


DIGITUS DN-16087 Fisheye IP Camera



# DIGITUS DN-16087 Fisheye IP Camera User Manual

[Home](#) » [DIGITUS](#) » DIGITUS DN-16087 Fisheye IP Camera User Manual 

## Contents

- [1 DIGITUS DN-16087 Fisheye IP Camera](#)
- [2 Product Information](#)
- [3 Function Cables](#)
- [4 Camera Cabling](#)
- [5 FAQs](#)
- [6 Overview](#)
- [7 Features](#)
- [8 Package Contents](#)
- [9 Dimensions](#)
- [10 System Requirements](#)
- [11 Access Camera](#)
- [12 Installing Viewer Software Online](#)
- [13 Mount Installed](#)
- [14 Setup Video Resolution](#)
- [15 Tech Support Information](#)
- [16 Documents / Resources](#)
  - [16.1 References](#)
- [17 Related Posts](#)



**DIGITUS DN-16087 Fisheye IP Camera**



## Product Information

### • Specifications

- Progressive Scan CMOS Sensor
- Software Dewarping- 6M Resolution + 720P Real-Time
- Edge Dewarping, Up to 4M Resolution Real-time
- Quad Streams Compression- H.264 Baseline / Main / High Profile + MJPEG
- **Multiple Dewarp Display Modes:** Digital PTZ / Panorama View / Quad View
- **Smart Event Function:** Motion Detection / Network Failure Detection / Tampering Alarm / Periodical Event / Manual Trigger Event / Audio Detection
- Multiple and Dynamic Region of Interest (ROI) Windows
- Smart TextOverlay and Privacy Masks
- Wide Dynamic Range
- Day / Night (ICR)
- IR LED Module
- Built-in MIC & Speaker
- Smart Picture Quality / 3D Noise Reduction
- Weatherproof (IP66 International)
- microSD and NAS Recording Support
- Compact and Concise Design
- ONVIF Support
- Package Contents
- Hyper Mini Fisheye IP Camera
- Self-Tapping Screw (x3)
- Plastic Anchor (x3)
- Security Torx
- Power Terminal

### • Quick Guide

- CD
- Block (x1)

## Function Cables

N o.	Connector	Definition	Remarks
1	Audio I/O	Audio In Audio Out	Two-way audio transmission
2	Power (DC 12V) (2-Pin Terminal Block)	Power connection	
3	Alarm I/O (4-Pin Terminal Block)	Alarm connection	
4	GND	Ground connection	
5	RJ-45	For network and PoE connections	
–	Default Button		Refer to the Default Button in the table under Connectors (Indoor Only).
–	microSD Card Slot		Refer to the microSD Card Slot in the table under Connectors (Indoor Only).

## Camera Cabling

### • Power Connection

- For power connection, please refer to the section for All in One Cable for the outdoor models.
- Alternatively, users can power the camera by PoE if a Power Sourcing Equipment (PSE) switch is available.
- Refer to the section below for the Ethernet cable connection.

## FAQs

### • Q: Can I use the camera in low-light environments?

- **A:** Yes, the camera features an IR LED module and Smart Picture Quality/Noise Reduction that improves image quality in low-light environments.

### • Q: Is the camera weatherproof?

- **A:** Yes, the camera has an IP66 International weatherproof rating.

### • Q: Can I record a video using a microSD card?

- **A:** Yes, the camera supports microSD card recording.

## Overview

- Fisheye IP Camera (DN-16087) is a high-resolution surveillance solution that features 360° wide coverage without blind spots.
- Mini fisheye camera supports resolution up to 6 Megapixels streaming at 30 fps which allows the videos to be viewed smoothly. Moreover, the fisheye camera supports digital PTZ, panoramic view, and several display modes to fulfill users' needs.

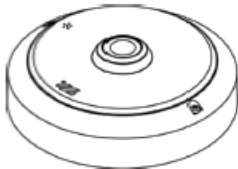


- With its Compact and Concise design, the Mini Fisheye Camera is suitable for application in many kinds of environments, such as office rooms, hotels, vehicles, etc.
- Furthermore, the embedded edge de-warping engine enables the fisheye camera to dewarp images by camera rather than the backend system.
- Therefore, the edge de-warping technique reduces the burden of the backend system and also enhances the flexibility of usage.
- Featuring an IR LED module and Smart Picture Quality/Noise Reduction improves the image quality in low light environments.





## **Features**

- Progressive Scan CMOS Sensor
- Software Dewarping- 6M Resolution + 720P Real-Time
- Edge Dewarping, Up to 4M Resolution Real-time
- Quad Streams Compression- H.264 Baseline / Main / High Profile + MJPEG
- Multiple Dewarp Display Modes-
- digital PTZ / Panorama View / Quad View
- Smart Event Function-
- Motion Detection / Network Failure Detection / Tampering Alarm / Periodical
- Event / Manual Trigger Event / Audio Detection
- Multiple and Dynamic Region of Interest (ROI) Windows
- Smart TextOverlay and Privacy Masks
- Wide Dynamic Range
- Day / Night (ICR)
- IR LED Module
- Built-in MIC & Speaker
- Smart Picture Quality / 3D Noise Reduction
- Weatherproof (IP66 International)
- microSD and NAS Recording Support
- Compact and Concise Design
- ONVIF Support

## **Package Contents**

Please check the package contains the following items listed below.

		
Hyper Mini Fisheye IP Camera	Self-Tapping Screw (x3)	Plastic Anchor (x3)

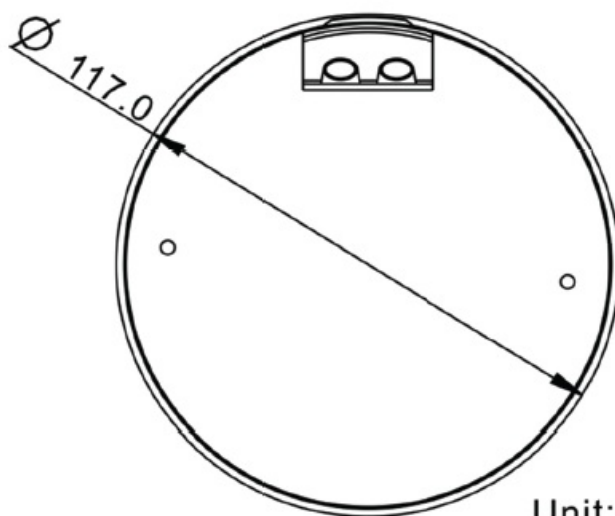
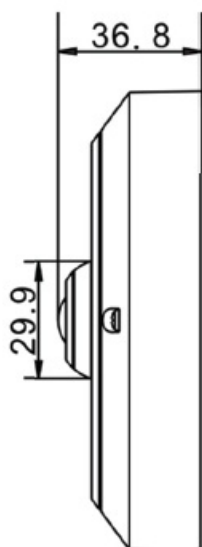
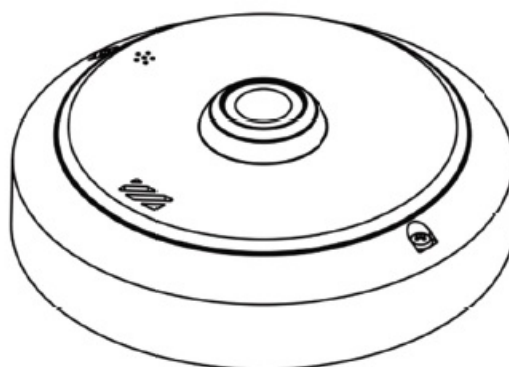
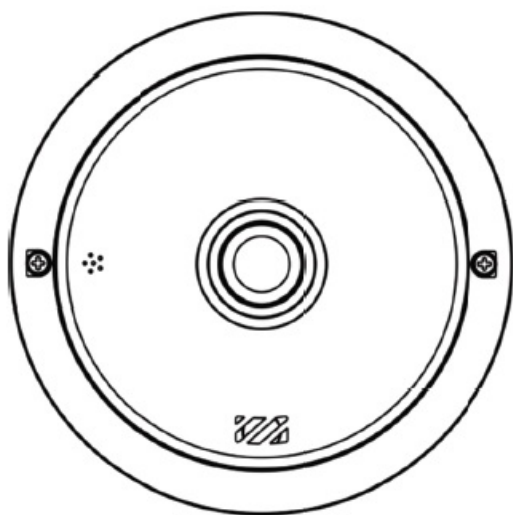
			
Security Torx	Power Terminal Block (x1)	Quick Guide	CD

**NOTE:** The supplied self-tapping screws are for soft substance/material installation such as wood. For other installation environment such as cement walls, it is required to pre-drill and use plastic anchors before fastening the supplied self-tapping screws on the wall.

## Dimensions

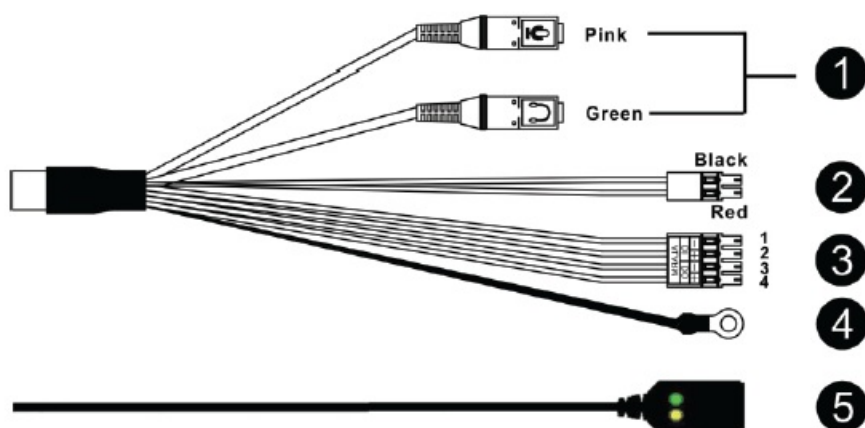
The dimensions of the camera are shown below.

## Outdoor



Unit: mm

## Function Cables



No.	Connector	Pin	Definition	Remarks
1	Audio I/O	Pink	Audio In	Two-way audio transmission
		Green	Audio Out	
2	Power (DC 12V) (2-Pin Terminal Block)	Black	DC 12V –	Power connection
		Red	DC 12V +	
3	Alarm I/O (4-Pin Terminal Block)	1	Alarm In –	Alarm connection
		2	Alarm In +	
		3	Alarm Out –	
		4	Alarm Out +	
4	GND	–	GND	Ground connection
5	RJ-45	–	For network and PoE connections	
–	Default Button	–	Refer to the Default Button in the table under Connectors (Indoor Only).	
–	microSD Card Slot	–	Refer to the microSD Card Slot in the table under Connectors (Indoor Only).	

## Camera Cabling

- Please follow the instructions below to complete the cable connections.

## Power Connection

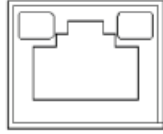
- For power connection, please refer to the section for All in One Cable for the outdoor models. Alternatively, users can power the camera by PoE if a Power Sourcing Equipment (PSE) switch is available. Refer to the section below for the Ethernet cable connection.
- **NOTE:** If PoE is used, make sure PSE is in use in the network.

## Ethernet Cable Connection

- To have the best transmission quality, the cable length shall not exceed 100 meters.
- Connect one end of the Ethernet cable to the RJ-45 connector of the camera, and plug the other end of the cable to the network switch or PC.
- **NOTE:** In some cases, an Ethernet crossover cable might be needed when connecting the camera directly to

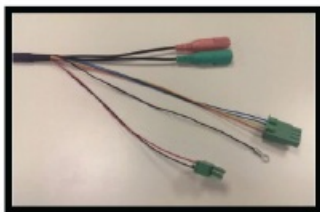
the PC.

- Check the status of the link indicator and the activity indicator LEDs. If the LEDs are unlit, please check the LAN connection.
- The Green Link Light indicates a good network connection.
- Orange Activity Light flashes for network activity indication.



### **Waterproof Cable Connector (Outdoor Only)**

- Follow the instructions below to waterproof the connectors of different types of cables.
- The supported cables are as shown below.



**All-in-One Cable**



**IP66 RJ-45 Cable**

### **All-in-One Cable**

- Follow the steps below to waterproof the connectors of the All-in-One cable.

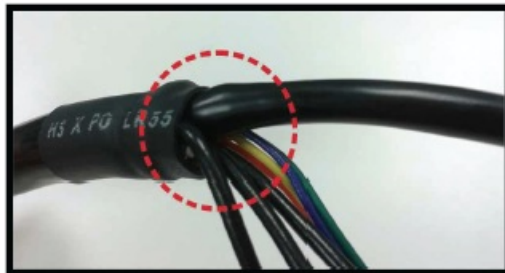
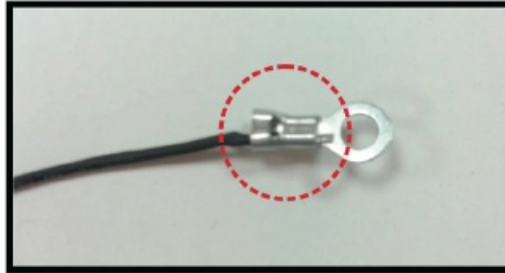
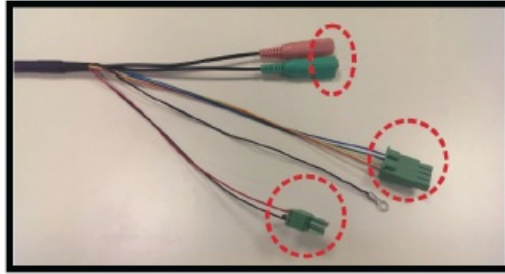
#### **Step 1:**

- Connect the required devices to the
- All-in-One cable and coat the joints with silicone gel.
- There should be no gap between the connectors and the cables.
- For the alarm I/O connector and the power connector, make sure the side with wires attached is also sealed with silicone gel.
- In addition, attach the ground cable to the ground and wrap the wires with silicone gel. Make sure the wires are not exposed to the air.

#### **Step 2:**

- Seal the end of the rubber coating of the All-in-One cable as indicated in the figure on the right.
- Please use enough silicone gel to fill in the hose and wrap around each wire; otherwise, waterproof function cannot be guaranteed.

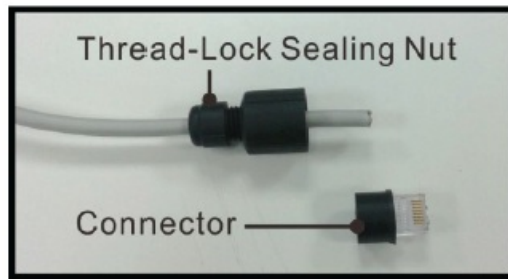




### IP66 RJ-45 Cable

For the IP66 RJ-45 cable, please use an RJ-45 IP66 plug for connection to prevent water damage. Follow the steps below for a cable connection.

1. **Step 1:** Take out the supplied connector from the RJ-45 IP66 plug. Loosen the thread-lock sealing nut on the plug. Then thread the Ethernet cable through the thread-lock sealing nut and the plug. If the Ethernet cable is already attached to a connector, please remove it first.
2. **Step 2:** Carefully remove a section of rubber coating from the end of the Ethernet cable to reveal the wires. Insert the wires to the correct pins of the connector. Plug the Ethernet cable into the connector of the IP66 RJ-45 cable.
3. **Step 3:** Fasten the RJ-45 IP66 plug to the connector of the IP66 RJ-45 cable. Lastly, tighten the thread-lock sealing nut to the plug.



## System Requirements

To perform the IP camera via web browser, please ensure the PC is in good network connection, and meets system requirements as described below.

Items	System Requirement
Personal Computer	<b>Minimum :</b> <ol style="list-style-type: none"> <li>1. Intel® Core™ i5-2430M @ 2.4 GHz</li> <li>2. 4 GB RAM</li> </ol>
	<b>Recommended:</b> <ol style="list-style-type: none"> <li>1. Intel® Core™ i7-870 @ 2.93 GHz</li> <li>2. 8 GB RAM</li> </ol>
Operating System	Windows VISTA / Windows XP / Windows 7
Web Browser	Microsoft Internet Explorer 6.0 or later Firefox Chrome Safari
Network Card	10Base-T (10 Mbps) or 100Base-TX (100 Mbps) or 1000Base-T (1000 Mbps) operation
Viewer	ActiveX control plug-in for Microsoft IE

## Access Camera

- **For initial access to the IP camera, users can search the camera through the installer program:**  
DeviceSearch.exe, which can be found in the “DeviceSearch” folder in the supplied CD.

### Accessing the Camera by Device Search Software

- **Step 1:** Double-click on the program Device Search.exe.
- **Step 2:** After its window appears, click on the <Device Search> button on the top. All the found IP devices will be listed on the page.
- **Step 3:** Find the camera in the list by its IP address and click on it. The default IP address of the camera is 192.168.0.250.
- **Step 4:** The default IP address of the camera may not be in the same LAN as the IP address of the PC. If so, the IP address of the camera needs to be changed. Right-click on the camera and click <Network Setup>. Meanwhile, record the MAC address of the camera, for future identification.
- **Step 5:** The <Network Setup> page will come out. Select «DHCP» and click <Apply> down the page. The camera will be assigned a new IP address.
- **Step 6:** Click <OK> on the Note of setting change. Wait for one minute to research the camera.
- **Step 7:** Click on the <Device Search> button to research all the devices. Find the camera in the list by its MAC address. Then double-click or right-click and select <Browse> to access the camera directly via a web browser.
- **Step 8:** A prompt window requesting for default username and password will appear. Enter the default username and password shown below to login to the camera.

Login ID	Password
admin	admin

- **NOTE:** ID and password are case-sensitive.
- **NOTE:** It is strongly advised that the administrator's password be altered for security concerns. Refer to the Camera's Web UI Manual in the supplied CD for further details.

### Installing Viewer Software Online

- For initial access to the camera, a client program, Viewer, will be automatically installed on the PC when connecting to the camera.
- If the web browser doesn't allow Viewer installation, please check the Internet security settings or ActiveX controls and plug-ins settings (refer to section Setup Internet Security) to continue the process.
- The Information Bar (just below the URL bar) may come out and ask for permission to install the ActiveX Control for displaying video in the browser. Right-click on the Information Bar and select <Install ActiveX Control...> to allow the installation.

The download procedure of Viewer software is specified as follows.

- **Step 1:** In the Viewer installation window, click on <Next> to start the installation.
- **Step 2:** The status bar will show the installation progress. After the installation is completed, click on <Finish>

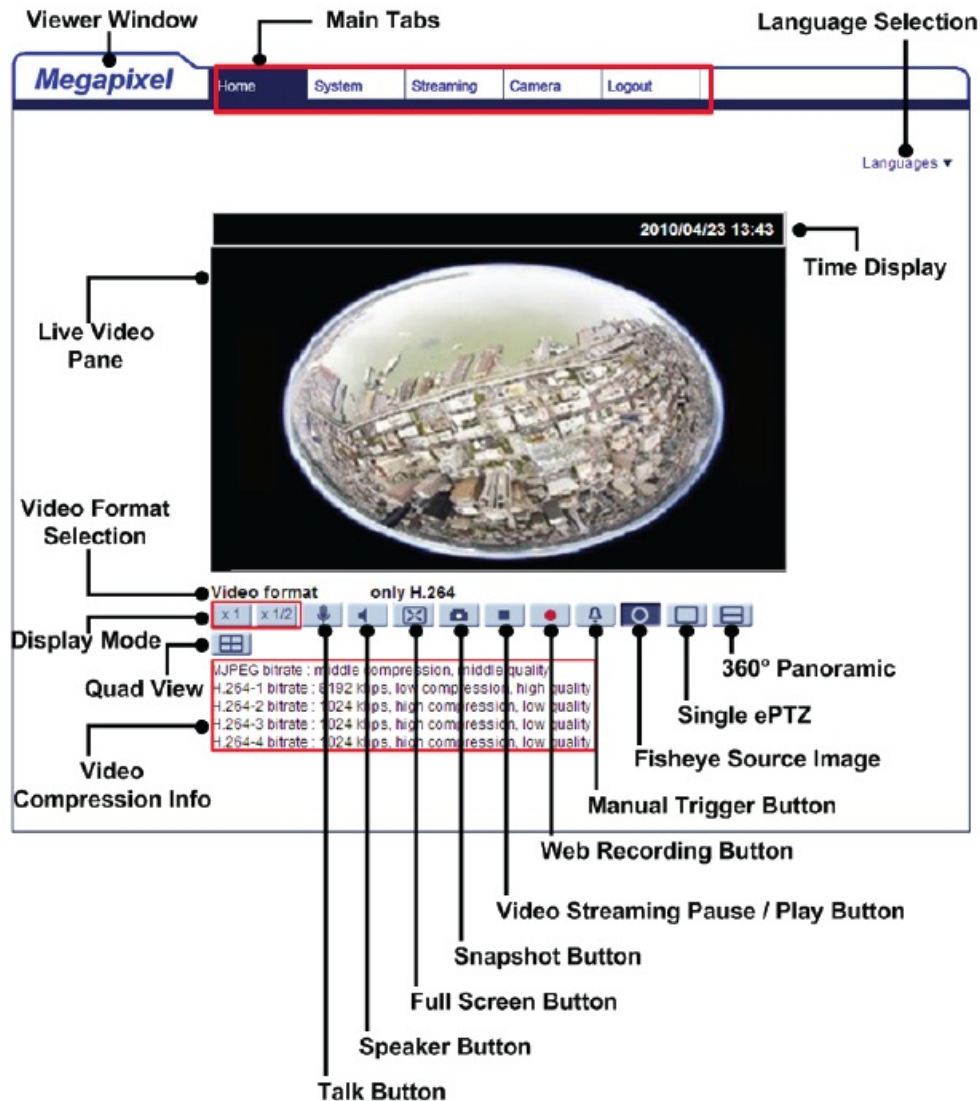
to exit the installation process.

- **Step 3:** Click on <Finish> to close the Viewer installation page.

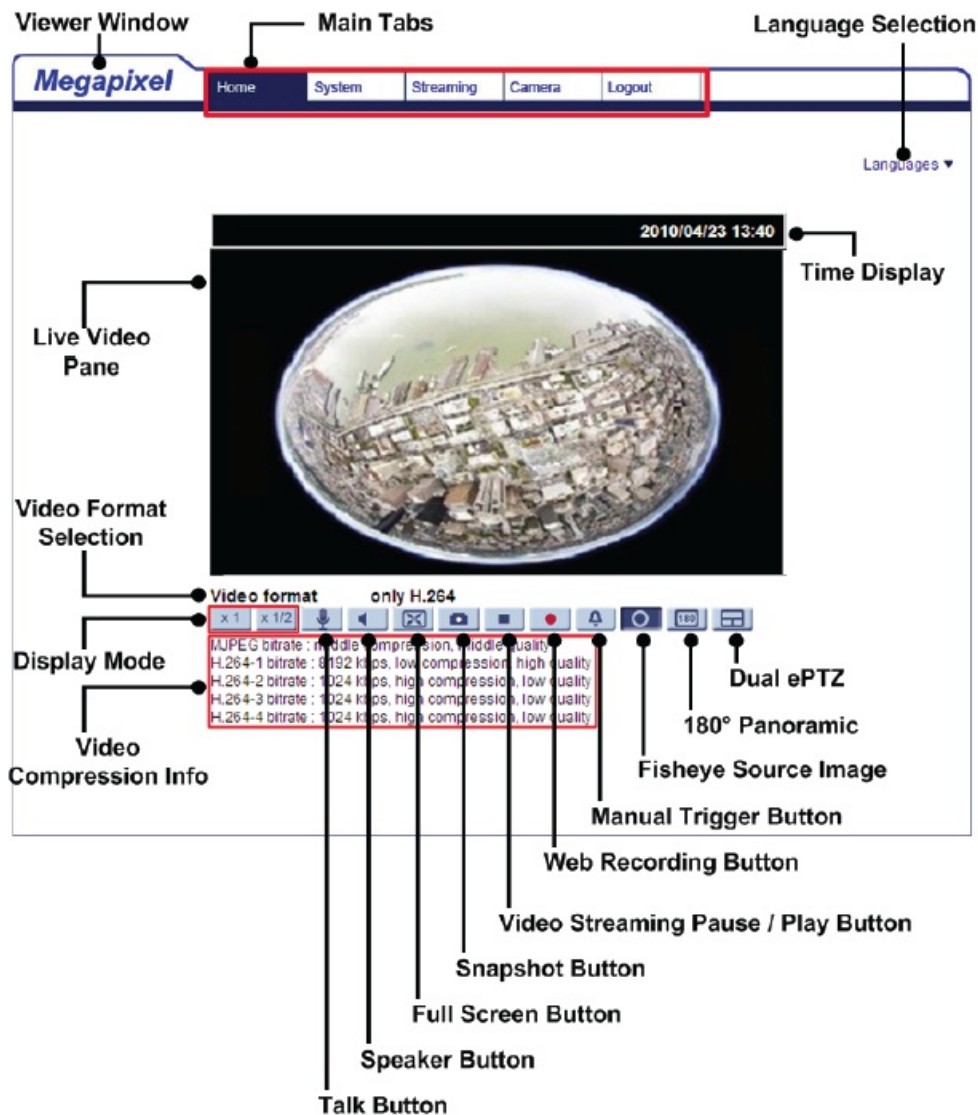
Once the Viewer is successfully installed, the Home page of the IP camera will be shown in the figure below.

## Mount Installed

### Ceiling Mount Installed Camera



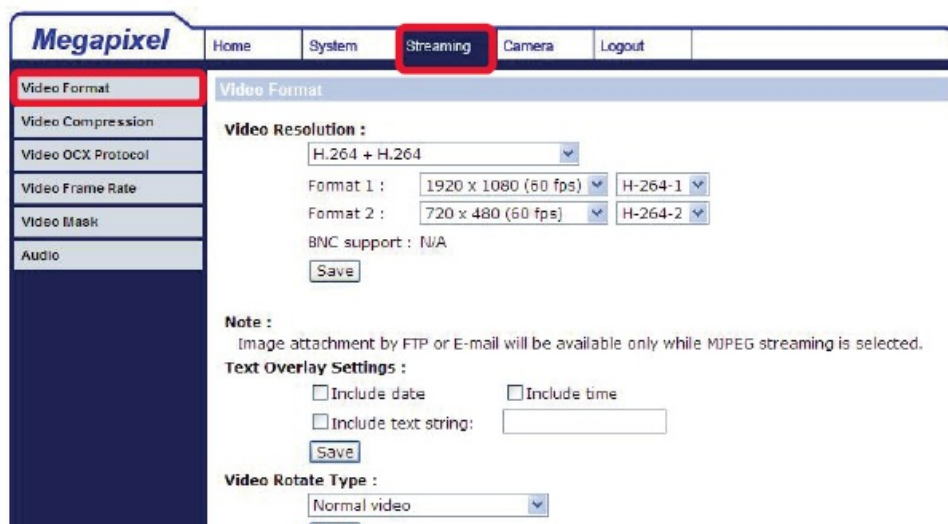
### Wall Mount Installed Camera



**NOTE:** For more details about the function buttons on the Home page, please refer to the Camera's Web UI Manual in the supplied CD.

## Setup Video Resolution

Users can set up video resolution on the Video Format page of the user-friendly browser-based configuration interface. Video Format can be found under this path: Streaming> Video Format.



- The default video resolution of 5M and 6M models are shown below.
- The default resolution varies with different Fisheye Dewarping types, Front End Camera Dewarping, and Back End Software Dewarping.
- Users can set the Fisheye Dewarping types on
- Camera setting page. Click on on Camera setting page, and choose a fisheye dewarping type for correcting the fisheye source images.
- Then, select the camera's installation method to view the dewarped images with the correct viewing modes.

<b>5M Front End</b>  <b>5M Back End</b>	H.264- 2048 x 2048 (14 fps) + H.264- 1920 x 1080 (14 fps)
	H.264- 1920 x 1080 (30/25 fps) + H.264- 720 x 480 (30/25 fps)

<b>6M Front End</b>  <b>6M Back End</b>	H.264- 2080 x 2048 (20 fps) + H.264- 1920 x 1080 (20 fps)
	H.264- 1920 x 1080 (60/50 fps) + H.264- 720 x 480 (60/50 fps)

**NOTE:** For more details about the combinations of video resolution, please refer to the Camera's Web UI Manual in the supplied CD.

### Configuration Files Export / Import

- To export / import configuration files, users can access the Maintenance page on the user-friendly browser-based configuration interface.
- The Maintenance setting can be found under this path: System> Maintenance.
- Users can export configuration files to a specified location and retrieve data by uploading an existing configuration file to the camera.

### Export

- Users can save the system settings by exporting the configuration file (.bin) to a specified location for future use.
- Click on the <Export> button, and the popup File Download window will come out. Click on <Save> and specify a desired location for saving the configuration file.

### Upload

- To upload a configuration file to the camera, click on <Browse> to select the configuration file, and then click on the <Upload> button for uploading.

### Tech Support Information

- This chapter will introduce how to delete previously installed Viewer on the PC and how to set up Internet security.

## **Delete the Existing Viewer**

- For users who have installed the Viewer on the PC previously, please remove the existing Viewer from the PC before accessing the IP camera.

## **Deleting the Viewer**

- In the Windows, activate, and then double click on. In the list, select and click on the button to uninstall the existing Viewer.

## **Deleting Temporary Internet Files**

To improve browser performance, it is suggested to clean up all the files in the. The procedure is as follows.

- **Step 1:** In the web browser, click on the tab on the menu bar and select.
- **Step 2:** Click on the button under the section. In the appeared window, tick the box beside the.
- **Step 3:** Click on to start deleting the files.

## **Setup Internet Security**

If ActiveX control installation is blocked, please either set the Internet security level to default or change ActiveX controls and plug-ins settings.

### **Internet Security Level: Default**


- **Step 1:** Start the Internet Explorer (IE).
- **Step 2:** Click on the tab on the menu bar and select.
- **Step 3:** Click on the tab, and select zone.
- **Step 4:** Down the page, click on the button and click on to confirm the setting. Close the browser window, and restart a new one later to access the camera.

## **ActiveX Controls and Plug-ins Settings**

- **Step 1:** Repeat Step 1 to Step 3 of the previous section above.
- **Step 2:** Down the page, click on the button to change ActiveX controls and plug-ins settings. The Security Settings window will pop up.
- **Step 3:** Under, set ALL items (as listed below) to or. Please note that the items vary by IE version.
  - **ActiveX controls and plug-ins settings:**
    1. Binary and script behaviors.
    2. Download signed ActiveX controls.
    3. Download unsigned ActiveX controls.
    4. Allow previously unused ActiveX controls to run without prompt.

5. Allow Scriptlets.
  6. Automatic prompting for ActiveX controls.
  7. Initialize and script ActiveX controls not marked as safe for scripting.
  8. Run ActiveX controls and plug-ins.
  9. Only allow approved domains to use ActiveX without prompt.
  10. Script ActiveX controls marked safe for scripting\*.
  11. Display video and animation on a webpage that does not use external media player
- **Step 4:** Click on to accept the settings. A prompt window will appear to confirm the setting changes, click <Yes(Y)> to close the Security Setting window.
  - **Step 5:** Click on to close the Internet Options screen.
  - **Step 6:** Close the browser window, and restart a new one later to access the camera.
- 

## Documents / Resources

	<p><a href="#">DIGITUS DN-16087 Fisheye IP Camera</a> [pdf] User Manual DN-16087 Fisheye IP Camera, DN-16087, Fisheye IP Camera, IP Camera</p>
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## References

-  [Manual-Hub.com - Free PDF manuals!](#)
- [User Manual](#)

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