

## 360 degree Omnidirection Network Camera

Ceiling Fit Type      Model : **CFC-360F-IP**

## User's Manual



*Thank you very much for purchasing the 360 degree omnidirection camera CFC-360F-IP. Please read this manual carefully before using the product for proper operation and your safety. Preserve this manual and use this when it is necessary.*

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## For Safety Use – Warning

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Please read this manual carefully before using the product for proper operation.

The followings are very important notices for the safety use of the product. Make sure to follow the instructions described here.

This product is a general operating-oriented product and not designed to treat people's life, property, and etc... Please understand beforehand that our company cannot take any responsibility for all losses that occurred as a result of using this product.



### Warning

Neglecting the instruction may cause death or serious injury.

- If smoke or nasty smell is observed from the unit, unplug LAN (PoE) Cable immediately. Otherwise it may cause electric shock or fire.
- Do not let water or foreign items in the unit. If it happens, unplug LAN (PoE) Cable immediately. Otherwise it may cause fire or electric shock.
- Do not damage the product and cables. Otherwise it would cause fire or electric shock.
  - Do not modify or and repair the product and cables.
  - Do not place heavy items on or drag LAN Cable.
  - Do not heat LAN Cable as placing near thermal appliances.
- When LAN (PoE) Cable is damaged, or the plug is loose, do not use it. Otherwise it may cause electric shock, short circuit, or fire.
- Make sure to plug firmly. Otherwise it may cause fire or electric shock.
- When installing the product, make sure to fix the product to the firm wall or ceiling. Otherwise it may fall and cause injury.
- Do not disassemble or modify the unit. Otherwise it would cause fire, electric shock or malfunction

## For Safety Use – Caution & Remarks



### Caution

Neglecting the instruction may cause risks of injury or property damages.

- Installation or wiring of the product must be done with the power off. Otherwise it may cause fire, electric shock, or injury.
- Don't use the product under the circumstance beyond the product specified range.
- Don't use the product near the device to generate the electric noise.
- Don't allow any foreign matters or fingers come into the LAN socket or other interface part to external devices. Otherwise it may cause electric shock or injury.
- Don't use the product at the circumstances of relatively low temperature or of large temperature difference, where dew condensation tends to generate.
- When dew condensation occurs, disconnect the PoE LAN cable from the product and dry the product or accustom it to the room temperature sufficiently before using the product.

### Other Remarks

- Don't block the product with other items from the easiness for the maintenance and the heat radiation purpose.
- Make sure all connectors firmly connect.
- Avoid using the product at the place of frequent vibration or physical shock
- Use the Ethernet cable of Cat5e and more for the communication cable.
- Without any notice, the product might be improved or changed in parts or design.
- If the camera lens becomes dusty or oily, the image may be garbled. Use a soft cloth with the lens cleaner to wipe the dust or oil off.

#### Note:

This System may malfunction when the voltage deterioration or electric waves radiated by the other devices. Please note that the resolution of videos and captured images, including the case of dark photogenic objects or surrounding environment, are not guaranteed.

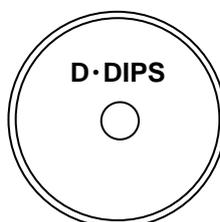
This is a product to be used by connecting with the network. There is a possibility that the best performance of the description in the product catalog etc cannot be achieved in accordance with the network environment or the interface device.

# 1. Contents

(1) Camera (CFC-360F-IP) : 1 pc



(2) Application CD : 1 pc



# 2. Operating Environment

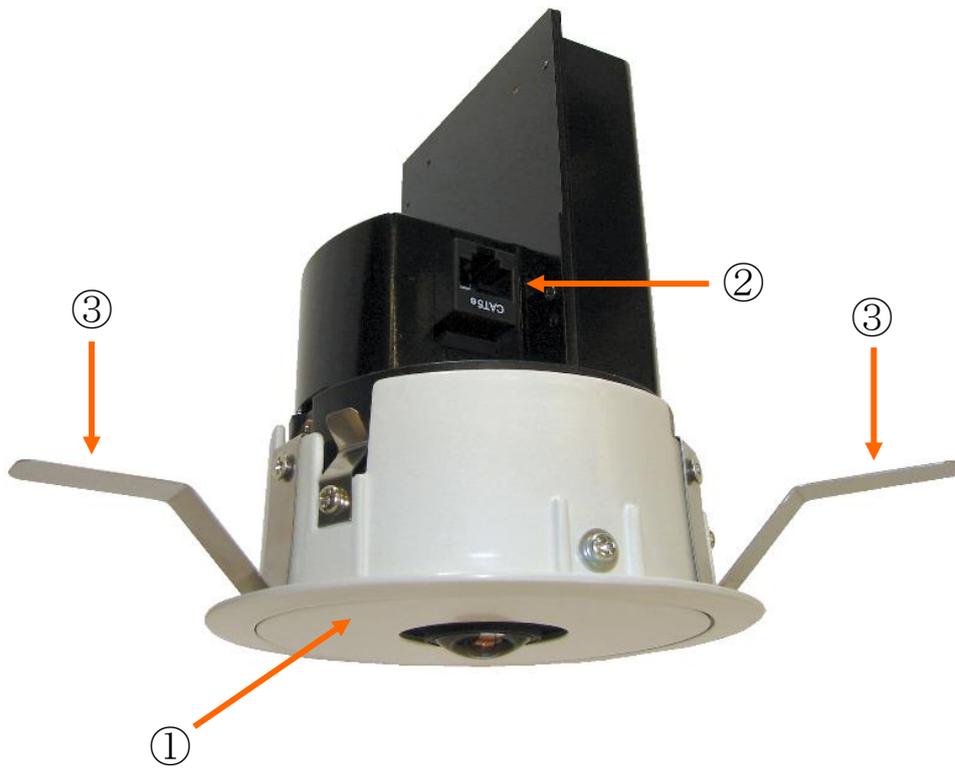
OS: Windows Vista, Windows 7, 8, 8.1, and 10

PC: The environment for proper functioning for the above OS and the below listed hardware specification. .

CPU	Intel PentiumIII 1GHz and more
RAM	512 MB and more
Hard disk	20 MB and more of empty capacity (for recording the images, more empty capacity is separately necessary.)
Display	32 bit color and more Resolution 1,024x768 and more
CD-ROM Drive	(need to install the application software)
LAN	RJ45 (CAT category 5 and more)
others	Internet connectable environment (need for the remote control)

Note: If the above requirements are not satisfied or other application is activated at the same moment, the performance may be deteriorated.

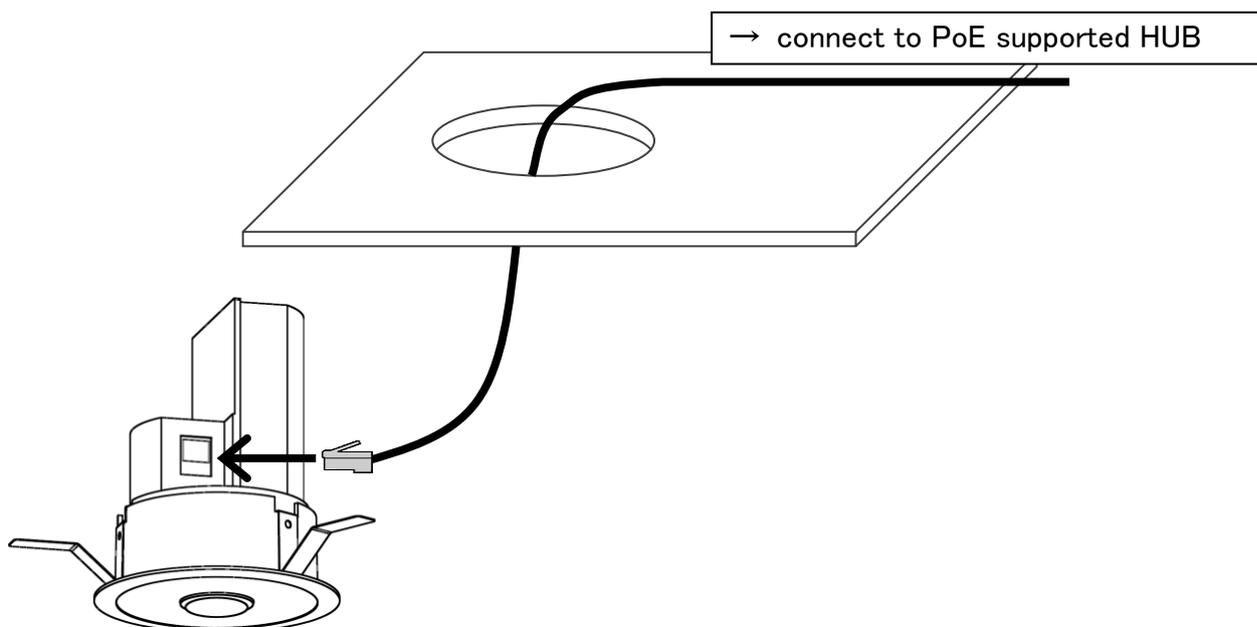
### 3. Name of Part



Name of Part
① Camera body
② Network Connector (PoE)
③ Blade Spring (3 directions)

## 4. Advice for Installing Camera (under Ceiling)

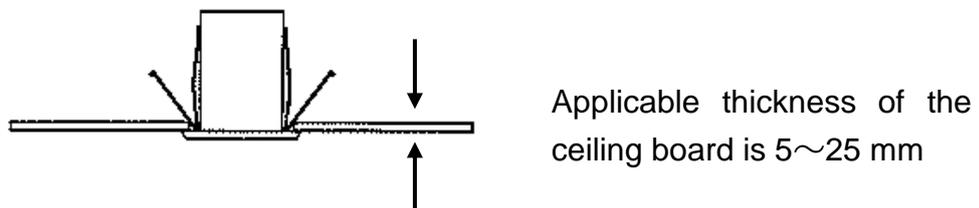
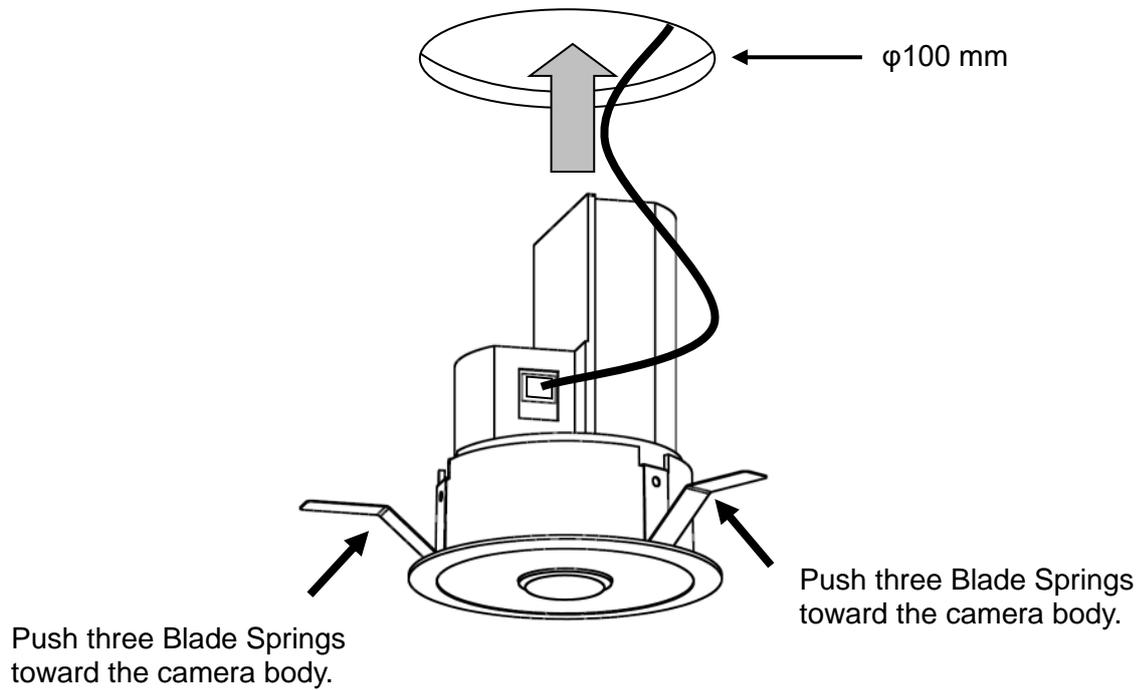
- (1) Drill a through hole of  $\phi 100$  mm at the suitable place of ceiling to install the camera.
- (2) Line a LAN cable come through the hole.
- (3) Connect the LAN cable to the Network Connector (②) of the camera.



Note 1: If excessive load is applied on the connection of Cable to the product, the power line may be disconnected. It is recommended to fix the connection firmly by taping.

Note 2: Line the LAN cable with sufficient length.

(4) Insert the camera into the hole with pushing three Blade Springs (③) toward the camera body.



Note 1: Applicable thickness of the ceiling board is 5~25 mm. Any soft material such as the rock wool is not acceptable.

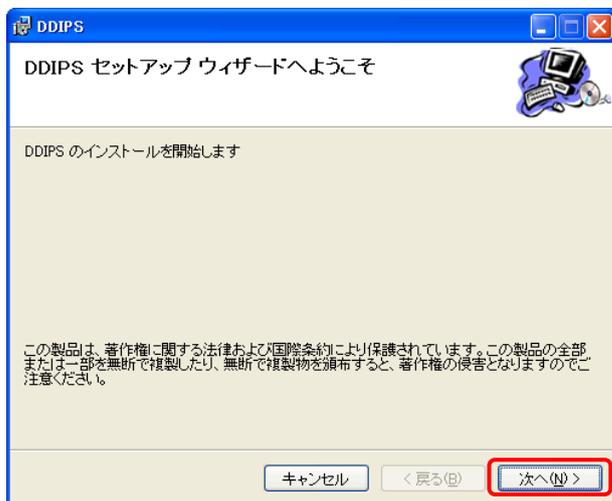
Note 2: Although the pressure of the Blade Springs is powerful, push them until they touch to the camera body. However in that case, please be careful not to injury your fingers and hand.

## 5. Installation of Application Software

- ① Execute “DDIPSInst” in the enclosed CD.



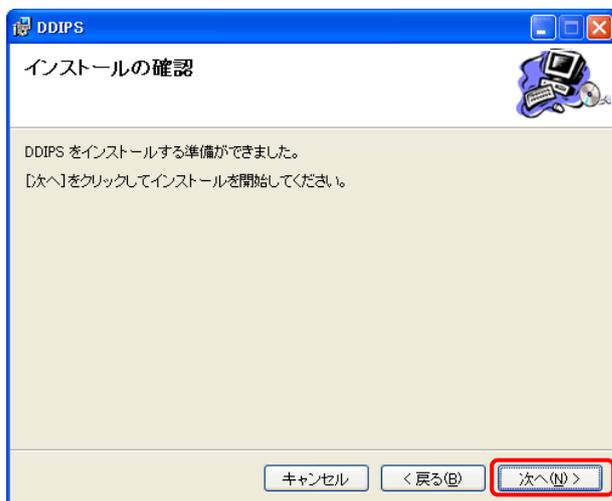
- ② The following window will open. Click 「次へ」.



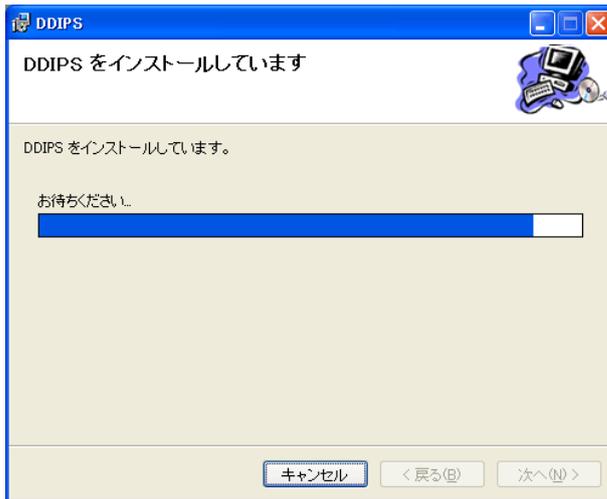
- ③ The following window will open. Assign a folder to install the file, and then click 「次へ」.



- ④ Click 「次へ」 at the following window.



⑤ Installation is executed.



⑥ When the following window is indicated, the installation is completed.  
Click 「閉じる」 to end up the process.



The below icon will appear on the display.



## 6. Connection (Initial Setting)

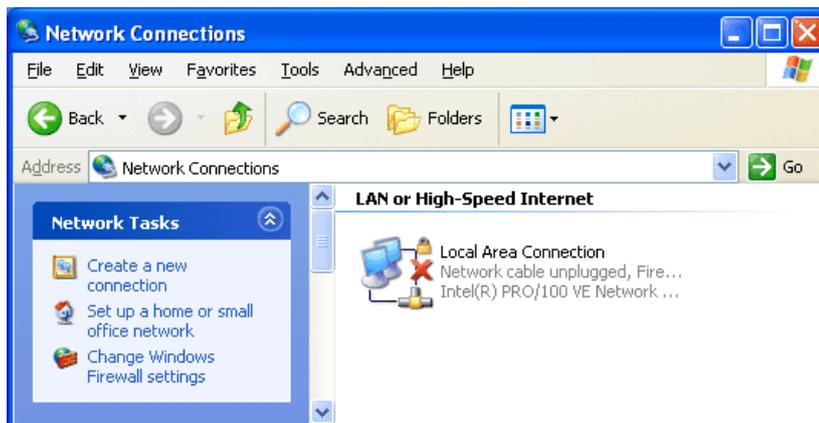
The setting process explained here indicates how to connect the Camera to your PC 1:1 directly with keeping the IP address of camera as the default setting.

### 6.1 PC IP Address Setting

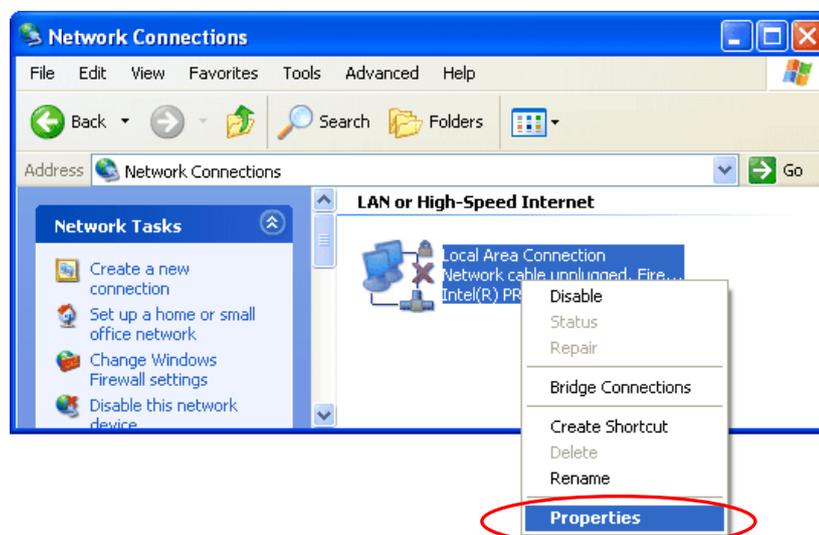
The default value for the IP address of the camera is the following:

IP address	192.168.1.100
Sub net mask	255.255.255.0
Default gateway	192.168.1.1
Port to use	7501~7505
Admin ID	root
Admin Password	root

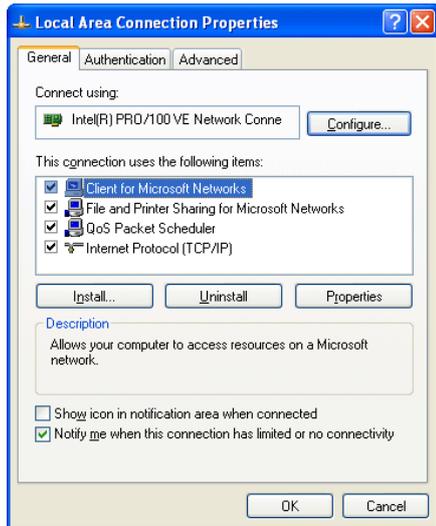
- (1) If a LAN cable is connected to your PC, first disconnect it.
- (2) At the Windows menu, select “Start” -> “Control Panel” -> “Network Connections” and activate the network connection.



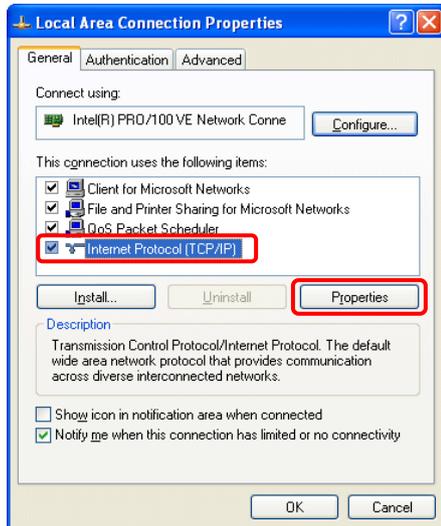
- (3) Right-click “Local Area Connection” and click “Properties”.



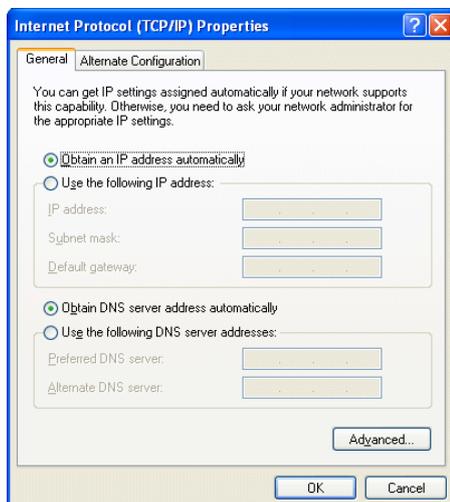
(4) “Local Area Connection Properties” is indicated.



(5) Select “Internet protocol (TCP/IP)” and click “Properties”



(6) “Internet Protocol (TCP/IP) Properties” is indicated.

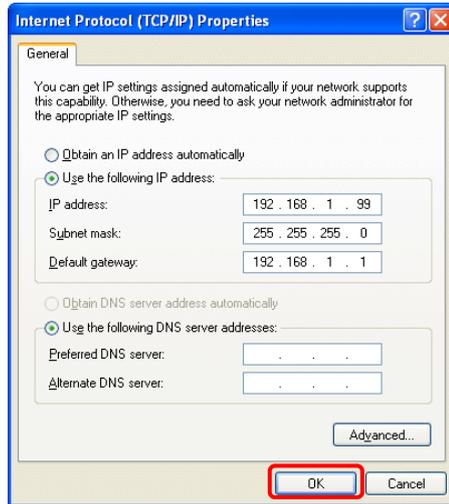


(7) Check at “Use the following IP address” and type the IP address as following.



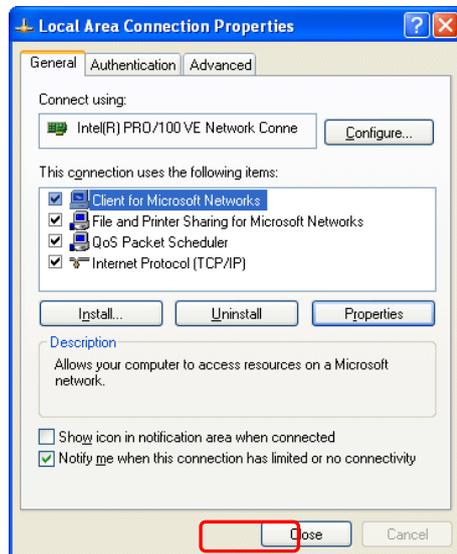
A dialog box titled "Use the following IP address:" with a radio button selected. It contains three input fields: "IP address:" with the value "192 . 168 . 1 . 99", "Subnet mask:" with the value "255 . 255 . 255 . 0", and "Default gateway:" with the value "192 . 168 . 1 . 1".

(8) Click “OK”.



The "Internet Protocol (TCP/IP) Properties" dialog box, General tab. The "Use the following IP address:" radio button is selected. The IP address, subnet mask, and default gateway fields are filled with the same values as in the previous step. The "OK" button is highlighted with a red rectangle.

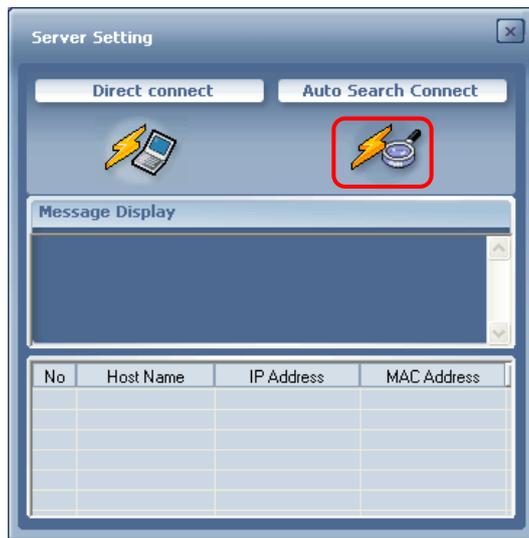
(9) Click “Close”.



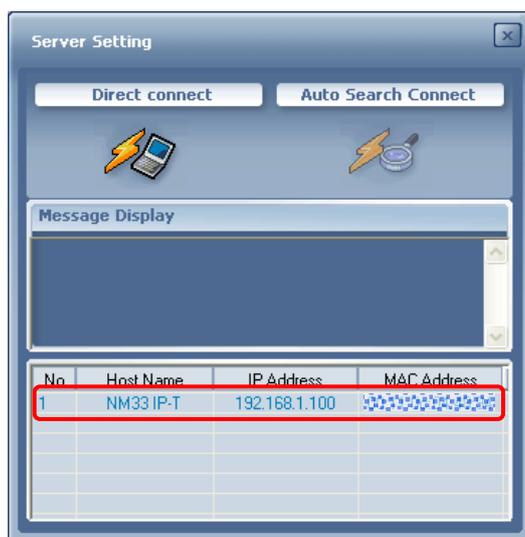
The "Local Area Connection Properties" dialog box, General tab. The "Client for Microsoft Networks" checkbox is checked. The "Internet Protocol (TCP/IP)" checkbox is also checked. The "Close" button is highlighted with a red rectangle.

## 6.2 Connection

- (1) Connect the “DATA+PoE” port of the PoE supported HUB with the camera by an Ethernet cable of Category 5e and more.
- (2) Connect the [DATA] port of the PoE supported HUB with the PC.
- (3) Power ON the PoE supported HUB.
- (4) Check the connections.
  - ① Wait for **more than 30 seconds** after turning the PoE supported HUB ON.
  - ② In the opened window, select “Start” -> “(all) Programs” -> “DDIPS” -> “DDIPS Admin”.
  - ③ When the “Server Setting” window is indicated, click the magnifier icon under the “Auto Search Connect”.



- ④ The information of the connected cameras is indicated.
- ⑤ If the IP Address is [192.168.1.100], all the connections are OK.



If any information is not indicated, wait for a while and click the magnifier icon again.

After checking the connection state, click X at right upper corner to close the “Server Setting” window.

### 6.3 Setting of the “DDIPS Viewer”

“DDIPS Viewer” is an application software to monitor the image from the camera. With the following process, register the camera to connect on the “DDIPS Viewer”.

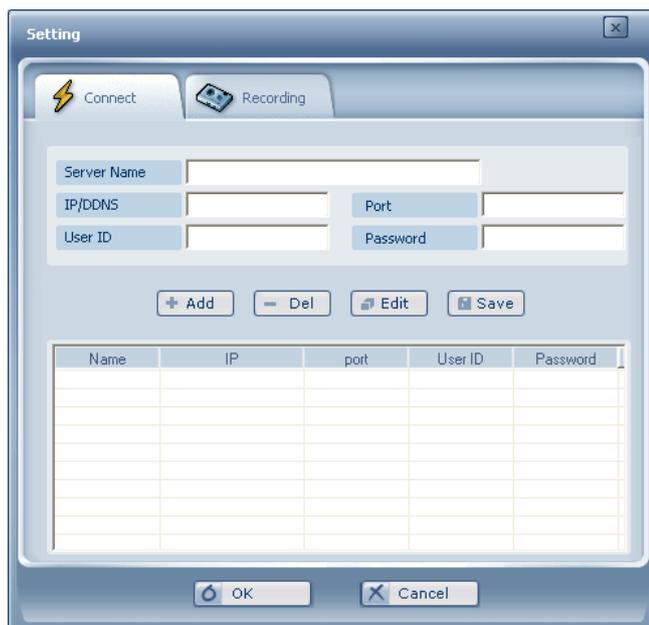
(1) Start up the “DDIPS Viewer”



(2) The following window is indicated.



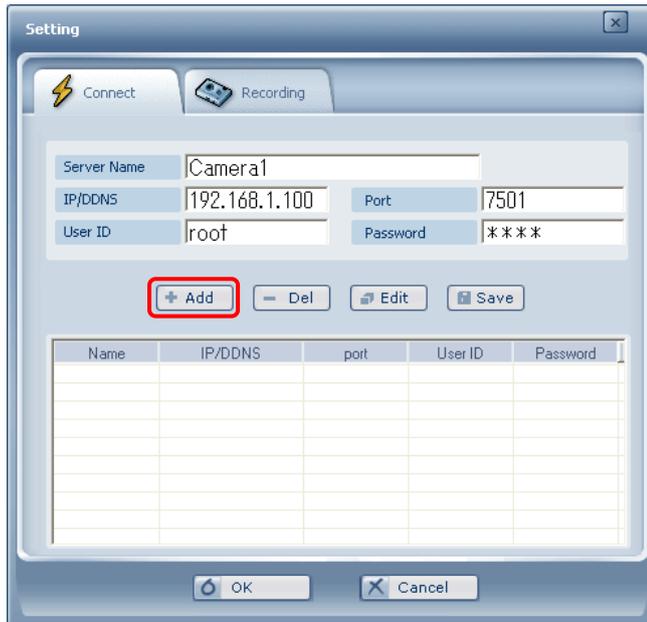
(3) Click “Setting”. The “Setting” window is indicated.



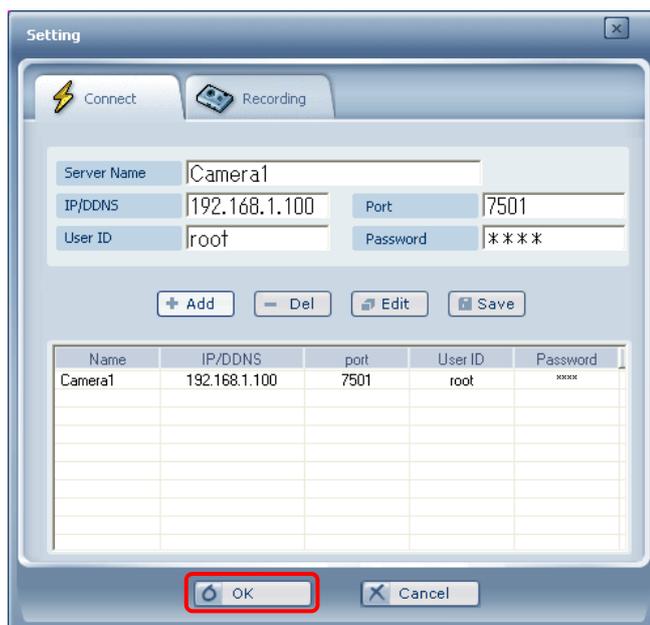
(4) Directly type as the followings.

Server Name	Camera1
IP/DDNS	192.168.1.100
Port	7501
User ID	root
Password	root

**Note:** As the Server Name, you can type an arbitrary easy name. In the above, “Camera1” is an example name.



After you complete the input of values, click the “Add” button.  
The information you set is registered in the Camera List.



(5) Then, the registration of the camera information is completed. Click “OK” to close the setting window.

(6) Click the “Connect” button in the Viewer screen.



The image from the connected camera is indicated in the screen.  
(The mode of image to be indicated depends on the setting of the camera.)



(7) Click the “Connect” button again to disconnect the connection.

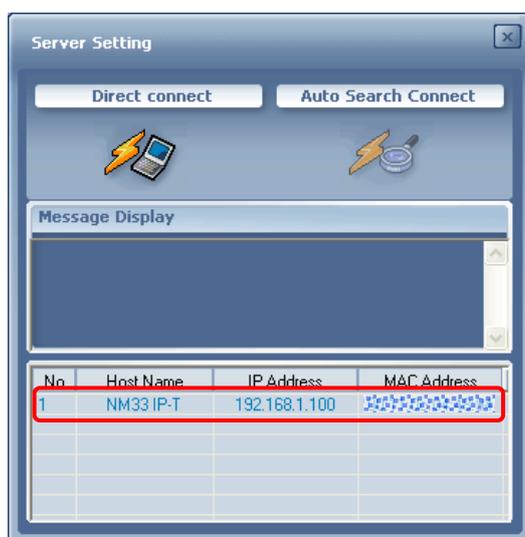
## 7. Connection (Personal Setting)

If connecting the camera in the LAN environment, it is required to set the IP Address of the camera to be identical to the specified IP address. In this section, it is explained to change the camera IP address information into the below example and connect to a PC.

IP address	192.168.11.12
Sub net mask	255.255.255.0
Default gateway	192.168.11.1
Port to use	7501~7505
Admin ID	root
Admin Password	root

### 7.1 Change of the setting value for camera

- (1) Follow the process from 6-1 to 6-2 (4) to indicate the camera IP Address information.



Double click the information indicated in the Camera List (inside of the RED frame in the above picture).

- (2) The "Confirm Admin" window is indicated as below.

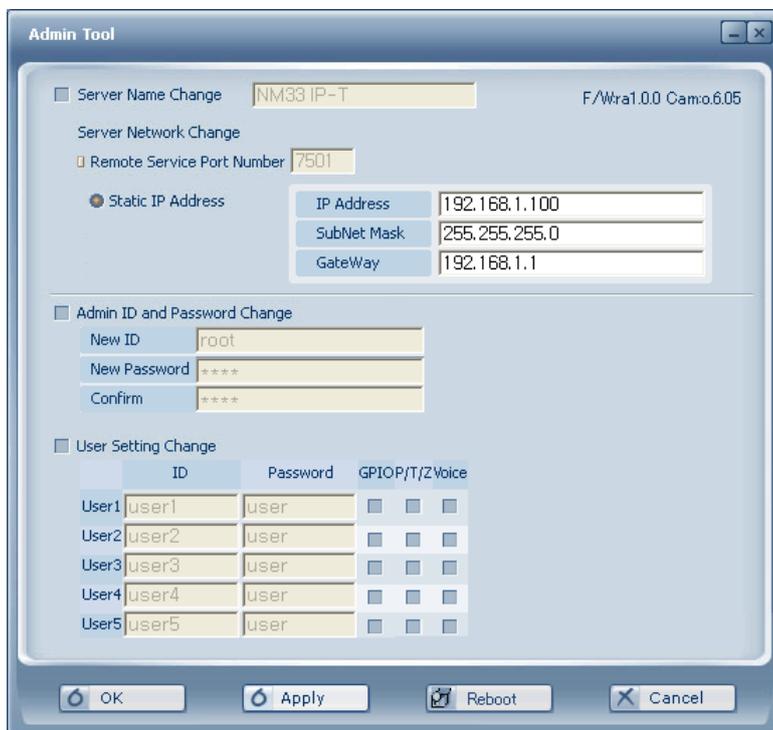


- (3) Type “root” in both of the ID frame and the Password frame.

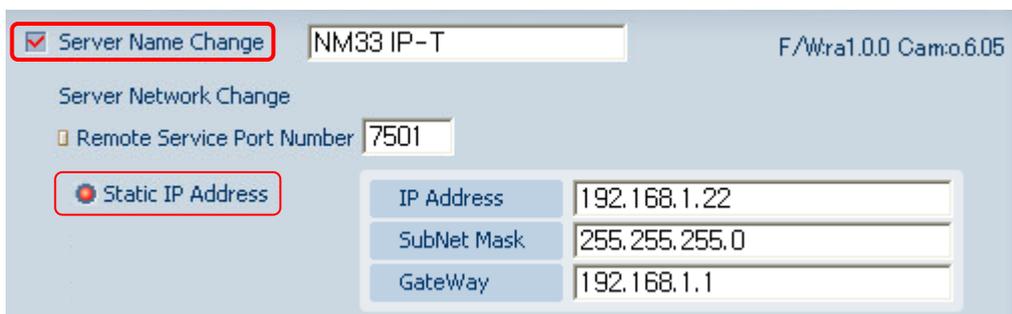


\*\*\*\* is indicated in the Password frame.

- (4) Click the “Apply” button.
- (5) “Admin Tool” is indicated, in which the setting value for the camera can be changed. The values currently applied are indicated for the IP Address and other factors.

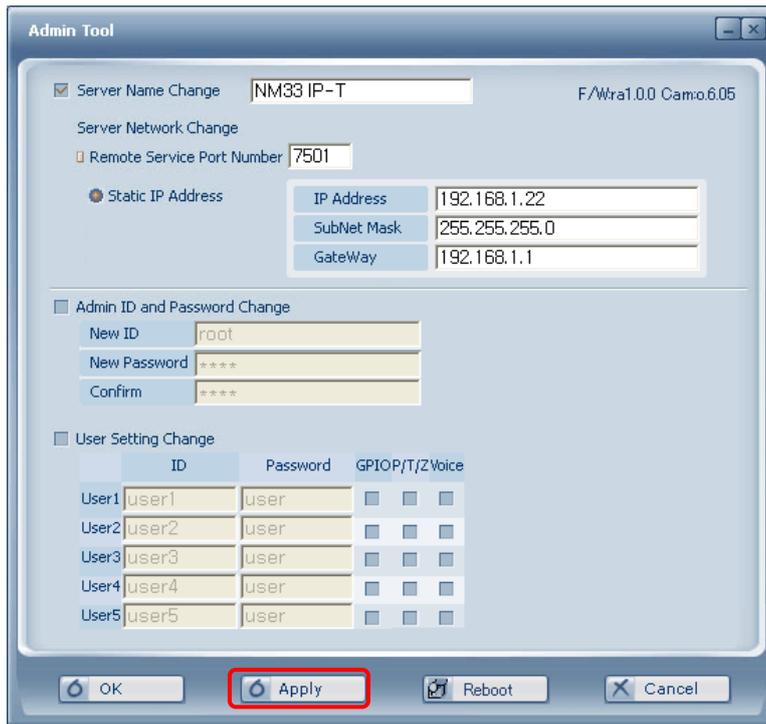


- (6) Check for “Server Name Change” and “Static IP Address”, and then directly type the values as following.



**Note:** Type the dot “.” in between the numbers of IP Address, SubNet Mask, and GateWay. As for the “Remote Service Port Number”, type the first port No. to be used. If type “7501”, the ports from “7501” to “7505” will be used.

(7) After complete to type, click the “Apply” button.



(8) When “Setup Data sent!” is indicated, click the “OK” button.



(9) If “Setup Data sent!” is indicated, click the “OK” button.

Now, the process of changing the camera setting value is completed.

**When re-start the camera (by turning OFF/ON the power for PoE supported HUB), the system will start working with the newly set values.**

(10) **The IP Address and other information of your PC used for the setting process must be returned to the original value used in the LAN environment.**

## 7.2 Connection

Take the same process as the section 6.2 to connect the system.

## 7.3 Setting of the DDIPS Viewer

Type the camera address and other information as well as the process described in the section 6.3.

Type “192.168.1.22” for the IP/DDNS at the process 6.3 (4), and the setting is completed. By clicking “Connect”, you can monitor the image from the camera.

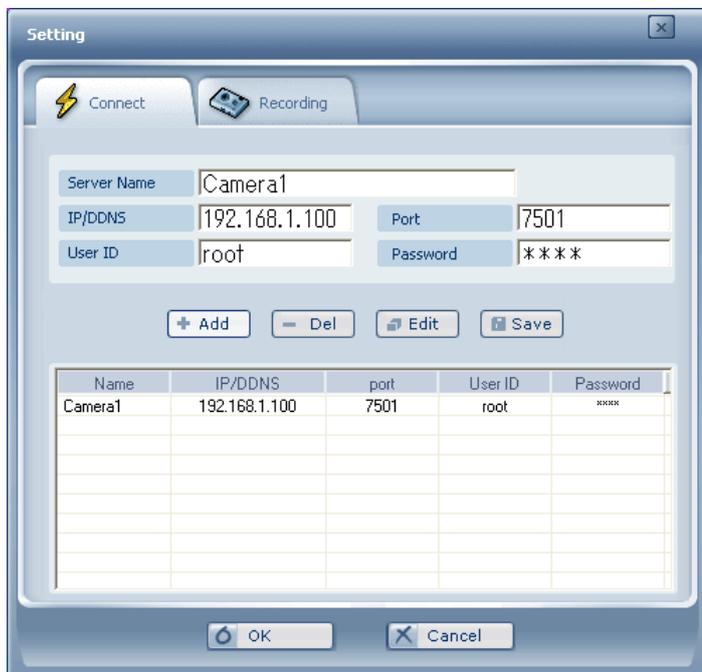
## 8. Connections (connect to the multiple number of cameras)

In this section, it is explained to connect multiple number of cameras with one PC in a network.

### 8.1 Registration the camera to the DDIPS Viewer

(1) First, open the Setting window of the DDIPS Viewer.

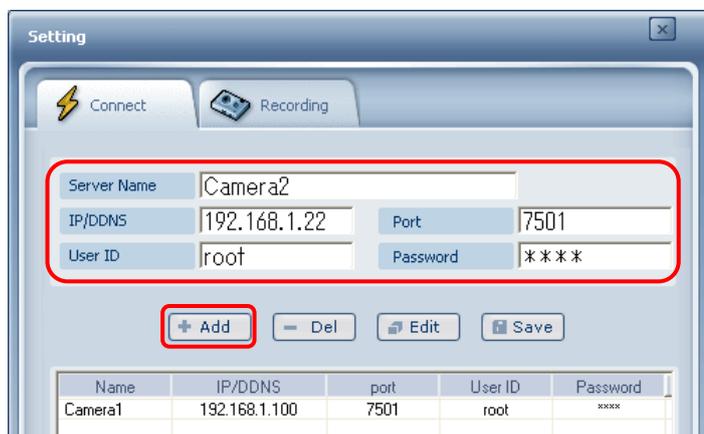
Assume that one camera of the below IP Address: 192.168.1.100 has been registered.



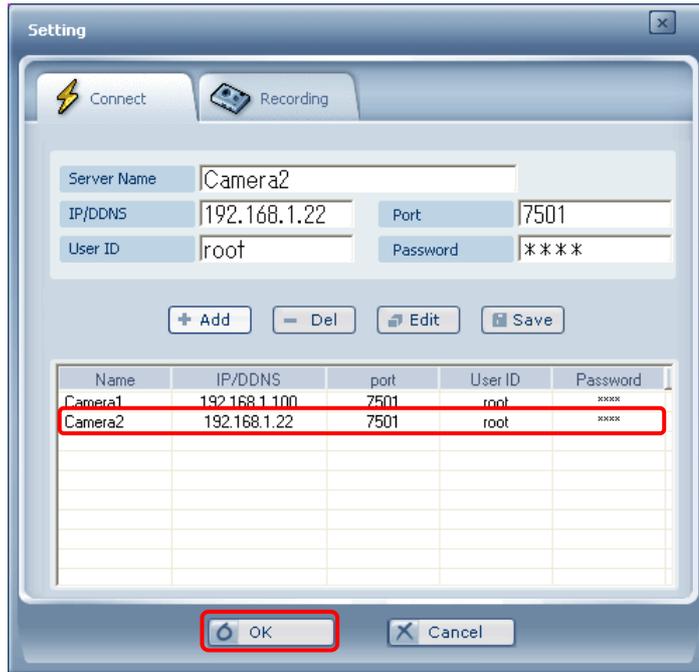
(2) Assume to add a new camera with the below setting value.

Server Name	Camera2
IP/DDNS	192.168.1.22
Port	7501
User ID	root
Password	root

(3) Directly type the setting value as well as the process in the section 6.3 (4).



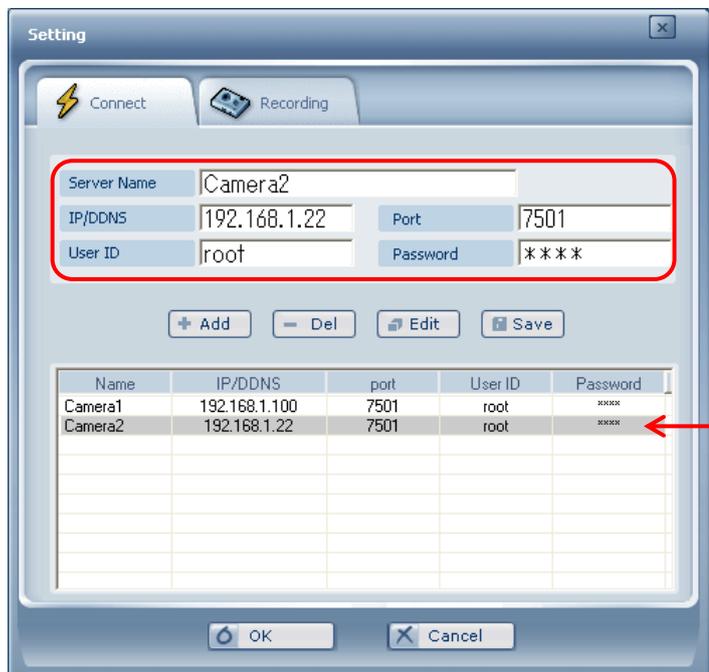
- (4) After completed the typing, click “Add”.  
The new information is added into the Camera List.



- (5) Click “OK”.

## 8.2 Connection to the newly registered camera

- (1) Open the Setting window of the DDIPS Viewer.



- (2) Check that the information in the above RED frame is the newly registered camera information. If the information in the RED frame is the one of other camera and the information of the newly registered camera is indicated in the below list (RED arrow in the above Figure), double clicking the camera information to operate will indicate it in the above area.
- (3) Click “OK”.

(4) Click “Connect” again to display the image from the newly added camera.

(5) Click “Connect” again to disconnect the connection.

### **8.3 Switch the Cameras**

If you want to see the image from another camera, click “Setting” and double click the camera to select in the Camera List. The camera name and information in the upper frame is switched into the intended camera.

Click “OK”.

Click “Connect” of the DDIPS Viewer, and the image from the intended camera is monitored.

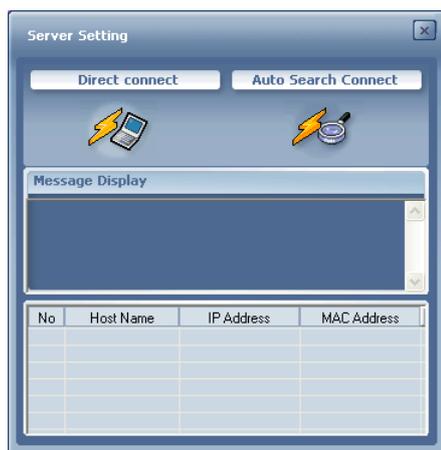
## 9. About the Software

### 9.1 DDIPS Admin

This is a software to handle the setting of the camera.

**Note:** When setting, connect the camera with a PC one by one. Please refer to the description in the section 2. Connection (Initial Setting), and set the IP address of the PC to the same group of the IP address of the camera.  
Type the setting values directly into each frame.

Double click the “DDIPS Admin” on the desktop to indicate the “Server Setting” as below.



In order to do the setting of the camera, access to the camera by “Direct connect” or “Auto Search Connect”.

#### 9.1.1 Access by “Direct connect”

When the setting information of the camera to access is known, this is usable.

- (1) Click the icon “Direct connect”.



- (2) The “Direct connect” window is indicated.



(3) Input the setting information

IP Address : type the IP Address of the camera to access.

Default value : 192.168.1.100

Port : type the port number of the camera to access.

Default value : 7502 (using port No. is 7501 ~7505, and the second value 7502 is used for the setting.)

ID : type the ID of the camera to access.

Default value : root

Password : type the password of the camera to access.

Default value : root

(4) After complete the typing, click “Apply”.

(5) Proceed to the section 9.1.3..

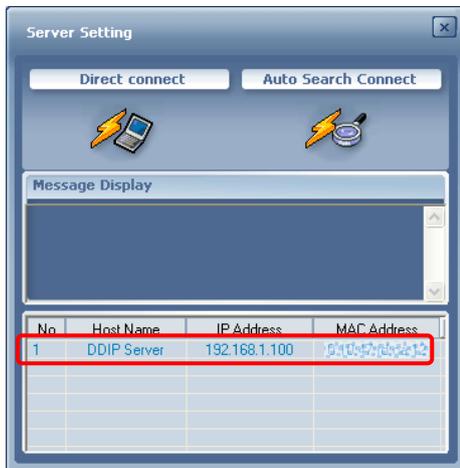
### 9.1.2 Access by “Auto Search Connect

“Auto Search Connect” can find the camera to access automatically.

(1) Click the icon “Auto Search Connect” (magnifier).



(2) The information of the connected camera is indicated.



(3) Double click the information of the camera (in the RED frame in the above figure).

(4) The “Confirm Admin” window is indicated.



(5) Type the setting information.

ID : type the ID of the camera to access.

Default value : root

Password : type the password of the camera to access.

Default value : root

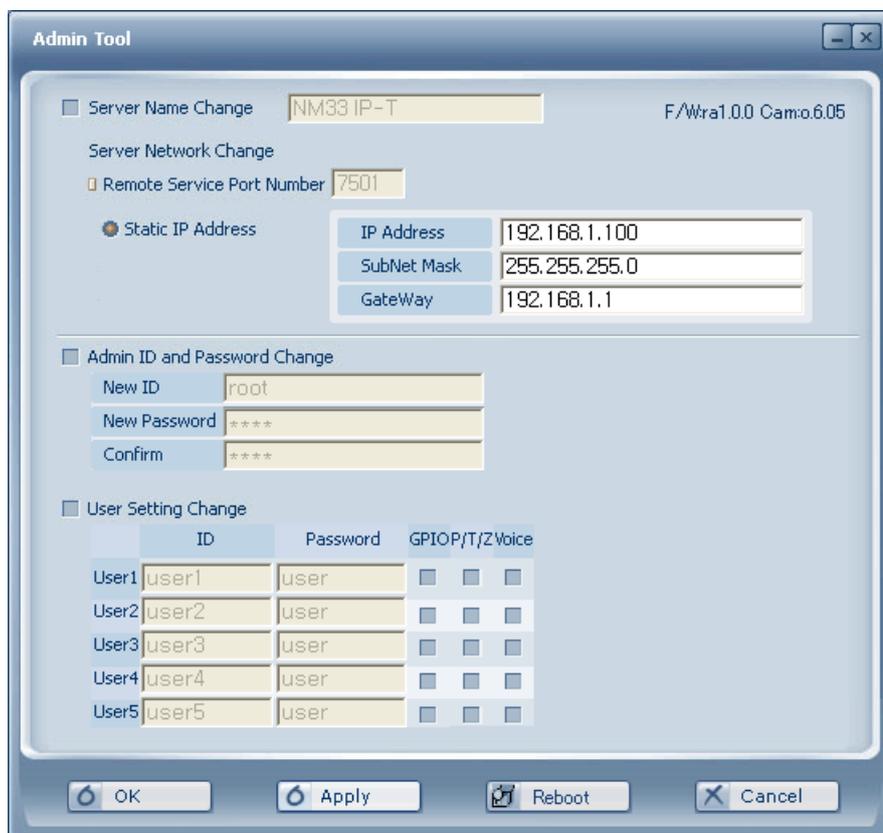
**Note:** Password is indicated as “ \*\*\*\* “.

(6) After complete the typing, click “Apply”.

(7) Proceed to the section 9.1.3.

### 9.1.3 Admin Tool

“Admin Tool” starts up when accessing to the camera by “Direct connect” or “Auto Search Connect”.

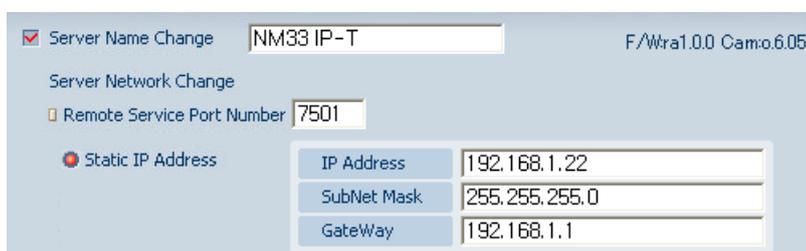


#### (1) Network setting

Do the network setting for the camera.

Please memorize the values to set here to avoid forgetting.

Click at the left frame of the “Server Name Change”. The setting becomes possible.



■ Server Name Change

Type an arbitrary camera name.

Default value : NM33 IP-T

■ Remote Service Port Number

Type the first port number to be used by the camera.  
(One camera can use 5 ports.)

Default value : 7501

■ IP Address, SubNet Mask, GateWay

Type each address. The default values are the followings.

IP Address	192.168.1.100
SubNet Mask	255.255.255.0
GateWay	192.168.1.1

**Note:** Ask a person in charge of Network setting

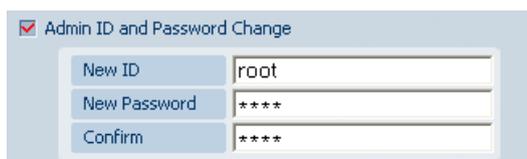
After complete the input, proceed to the section 9.1.3.(4)

**(2) Setting of the Admin ID**

Do the setting of the Administration for the camera.

Please memorize the values to set here to avoid forgetting.

Click the left frame of the “Admin ID and Password Change”. The setting becomes possible with a RED check mark. .



■ New ID : Type a new ID.

Default value : root

■ New Password : Type a new password.

Default value : root

■ Confirm : Type the new password for confirmation.

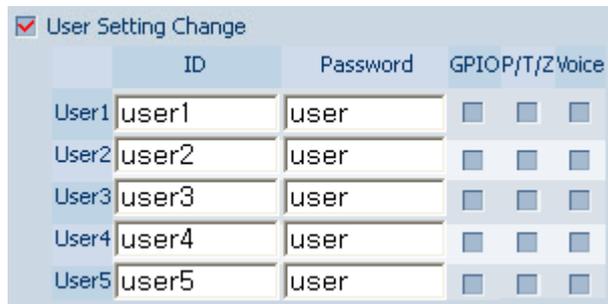
Default value : root

After complete the input, proceed to the section 9.1.3.(4).

### (3) User Setting

Do the setting of the user information, who can access to the camera.

Check the left frame of the “User Setting Change”. The setting becomes possible with a RED check mark.



	ID	Password	GPIO/P/T/Z/Voice		
User1	user1	user	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
User2	user2	user	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
User3	user3	user	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
User4	user4	user	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
User5	user5	user	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**Note:** The number of users possible to access to one camera is up to 5.

- ID : Type each ID.  
Default value : user1 ~ user5
- Password : Type the password for each user.  
Default value : user
- GPIO : not supported by this camera. Don't apply any value.
- P/T/Z. : Permit to control P/T/Z. Apply check if permit.
- Melody : not supported by this camera. Don't apply any value.

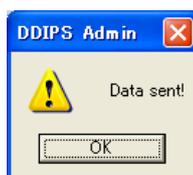
After complete the input, proceed to the section 9.1.3.(4).

### (4) After Input

After completing the input for each setting, click the following button accordingly.

- “Apply” button :  
Use this button for registering the setting information and continue another setting.
- “OK” button  
Use this button for registering the setting information and finish the setting.

When the following window is indicated, click “OK”.



## 9.2 DDIPS Viewer

This is a software to access to the connected camera.

As well as monitoring the image from the camera, controlling the camera is possible.

Double click "DDIPS Viewer" on the desktop, and the Viewer is indicated as below.



### 9.2.1 Main Screen (①)

The image from the connected camera is indicated.

### 9.2.2 Screen Setting (②)

Select the setting of the screen.

- 1X : normal screen : Indicate the image from one camera.



- 4X : tetrameric screen : Indicate the images from up to 4 cameras.



- Full : full size screen : Indicate the image in the maximum size of the display.

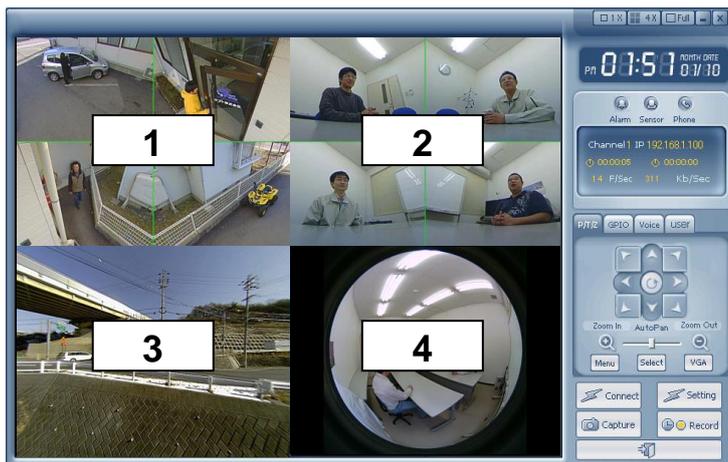
### 9.2.3 Date (③)

Indicates the current date and time.

### 9.2.4 Network (④)

Indicates the condition of the camera currently connected.

- Alarm : not supported on this camera.
- Sensor : not supported on this camera.
- Phone : not supported on this camera.
- Channel : Indicates the camera No. currently selected (possible to control).



- IP : Indicates the IP Address of the camera currently connected.
- 00:00:00 (left) : Indicates the time to have connected.
- 00:00:00 (right) : Indicates the time to have recorded.
- 0 F/Sec : Indicates the frame rate (frame per second) of the image transported.
- 0 Kb/Sec : Indicates the data capacity (Kbyte per second) of the image transported.

## 9.2.5 Camera Control Panel (⑤)

### (1) P/T/Z Operation Panel

This is the panel to control the Pan/Tilt/Zoom of the camera.



- Operation Buttons: Buttons to move the zoom area (the center button is not functional).



- Zoom Button / Auto Pan Bar :



**Zoom In** : click to zoom-in.

**Zoom Out** : click to zoom-out.

**autopan** : slide to pan the image automatically into the direction rightward or leftward.

**Note** : The auto pan function is available at the panorama mode.

- Menu Button : Switch the mode of the image from the camera. (Refer to the next page)
- Select Button : Switch the mode of the image from the camera. (Refer to the next page)
- VGA / QVGA / Large Button : Switch the image size into VGA (640x480), QVGA (320x240) and Large (1536x1536).

(2) **GPIO Operation Panel** : not functional on this camera

(3) **Voice Operation Panel** : not functional on this camera

(4) **User Information Panel** :

This indicates the information of the users who are currently connected.

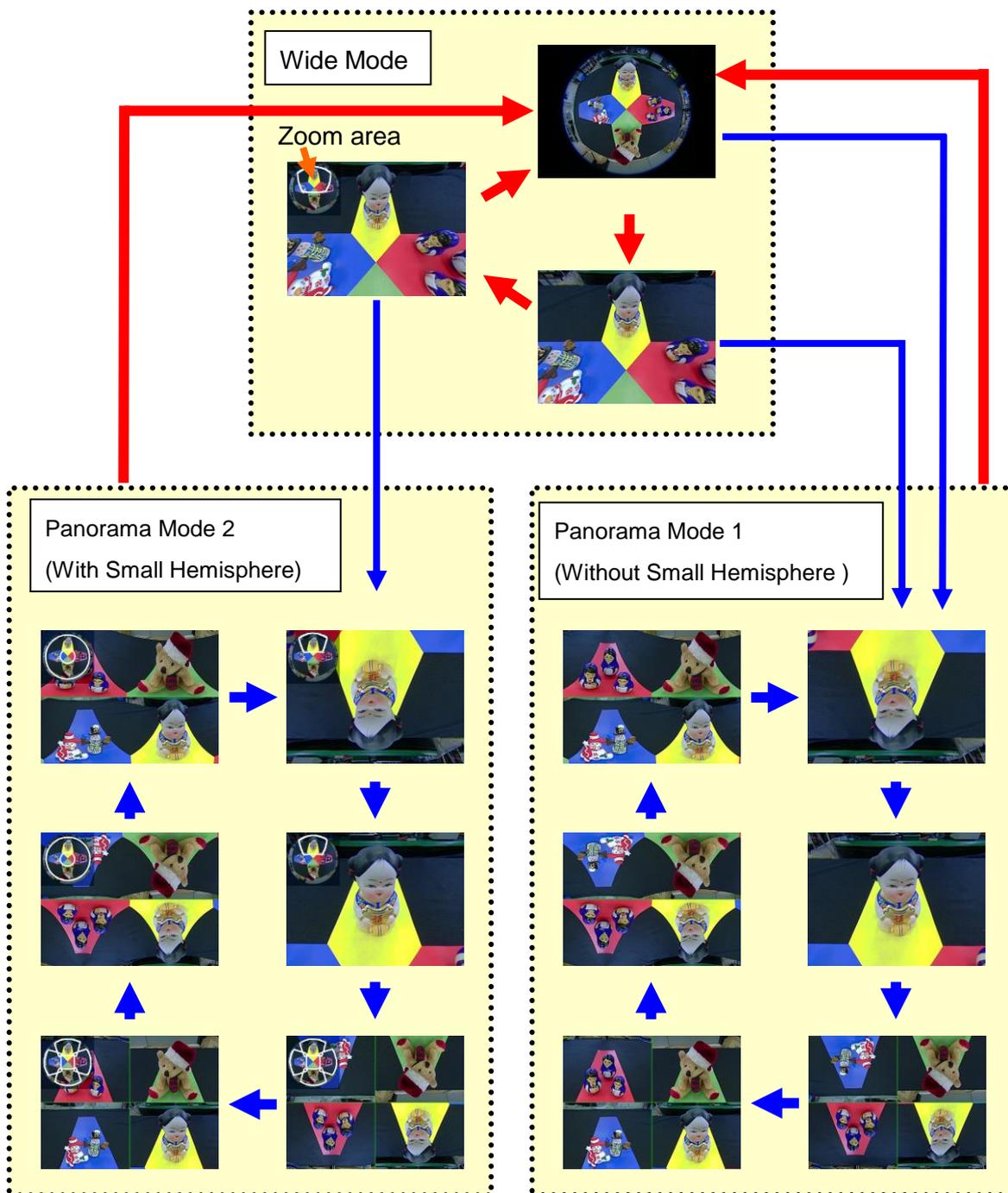
### About saving of the set value:

In order to save the image mode and the image position, press the “Select” button for more than 3 seconds until “Complete” is indicated in the display. The image will start with this condition until a new setting is saved.

## About the Switching the camera mode

The image mode of the camera can be switched by the “Menu” button and the “Select” button in the DDIPS Viewer in the following order.

← To be switched by the Menu button      ← switched by the Select button



## 9.2.6 Main Operation Button (⑥)



### (1) Connect :

To connect with the camera selected by the Setting procedure.  
Click to connect and another click to disconnect the connection.

### (2) Setting - Connect :

To add, delete, and change the information of the camera to be connected as well as to select the camera to be connected.

Name	IP/DDNS	port	User ID	Password
Camera1	192.168.1.100	7501	root	****
Camera2	192.168.1.22	7501	root	****

#### Input / Indication area

Input or indicate the information of the selected camera.

#### Camera List area

List of the registered camera is indicated.

- Server Name : To input or indicate the (arbitrary) name of the connected camera.
- IP / DDNS : To input or indicate the IP Address of the connected camera.
- Port : To input or indicate the Port number of the connected camera.
- User ID : To input or indicate the User ID of the connected camera.
- Password : To input or indicate the Password of the connected camera.
- Protocol : To select the Protocol of the connected camera. (Select TCP normally.)
- Add Button : After inputting the information of the camera to be registered into the Input / Indication area, clicking this button add the information into the Camera List.
- Del Button : To delete any camera information registered in the Camera List. Click the camera name among the Camera List to select,

and click this button to delete.

- Edit, Save Button : To change any camera information registered in the Camera List. Click the camera name among the Camera List to change, and click the “Edit” button to change.  
The information of the selected camera is indicated in the Input / Indication area, then change the information.  
After completing the change, click the “Save” button to record the changed information into the Camera List.

**Note** : To confirm the saving of the registered data, click the “OK” button.

### **Select the Camera to connect**

Double click the information (Camera Name, IP Address etc...) of the camera to connect among the Camera List.

The information of the selected camera is indicated in the Input / Indication area.

Click the “OK” button. Then click “Connect” to see the image from the selected camera.

### **(3) Setting - Recording :**

To set the Timer Record function.

When record the image, the PC to record must be connected to the selected camera and the image from the camera is displayed on the PC monitor.



- Recording Path : To set the folder to record the image data.
- Manual Record : To set a day of the week and the time period to record the image by checking for “Manual Record” and the desired day and

time period.

- User Setting : To set the time to start and stop the recording by checking for “User Setting” and inputting the desired time table.

**Note** : The capacity of the image from the camera through DDIPS is approx. 600 Kbyte/s.  
But it depends on the line condition and the camera mode.

**Note** : To confirm the setting, click the “OK” button.

To confirm the set value, click the “OK” button.

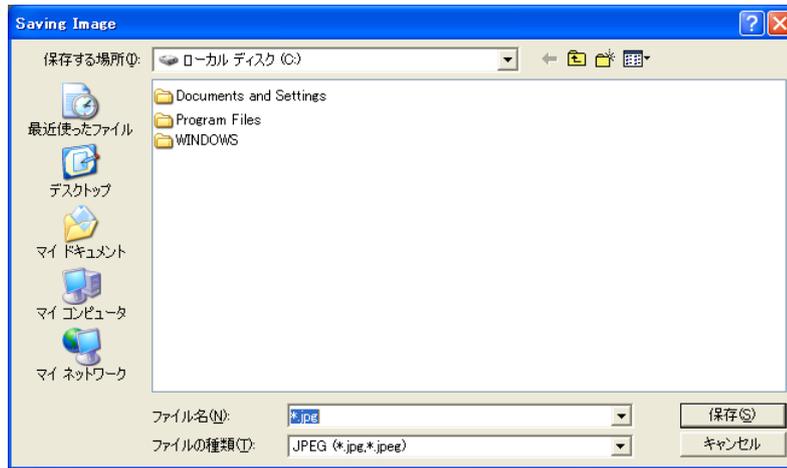
#### (4) Capture :

To save the still image by clicking this button when the image is monitored.

- ① Click the “Capture” button. The “Capture Viewer” screen is indicated.



- ② Click the “Save” button. The “Saving Image” is indicated.



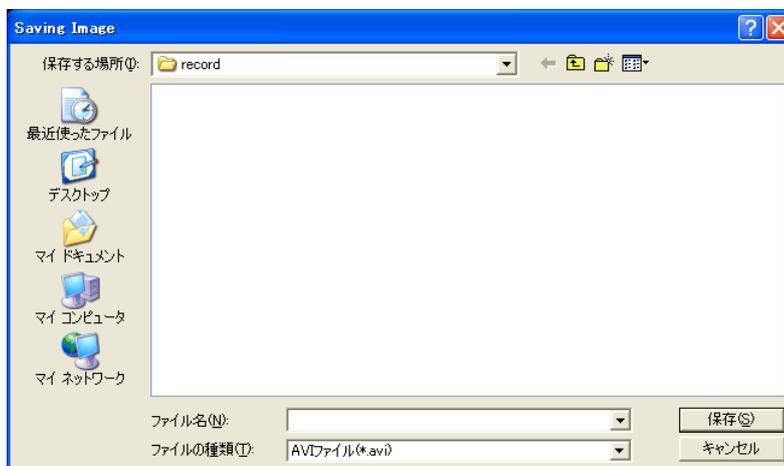
- ③ Select the folder to save the data, type the file name, and click “Save” .

#### (4) Record :

To record the monitored camera image.

The recorded image can be played back by the “DDIPS Player”.

- ① Click the “Record” button. The “Saving Image” is indicated.

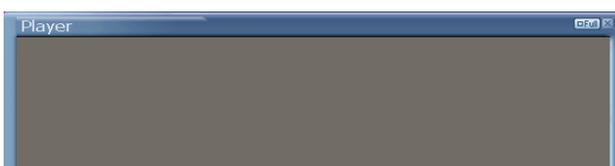


- ② Select the folder to record the data, type the file name, and click “Save”.
- ③ At the same time of clicking “Save”, the recording starts and the “Record” button lights on in red.
- ④ Click the “Record” button again to stop the recording.

### 9.3 DDIPS Player

This is a software to play the avi file recorded by the DDIPS Viewer.

Double click “DDIPS Player” on the desktop. The Player is indicated.



① Play screen : to indicate the image to play back.

② Date : to indicate the current date / time and the time of play back.



■ Date indicator : indicates the current date and time.



■ Play back time : indicates the playback time.



③ Controller : to control the playback image.



■  Reverse Play : playback in reverse.

■  Play : playback the designated image.

■  Pause : pause the play of image.

■  Stop : stop playing.

■  Rewind : fast feed in reverse.

■  Fast Feed : fast feed.

■  Skip Backward : skip back to the one file before.



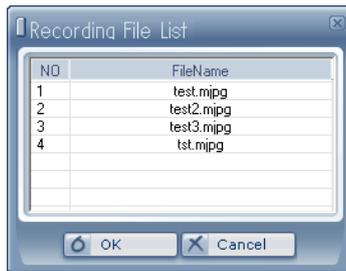
- Skip Forward : skip front to the one file later.

④ Selection of the image to play

-  Directly assignment : assign the directly where the image file to play is. Click here to indicate the “Browse for Folder”.



-  Select file : select the image to play. Click here to indicate the “Recording File List”.



Double click the file name to select.

## 10. Product Specification

Item	Description
Product Name	360°camera (model: CFC-360F-IP)
Lens	Object distance: 0 ~ infinity mm (from the surface of lens) Angle of view: 180+360 degree
Image sensor	1/2 inch Single-panel CMOS color method (RGB primary colors) Effective Pixels: H:2048 × V:1536, approx. 3.15 M pixels Pixels to use: approx. 1.85 M pixels Minimum object illuminance: 5 lux

Digital Output	Image compression technology: JPEG Image dimension: (640 X 480), (320 X 240) , (1536 x 1536) [Pixel] VGA/QVGA/Large Max. Frame rate: 15fps
Interface	10Base-T, 100Base-TX, RJ45connector
Protocol to support	HTTP, TCP/IP, UDP
Max. connection	5 (clients)
Operational Environment	Temperature: 5~35°C Humidity: 45~85% (no condensing)
Storage Environment	Temperature: -20~60°C Humidity: 5~80% (no condensing)
Power	PoE (IEEE802.3af)
Dimension	Size: $\phi 113.2$ (O/D) x approx. 141.2(H) [mm] (not including the spring part) Weight: 650g

## 11. Appearance

### (Camera Body)

