





Day & Night 5MP HD IP Camera



IPG1052ES
Instruction Manual

IMPORTANT SAFEGUARDS

	<div>CAUTION</div> <div>RISK OF ELECTRIC SHOCK DO NOT OPEN</div>	
<p>CAUTION : TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK) NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.</p>		

GRAPHIC SYMBOL EXPLANATION

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.



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 unit.



<p>CAUTION</p> <p>RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE.</p> <p>DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS</p>
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CAUTION

⊗ **Do not drop or strike this equipment.**

Sensitive electronics inside are vulnerable to excessive shock.

⊗ **Do not install the equipment near any naked flames or heat sources.**

Excessive heat could damage this unit.

⊗ **Do not expose this unit to rain or excessive moisture, avoid smoke and dust.**

Please the camera in an environmental housing for protection.
If the camera gets wet, unplug it and have it checked by qualified service personnel.

⊗ **Do not cover cloth or to install this unit in poorly ventilated places.**

This may lead to overheating.

⊗ **Do not continue to operate if there appears to be fault.**

If the unit ceases to function, contact qualified service personnel for help.

⊗ **Do not touch the power connection with wet hands.**

Risk of short circuit or electric shock.

⊗ **Do not damage the power cord or leave it under pressure.**

Risk of fire or shock circuit.

CONGRATULATIONS

Thank you for purchasing this D/N Megapixel HD IP Camera. You now own one of the many fine network products we manufactured. This product has been carefully inspected under rigid quality control and should reach you in perfect condition. With reasonable care, it will provide years of reliable performance.

We recommend that you read this installation and operation manual thoroughly before installing and operation your new system.

Here you will find all the information you need to set up and use the system. If any questions are not answered in the manual, please contact your dealer.

Before proceeding, please read and observe all instructions and warnings contained in this manual. Retain this manual with the original bill of sale for future reference and, if necessary, warranty service.

When unpacking your new camera, check for missing or damaged items. If any item is missing, or if damage is evident, **DO NOT INSTALL OR OPERATE THIS PRODUCT**. Contact your dealer for assistance.

Executive Summary

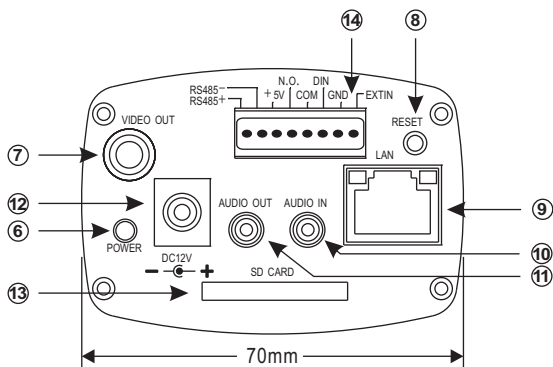
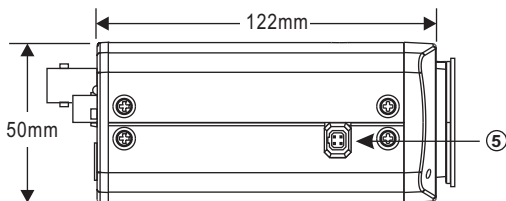
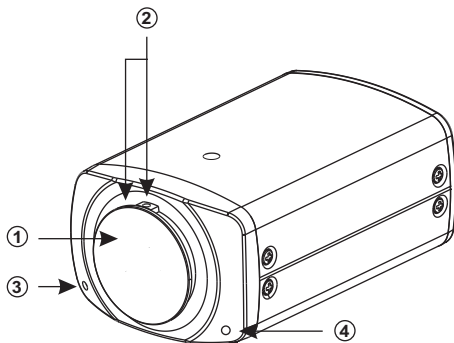
IPG1052ES series is an 5MP Day&Night HD IP Camera, built-in H.264 AVC(Advanced Video Coding) video compression. H.264 AVC video compression engine supports high definition video quality, 5MP(2592x1944) resolution, bandwidth efficiency with PPPoE and DDNS.

Also it provides higher bit rate of internet and diverse alarm functions such as movement video detection e-mail or FTP.

Moreover, IPG1052ES series can do remote surveillance with iPad, iPhone or Android cell phone. The software R&D engineer can use HTTP protocol(HTTPAPI) or ONVIF protocol to develop related software, and integrate them with existing application software system.

IPG1052ES series is ideal solution for remote video monitoring via internet.

PART DESCRIPTION & DIMENSION



1. LENS MOUNT CAP

Prevent damages to the image sensor and to keep dust away.

2. FOCAL LENGTH ADJUSTMENT RING AND LOCKING SCREW

Use this ring to adjust the back-focal distance or picture focus. Rotate this ring clockwise or counterclockwise for a CS-mount lens.

3. MICROPHONE

Built-in highly sensitive capacitive microphone.

4. LIGHT SENSOR

Day and night function auto mode detect.

5. AUTO IRIS CONNECTOR(DC Type)

Supplies control signals to an auto iris lens(jack not supplied).

6. POWER LED

Power ON/OFF indicator.

7. LIVE VIDEO RCA JACK

Plug the video input of monitor to the RCA jack and adjust focus and zoom.

8. RESET KEY

To restore the server to factory default setting.

9. RJ-45 NETWORK CONNECTOR AND INDICATOR LEDS

Green(LINK): While cable of network is connecting the LED is light.

Orange(ACT): When data is communicating, the LED is flashed.

(This network camera support PoE.)

10. AUDIO INPUT 3.5mm PHONE JACK

Can be accessed by an external microphone or audio input signal.

(Choose from the audio settings menu to switch)

11. AUDIO OUTPUT 3.5mm PHONE JACK

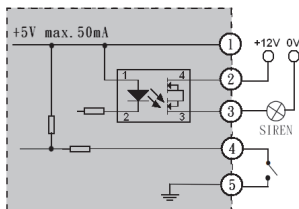
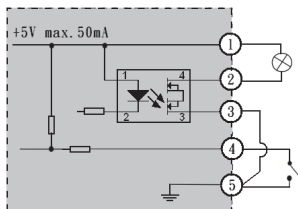
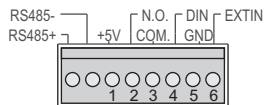
12. DC12V POWER INPUT JACK

DC12V ($\pm 10\%$) power input.

13. SD CARD SLOT

This network camera is compliant with SD/SDHC card.

14. ALARM IN/OUT, EXTIN & RS-485 TERMINAL



- +5V Output: Max. output 50mA.
- N.O./COM.: Max. load +60V/100mA.
- DIN terminal can be set either N.O. (normally open) or N.C. (normally close) mode.
- EXTIN: IR cut removable external control input.

◆ IR CUT REMOVABLE EXTERNAL CONTROL SETUP

Access into web page setup menu, under schedule menu, enable External Control option.

External input mode: normally open(NO) or normally closed(NC) mode is selectable.

External input dwell: may select 1, 2, 5, 10, 15, 20, 30 seconds delay time interval to avoid wrong operation caused by headlight of the front light.

IR Cut Removable

Schedule

- ☒ Auto
 - Enable ☐
 - Switch Delay Time: 2 Sec.
- ☐ Day
 - Enable ☐
- ☐ Night
 - Enable ☐
- ☐ Activation Schedule
 - Enable ☐
 - Day to Night Time: 0 : 0
 - Night to Day Time: 0 : 0
- ☐ External Control
 - Enable ☒
 - External Input Mode: NO ☒ NC ☐
 - External Input Dwell: 2 Sec.

Submit

◆ AUDIO INPUT MODE SETUP

Access into web page setup menu, under audio adjustment setup menu, may select Audio Input mode to either camera front microphone or rear's Audio In (Line IN).

Audio

Audio Adjust

- MIC Volume: 50 Scope: 1 ~ 100
- Audio Input Mode: Line In ☐ MIC In ☒
- Audio Input Gain: +20 dB
- Audio Output Volume: 50 Scope: 1 ~ 100
- Audio Coding Type: G711 u-law
- Sampling Rate: 8000 Hz
- Bit Rate: 64 kbit/s

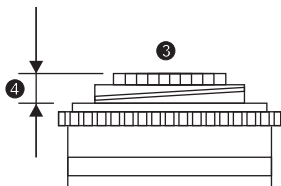
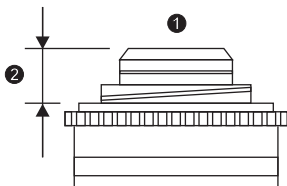
Submit

INSTALLATION

● SUITABLE LENSES

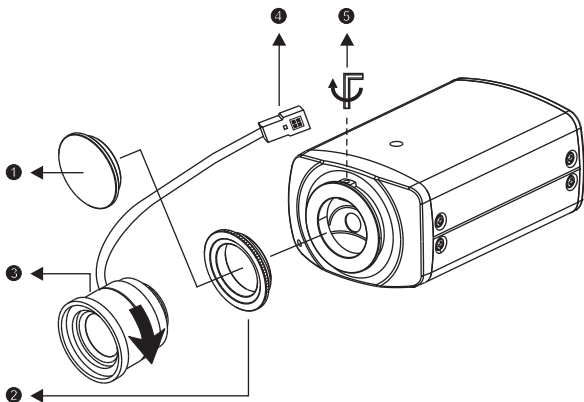
The lens must be either a C or CS mount type. The protrusion behind the mounting surface must be within the following limits:

①	C - mount lens	③	CS - mount lens
②	9mm or less	④	4mm or less



● FITTING THE LENS

- ① Remove the lens mount cap.
- ② Screw in the C mount ring(not supplied), until it is secured. When using a CS mount lens skip step2.
- ③ Screw in the lens, until it is secured.
- ④ Insert the lens plug in the AUTO IRIS connector, when fitting a manual-iris lens, skip step4.
- ⑤ Adjust the focal length by turning the focal length adjustment ring.
(Using hexagon screw driver, loose and tighten the screw.)

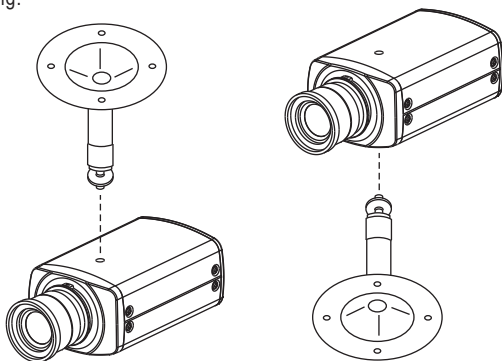


CAUTION

Keep the lens mount cap on the camera when not attaching a lens.

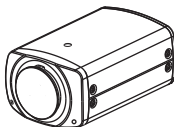
● FITTING THE CAMERA

1. The mounting hole on the top or bottom of the camera.
2. Tighten the screw to the mounting hole. Please refer to the following drawing.



PRODUCTION COMPONENTS

1. D/N 5MP HD IP Camera



2. Quick Installation Guide



3. CD Software Pack



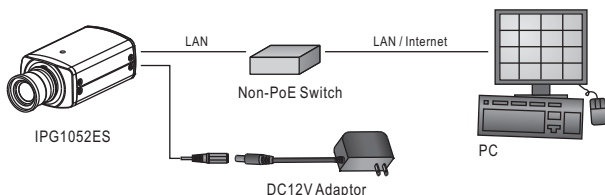
4. Bracket



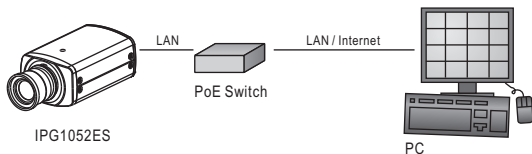
SYSTEM ARCHITECTURES

For connecting IPG1052ES series to the network, please follow one of the system architectures:

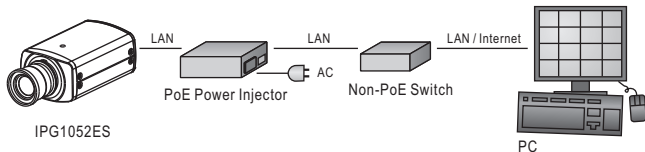
(1). Use DC12V power adaptor and network switch connected to a network.



(2). Use with PoE of the network switch connected to the network.



(3). Use PoE power injector and the network switch connected to the network.



EMERGENCY FACTORY DEFAULT

Use hardware to restore factory default settings, follow these steps:

1. Hold "RESET" key 10 seconds, then release.
2. After about 40 seconds, the network LED light is off, and then lit.
3. This camera has completed the factory default settings, and then reboot.
4. Use IPScan software search for this IP device.
5. Using a Internet browser open the IP device.
6. Enter the default username "admin" and password "pass" to operate.

NOTE

For the convenience of users, restore the factory default settings will revert to the default IP address 192.168.0.200.

SPECIFICATIONS

Day/Night 5MP HD IP CAMERA	
Model No.	IPG1052ES
Pick Up Element	1/2.5" CMOS Image sensor
Effective Pixels	2592(H) x 1944(V) = 5,038,848(pixel)
Chip Size	5.70mm(H) x 4.28mm(V)
Scanning System	Progressive Scan
Infrared Cut Filter	Auto / Schedule / Day(Color) / Night(Mono) / External control
Min. Illumination	0.2Lux at F1.2 (Low Light Mode)
White Balance	Auto / Tungsten / Indoor / Fluorescents1 / Fluorescents2 / Outdoor1 / Outdoor2
Back Light Compensation	Off/ On
Electronic Shutter	1/30(25)s ~ 1/8,000s
Sense Up	Off/ 1Frame/ 2Frames/ 3Frames/ 7Frames
Sense Up Plus	Yes
Auto Gain Control	36dB Variable Gain
3D Noise Reduction	Off/ 1~32 Selectable
2D WDR	Off/ Auto/ x2/ x3/ x4
Privacy Masking	Off/ On (4 zones)
Image Effects	Brightness, Contrast, Hue, Saturation, Sharpness, Mirror, Flip
Live Video Output	CVBS 1.0Vp-p, 75ohm, RCA connector
Audio In/Output	Mono, 1.4 Vp-p, 50K Ω , 3.5mm phone jack
Operating Temperature	-25°C ~ +50°C (-13°F ~ 122°F)
Dimension	70mm(W) x 50mm(H) x 122mm(D)
Weight	550g
Power Input Voltage	DC12V \pm 10% / PoE (IEEE 802.3af compliant)
Power Consumption	DC12V, 6W / PoE, 7.5W

Design and specification are subject to change without notice.

NETWORK		
Video Compression		H.264, Motion JPEG
Resolution		5MP(2592x1944), 3MP(2560x1440), 1080P(1920x1080), 720P(1280x720), D1(720x480), CIF(352x240)
Multiple profile	Profile #1	H.264: up to 30fps @1920x1080, MJPEG: up to 30fps @720x480
	Profile #2	H.264: up to 30fps @1280x720, MJPEG: up to 30fps @352x240
	Profile #3	H.264: up to 30fps @1920x1080, MJPEG: up to 30fps @1280x720
	Profile #4	H.264: up to 30fps @720x480, MJPEG: up to 15fps @1920x1080
	Profile #5	H.264: up to 15fps @2560x1440, MJPEG: up to 15fps @720x480
	Profile #6	H.264: up to 12fps @2592x1944, MJPEG: up to 12fps @720x480
Video Streaming		RTP/HTTP, RTP/TCP, RTP/UDP, Multicast
Video Bitrate		128Kbps ~ 10Mbps Frame rate and bit rate controllable on-the-fly VBR/ CBR/ GOP supported
Security		Base64 HTTP encryption Multiple user access levels with password protection 10 user accounts available
Users		8 simultaneous users
ePTZ & Digital Zoom		Yes, ROI is supported
OSD		Text overlay for date, time, and camera name
Alarm Functions		Alarm / motion / tampering / face detection triggering recording into SD card Image upload over FTP and E-mail by face/ tampering/ audio/ motion detection
CPU, Memory		Embedded SoC ARM11, 528MHz 256MB DDR2, 256MB flash memory
Maintenance		Firmware update via HTTP, Firmware available at web site
Network Interface		10Mbps / 100Mbps Base-T, RJ-45
PC Requirement		OS : Windows 2000, Windows XP, Windows Vista, Windows 7 Browser : Windows Internet Explorer 6, 7, 8 CPU : Intel Pentium 4 1.8GHz or above RAM : 1GB or above, Independent Display Card
Network Protocols		IP, TCP, UDP, HTTP, SMTP, NTP, DDNS, UPnP, FTP, ARP, DHCP, PPPoE, DNS, RTSP, RTCP, Telnet, IGMP, ONVIF
Mobile Phone and PDA		iPad, iPhone and Android support
System Integration		ONVIF & LILIN HTTP API
CMX		CMX HD3.6 support
Video Display		LILIN Universal ActiveX & LILIN Java Applet
OS		Embedded Linux 2.6.32
Two-way Audio		G.711 / PCM
SD Card Recording		Support SD/SDHC card for circular recording (card is not included)
Alarm Input / Output		Digital 1 input (TTL, +3~5V) / 1 Output (N.O.)
Control Interface		RS-485, Half-Duplex, support MLP2, Pelco D/P protocols

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