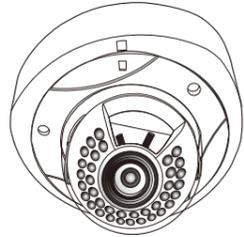


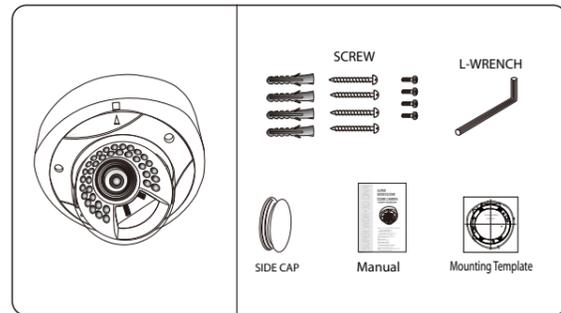
3 MEGA PIXEL HD NETWORK IR DOME CAMERA USER'S MANUAL



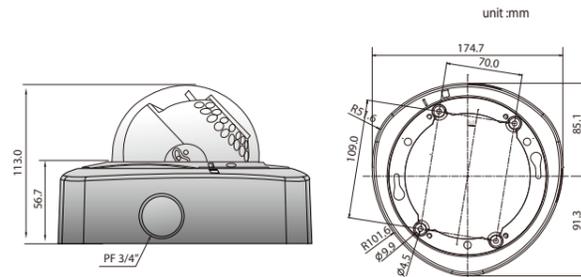
- Sony 3Mega Pixel Image Sensor
- Triple Codec (H.264/MPEG4/MJPEG)
- Triple Stream
- Support Onvif
- Support POE
- IR LED : 35 units 850nm Infrared LED, 20,000hrs
- Night View Distance : Indoor 35 / Outdoor 25m
- Sense-Up (x6)
- True Day & Night(ICR)
- True 3-Axis Easy Ball Type Gimbal Bracket built-in
- Built-in Heater & Blower
- Weatherproof (IP68)

IP3-003

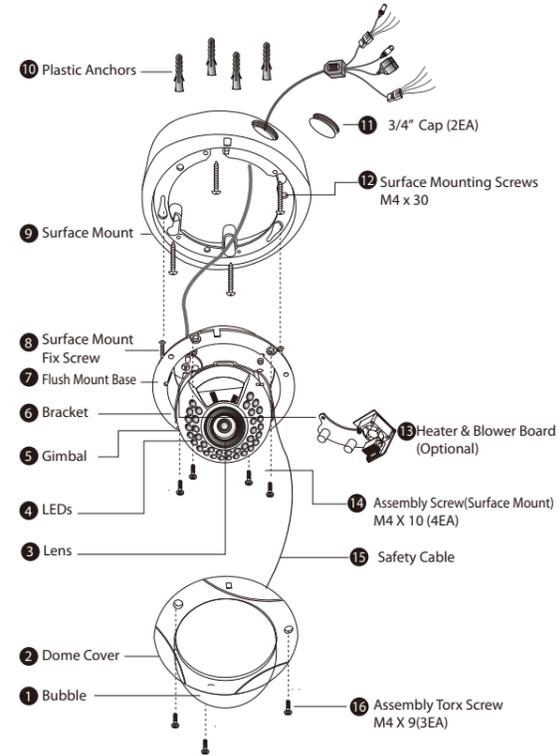
Components & Dimension



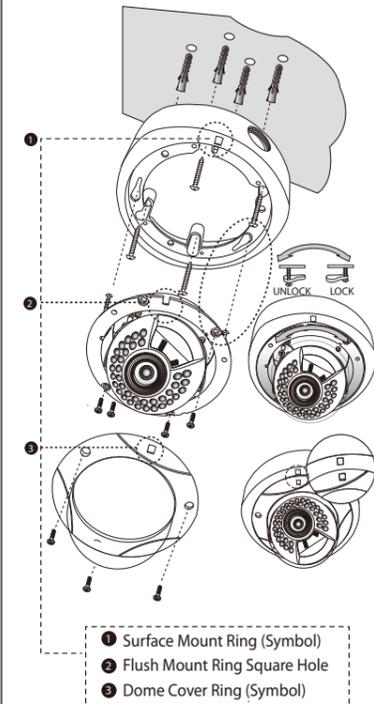
Dimension



1. Names and Functions of Parts



2. Installation



Surface Mount Installation

STEP :

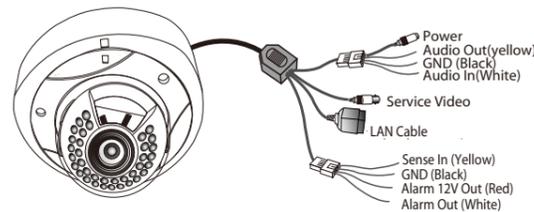
1. Mount the surface mount plate to a sturdy surface or wall with the installation template (mounting screws M4 x 30).
2. Connect the pre-drilled two screws in the flush mounting ring through the locking hole () and turn it counterwise for the temporary locking system before drilling four screws (M4 x 10) of flush mount ring. Please check if the □ symbol in the surface mount ring and the square hole () in the flush mount ring meet in a line when it is locked.
3. Screw with four screws (M4 x 10) from flush mount ring to be mounted with the surface mount.
4. Adjust the lens focus and zoom of camera to monitor the objective.
5. Fit three screws(M4 x 9) from dome cover ring to the flush mount ring and fix it by (3) screws. When you fit the dome cover ring please fit the symbols in the line.

3. Specification

| CAMERA SECTION | | |
|-----------------|---------------------|--|
| IMAGE | Image Sensor | 1/2.8" Sony Exmore 3MP Image Sensor |
| | Scan System | Progressive Scan |
| | Total Pixels | 2144(H) x1588(V), 3.40 Mega Pixels |
| | Effective Pixels | 2048(H) x1536(V), 3.14 Mega Pixels |
| Function | Day & Night | Auto/Day(Color)/Night(BW) |
| | Privacy Area | On/Off (6 Programmable Zone) |
| | WDR | DWDR (1~5Step) |
| | DNR | 1~63 |
| | Motion Detector | 48 Zone (On/Off, 1~5Step) |
| | Elec. Shutter | Auto(1/15~1/10000), Suppress Rolling, Manual |
| | Sense Up | 1~6 Step |
| | White Balance | Auto/Indoor/Outdoor/Fluorescent |
| | Ext. Video | VBS1.0Vp-p |
| Lens | Focal Length | 2.8~10 Mega Lens |
| IR LEDs | IR LEDs | 35 units |
| | Night View Distance | 25m |
| Electrical | Power Supply | DC12[V] ±10% / POE |
| | Current | Max 650mA |
| Environmental | Operating Temp. | -10°C ~ +50°C |
| | Preservation Temp. | -20°C ~ +60°C |
| | Humidity | 0% ~ 90% |
| Mechanical | Weight | Approx. 1,050 g |
| NETWORK SECTION | | |
| System | OS | Embedded Linux |
| Network | Interface | RJ45 100/100 Base-T PoE |
| | Protocol | TCP/IP,UDP/IP,RTSP,RTCP,NTP, HTTP,DHCP,FTP,SMT, DNS,DDNS |
| | Onvif | ver2.0 |
| | DDNS | iplinker.net |
| | Simultaneous Access | Max. 10 user |
| Video | Compress Format | H.264/MPEG4/MJPEG |
| | Resolution | 2048x1536/1600x1200/1920x1080/1280x1024/1280x720/640x480 |
| | Frame rate | 5fps ~ 15fps @ all resolution |
| | Video Quality | H.264,MPEG4 : Bitrate Control |
| | Streaming | MJPEG : Quality Level Control |
| | | Triple Stream (Stream1,2,3) |
| | | RTP/RTSP, UnicastRTP, Multicast RTP |
| Audio | Compress Format | G.711 u-law |
| | Streaming | Two way |
| Event | Sensor In | 1 (Digital Input) |
| | Alarm Out | 1 (Digital Out, Open Collector) |
| Web Browser | Manager | IE, Firefox, Safari, Opera |
| | Viewer | IE only (Active-X) |

Design and specifications are subject to change without notice.

4. Interface & IP Initization



IP Initialization

| | |
|-------------|---------------|
| IP Address | 192.168.1.30 |
| Gateway | 192.168.1.1 |
| Subnet mask | 255.255.255.0 |
| ID | admin |
| Password | admin |
| Web Port | 80 |
| RTSP Port | 554 |

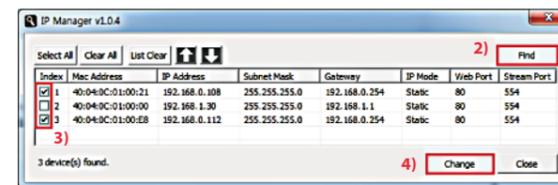
* You should change the ID and Password after purchasing.

* You will be responsible for all the damages unless you change the ID and Password.

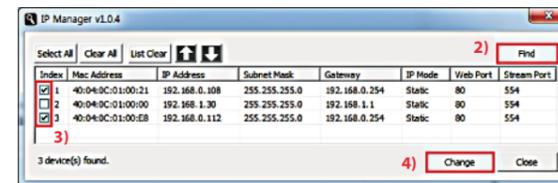
5. IP Manager

You can do all the settings about network by IP Manager.

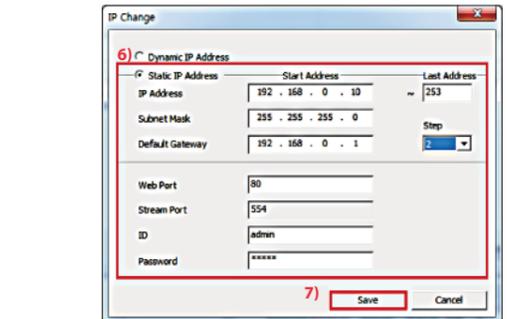
- 1) Run IP Manager
- 2) Click Find
- 3) Choose the cameras you want to change
- 4) Click Change



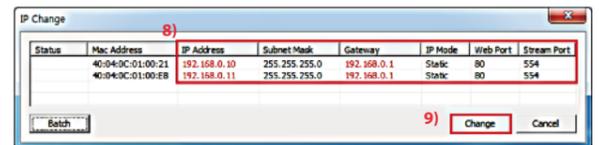
- 5) Click Batch



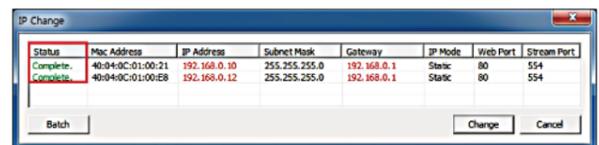
- 6) If you want to change many IP addresses, you can enter the starting IP address and the ending IP address, and enter each increasing step.
- 7) Click Save



- 8) Confirm if the changing values are correct.
- 9) Click Change



- 10) Check the Status
- 11) Try again for the failed cameras



6. Web Viewer

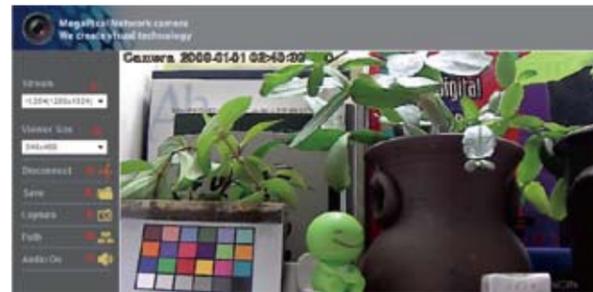
You can connect the web server inside the camera and check the picture.
First enter the address on internet explorer.
1) Enter ID / Password
2) Click Viewer



Install Active-X



Web viewer functions



- 1) Stream : Choosing stream, displaying the status of chosen stream
- 2) Viewer Size : Choose the size of window
- 3) Disconnect : Disconnect the camera
- 4) Save : Record the current moving picture in AVI file format.
- 5) Capture : Save the current still picture in BMP file format.
- 6) Path : Choose the directory to Save, Capture
- 7) Audio On : Turn On/Off Audio
Audio should be On at setting.

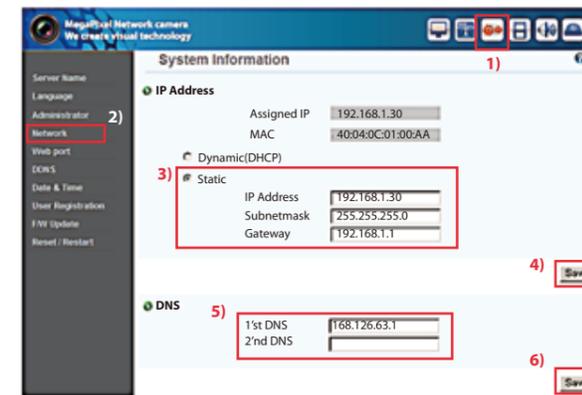
7. Web Manager

You can control all the functions through Web Manager log on.
When you use, you should change ID and Password and don't open for secure use.
1) Enter ID / Password
2) Click Manager



Check the network setting and change

When it is working fine under LAN condition, but not working under WAN, and the camera cannot receive the correct time from NTP server,

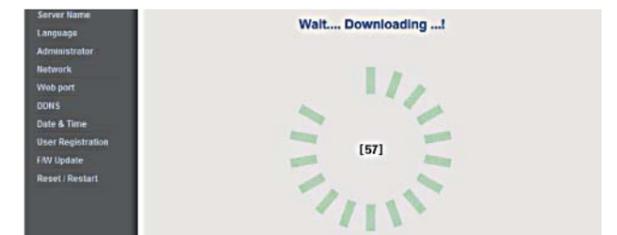


How to update the firmware

Update is needed to improve the functions and quality.
1) Click the find and choose the update file.
2) Click Update start and wait until Wait Downloading appears.
* Don't click any buttons when you are waiting.



3) Wait until Update completed
* Don't click any buttons when it is being updated.



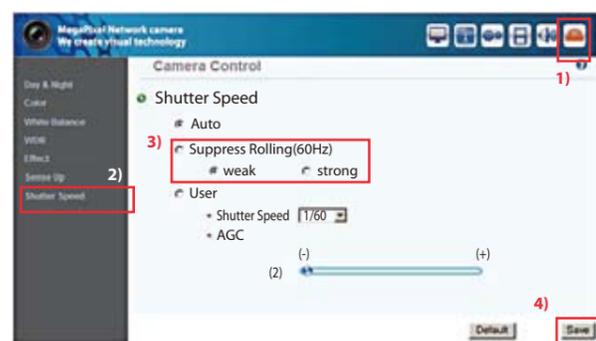
4) After Update completed, click Restart

8. Web Viewer

Suppress rolling



If there is a rolling picture under lighting, you can use this Suppress rolling function.
If you choose "Strong" on Suppress Rolling function, electric shutter will be fixed at 1/15 ~ 1/120 sec. you should be careful when you use it under bright lighting.
Click Help (?) for more details.



9. Web Manager

Frame rate / Bit rate adjustment



Refer to below bit rate and frame rate example for your easier understanding.
Current Status
Frame Rate : 30[fps]
Bit Rate : 4000[Kbps]

Case 1
Frame Rate 15[fps]
Bit Rate 4000[Kbps]

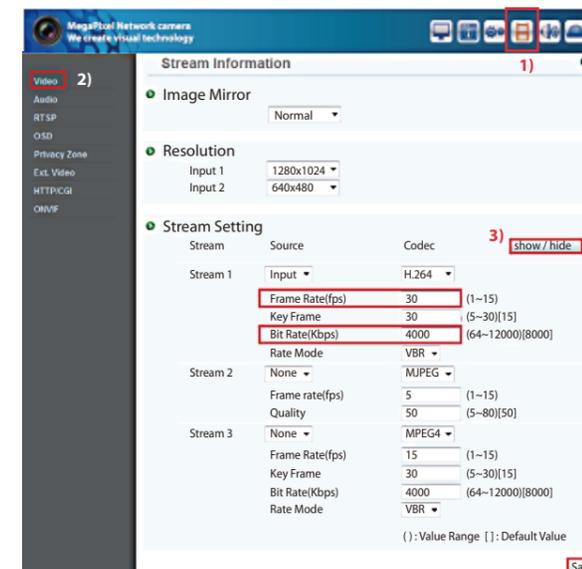
The pictures transferred per 1 sec. is decreased from 30 to 15.
The data size transferred per 1 sec. is maintained on 4000[Kbps]
Picture quality will be better, and network load will be same.

Case 2
Frame Rate 30[fps]
Bit Rate 2000[Kbps]

The pictures transferred per 1 sec. is maintained on 30.
The data size transferred per 1 sec. is decreased from 4000[Kbps] to 2000.
Picture quality will be worse and network load will be decreased from 4000[Kbps] to 2000, by half.

Case 3
Frame Rate 15[fps]
Bit Rate 2000[Kbps]

The pictures transferred per 1 sec. is decreased from 30 to 15.
The data size transferred per 1 sec. is decreased from 4000[Kbps] to 2000.
Picture quality is same, network load will be decreased from 4000[Kbps] to 2000, by half.
Therefore you should change both frame rate and bit rate.



How to set WDR



If you want to watch the more clear image under back light condition, you can do setting as below, and choose the step and click Save.

* You should check the pictures after click the Save button.

