Network Protocol	Standard HTTP, TCP/IP, IPv4/IPv6, ARP, IGMP, ICMP, RTSP, RTP, UDP, SMTP, FTP, DHCP, DNS, DDNS, PPPOE, UPNP, NTP
r ,	Remote Operation	Monitor, system setup, log information, maintenance , upgrade and etc
AUX Interface	Reset	Built-in RESET button
	Power	Support DC12V and PoE
٦ G	Power Consumption	DC 12V 3W MAX
General Parameter	Working Temperature	-30℃~+60℃
Para	Working Humidify	≤95%
mete	Dimensions(mm)	¢110×54
7	Weight	200g(excluding package)
	Installation	Installed in the places such as wall or the ceiling
	Weight	0.25Kg
	Installation	Installed in the places such as wall or the ceiling

Structure

Please refer to the following figure for detailed information. See Figure 2-1.

Note:

Figures in this chapter are for reference only.. Please use figure according to the actual product.

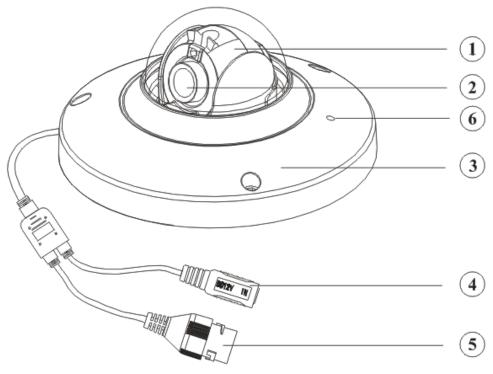


Figure 2-1 Structure

Please refer to the following sheet for detailed structure information.

SN	Name	
1	X-Y-Z rotation module	
2	Device lens	
3	Dome camera enclosure	

Please refer to the following sheet for detailed port information.

SN	Name	Function
4	Power input port	Connect to the DC 12+ power to input the power.

		Network data input, output and PoE.
5	Network port	Note: Some devices do not support PoE. Before making crystal head, pull the anti-dust, waterproof cover through network cable.
6	MIC hole	Audio input

Dimensions

Please refer to the following figure for the dimension information. The unit is mm. See Figure 2-2 through Figure 2-4.

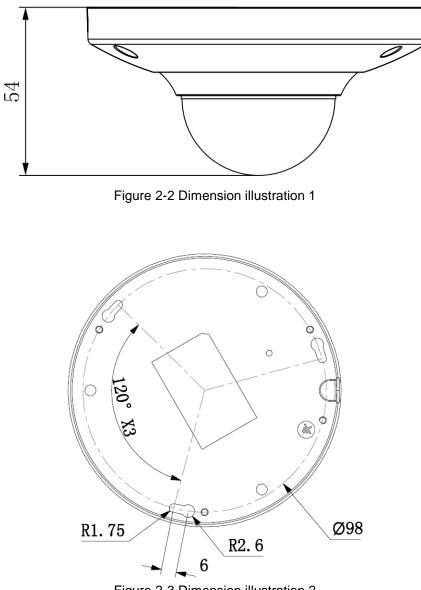


Figure 2-3 Dimension illustration 2

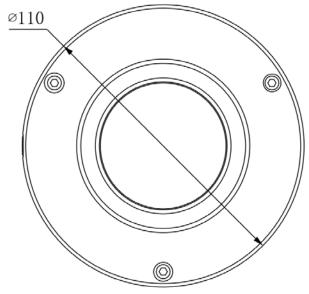


Figure 2-4 Dimension illustration 3

Note

Before the installation, please make sure the installation environments can at least support 3x weight of the camera.

Please follow the steps listed below to install the device.

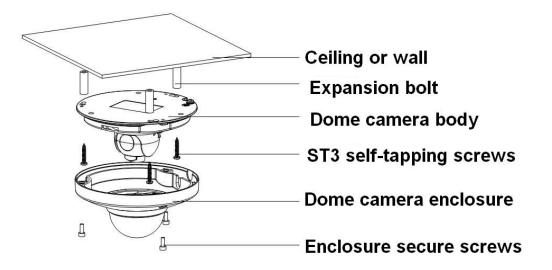


Figure 3-1 Device installation illustration 1

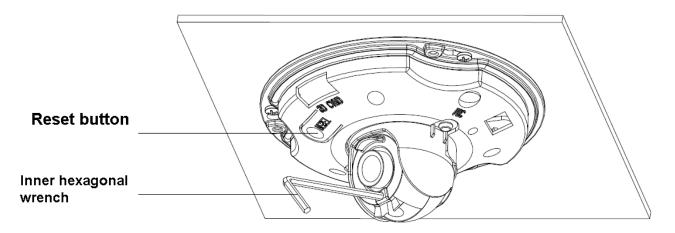


Figure 3-2 Device installation illustration 2

Step1

Use the inner hexagonal wrench (provided) to loose the three inner hexagon screws in the dome cover and then open the cover.

Step 2

Please take the installation map in the accessories bag, and then paste it on the ceiling or the wall according to your monitor area requirements.

Step 3

Draw and then dig three plastic expansion bolts holes on ceiling or other installation surface and then insert three expansion bolts in the holes. Secure these three bolts firmly.

Note:

Please make a "cable exit hole" in the surface according to the installation map if you want to draw out the cable from the top of the installation surface.

You need to use the proper tool to open up the side port of the U-cable channel of the dome camera pedestal if you want to draw out the cable from the side port of the cable channel when you are installing the device cable. And then you can draw out the cable from the cable channel of the pedestal.

Step 4

Adjust the device installation pedestal to the proper position and then draw the cable through the cable exit you just dug in the ceiling (wall). Line up the TOP direction of the device to the installation map and then line up the three screw holes in the device pedestal to the three plastic expansion bolt holes in the installation position. Put the three self-tapping screws in the three plastic expansion bolts firmly. Now the dome camera is secure in the installation surface.

Step 5

Loosen the two M3 secure screws of the lens rotation structure (Do not remove, loosen a little bit will be OK.). Use the inner hexagonal wrench to insert them to the inner hexagonal holes and then use the wrench to turn the lens. Adjust the lens to the proper monitor angle and then secure the screws of the lens rotation structure. The lens adjust angle ranges are: flip (0°~+75°), video pan rotation (-15°~+15°), video rotation angle(-15°~+15°).

Step 6

Line up the dome camera cover to the cable exits and put the cover back. Use the inner hexagonal wrench to secure the three inner hexagonal screws firmly. Now the installation completed.

Note:

If you want to restore default settings of the device, open device front cover, and press Reset button in Figure 3-2 with power on for 10s.

If you want to use WPS function of device, open device front cover, and press Reset button in Figure 3-2 with power on for 1-2 seconds, then press the WPS button of the router, generally the device will connect to corresponding router within one minute (supported by some series)

Overview

Quick configuration tool can search current IP address, modify IP address. At the same time, you can use it to upgrade the device.

Please note the tool only applies to the IP addresses in the same segment.

Operation

Double click the "ConfigTools.exe" icon, you can see an interface is shown as in Figure 4-1.

In the device list interface, you can view device IP address, port number, subnet mask, default gateway, MAC address and etc.

SN	IP Address	Port	Subnet Mask	Default Gateway	Mac Address
l)	192.168.1.108	37777	255.255.255.0	192.168.1.1	90:02:a9:7b:50
•	You can click "login" button .				

Figure 4-1 Search interface

Select one IP address and then right click mouse, you can see an interface is shown as in Figure 4-2.

Select the "Open Device Web" item; you can go to the corresponding web login interface.

SN	IP Address		Port	Subnet Mask	Default Gateway	Mac Address
1	192.168.1.108	Open Device Web	31117	255.255.255.0	192.168.1.1	90:02:49:76:5
د			mu.			6

Figure 4-2 Search interface 2

If you want to modify the device IP address without logging in the device web interface, you can go to the configuration tool main interface to set.

In the configuration tool search interface (Figure 4-1), please select a device IP address and then double click it to open the login interface. Or you can select an IP address and then click the Login button to go to the login interface. See Figure 4-3.

In Figure 4-3, you can view device IP address, user name, password and port. Please modify the corresponding information to login.

Please note the port information here shall be identical with the port value you set in TCP port in Web Network interface. Otherwise, you cannot login the device.

If you are using device background upgrade port 3800 to login, other setups are all invalid.

Login		X
IP Address:	192.168.1.108	
User Name:	admin	
Password:	****	
Port:	37777	
	Login Cancel	

Figure 4-3 Login prompt

After you logged in, the configuration tool main interface is shown as below. See Figure 4-4.

	DHCP Enable IPv4	•	
IP Address:	192.168.1.108		
Subnet Mask:	255.255.0.0		
Gateway:	10.15.0.1		
Mac Address:	90:02:a9:7f:d8:21		

Figure 4-4 Main interface

This series network camera products support the Web access and management via PC.

Web includes several modules: Monitor channel preview, system configuration, alarm and etc.

Network Connection

Please follow the steps listed below for network connection.

- Make sure the network camera has connected to the network properly.
- DHCP is enabled by default.
- Please set the IP address, subnet mask and gateway of the PC and the network camera respectively. Network camera default IP address is 192.168.1.168. Subnet mask is 255.255.255.0. Gateway is 0.0.0.0
- Use order ping ***.***.***(* network camera address) to check connection is OK or not.

Login and Main Interface

Open IE and input network camera address in the address bar. See Figure 5-1.

- e absoltiblank	I I I I I I I I I I I I I I I I I I I		Input your IP
ð			address here
🚱 🍎 Blank Page	<u>⊜</u> •⊠ ⊕•⊡	Page - 💮 Tools - **	audress here
		1	
	🚱 internet	4 , 100% •	

Figure 5-1 IP address

The login interface is shown as below. See Figure 5-2.

Please input your user name and password.

Default factory name is admin and password is admin.

Note

For security reasons, please modify your password after you first login.

IP Camera
Login Cancel

Figure 5- 2 Web login

After you successfully logged in, please install WEB plug-in unit. Please refer to the Web Operation Manual included in the resource CD for detailed operation instruction.

See Figure 5-3.

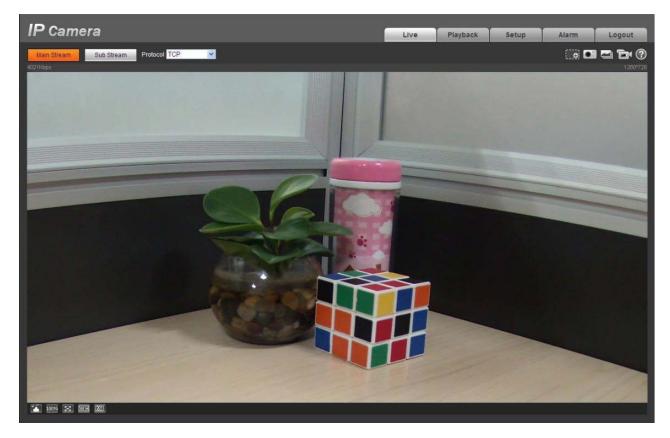


Figure 5-3 Web monitoring window

Bug	
I can not boot up the device.	Please click RESET button for at least five seconds to restore factory default setup.
I can not upgrade the device via network.	When network upgrade operation failed, you can use port 3800 to continue upgrade.
Save setup	Please use active device for the audio monitor input, otherwise there is no audio in the client-end.
Power adapter	General power adapter work temperature ranges from 0°C to 40°C. It may result in unstable performance if it works in the extremely too hot or too cold environments. In this case, you may need to use the industrial-level power adapter.

Appendix

Toxic or Hazardous Materials or Elements

	Toxic or Hazardous Materials or Elements					
Component Name	Pb	Hg	Cd	Cr VI	PBB	PBDE
Circuit Board Component	0	0	0	0	0	0
Device Construction Material	0	0	0	0	0	0
Wire and Cable	0	0	0	0	0	0
Packing Components	0	0	0	0	0	0
Accessories	0	0	0	0	0	0

O: Indicates that the concentration of the hazardous substance in all homogeneous materials in the parts is below the relevant threshold of the SJ/T11363-2006 standard.

X: Indicates that the concentration of the hazardous substance of at least one of all homogeneous materials in the parts is above the relevant threshold of the SJ/T11363-2006 standard. During the environmental-friendly use period (EFUP) period, the toxic or hazardous substance or elements contained in products will not leak or mutate so that the use of these (substances or elements) will not result in any severe environmental pollution, any bodily injury or damage to any assets. The consumer is not authorized to process such kind of substances or elements, please return to the corresponding local authorities to process according to your local government statutes.

Note

- This user's manual is for reference only. Slight difference may be found in user interface.
- All the designs and software here are subject to change without prior written notice.
- All trademarks and registered trademarks mentioned are the properties of their respective owners.
- If there is any uncertainty or controversy, please refer to the final explanation of us.
- Please visit our website for more information.