



Safety Precautions

	CAUTION RISK OF ELECTRIC SHOCK DO NOT OPEN	
<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>		



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 appliance.

Information for USA

This device complies with part 15 of the FCC Rules. Changes or modifications not approved by JVC could void the user's authority to operate the equipment.

Due to design modifications, data given in this instruction book are subject to possible change without prior notice.

WARNING:
TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

AVERTISSEMENT:
POUR EVITER LES RISQUES D'INCENDIE OU D'ELECTROCUTION, NE PAS EXPOSER L'APPAREIL A L'HUMIDITE OU A LA PLUIE.

INFORMATION (FOR CANADA) RENSEIGNEMENT (POUR CANADA)

This Class A digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la Class A est conforme à la norme NMB-003 du Canada.

**WARNING****■ Keep away from moisture**

Fire or electrical shock can result from the presence of moisture.

Spillage can occur from objects containing water (flower vases, flower pots, cups, cosmetics, pharmaceuticals, etc.) and should not be placed on top of this device.

■ Do not touch

Do not touch lines (antenna wires, phone lines, etc.) connected to this device or power plugs during a thunder storm because this can result in electrical shock.



- When installing this device, maintain a space of 10cm or more between this device and the wall. Also keep other devices at a distance to ensure good radiation. Internal heat can result in fire.

Warning

This is a class A product. In a domestic environment this product may cause radio interference in which case the user may be required take adequate measures.

PRECAUTIONS FOR SAFE AND PROPER USE

To ensure safety

■ **Always observe the following to ensure correct and safe usage of this device.** Read Safety Precautions thoroughly before using this device. The safety precautions contain important information and should always be observed. After reading, store in a readily available location for future reference.

Regarding Symbol Indications

Numerous symbols are employed as indication in the precautions for safety, precautions for handling, and in the indication to the products. These are designed to prevent in advance any possible infliction of injury on you and other individuals and the damage of properties through the proper use of the product. The symbols and meanings are shown below. Grasp the contents of the symbols completely before reading this manual.



WARNING

This represents the contents in which the probabilities for death or serious injury are assumed if this symbol indication is ignored and the product is erroneously handled.



CAUTION

This represents the contents in which the probabilities for injury to be inflicted are assumed and the contents in which material damages to be sustained are assumed if this symbol indication is ignored and the product is erroneously handled.

Examples of Symbol Indications



This symbol informs you of the presence of the contents that demands caution (including danger and warning). Specifically prohibited contents (caution against electric shock in case of the left symbol) are illustrated in the symbol.










This symbol informs you of prohibited actions. Specifically prohibited contents (prohibition of disassembly in case of the left symbol) are illustrated in the symbol and its vicinity.



This symbol informs you of the contents that forces you to take some action or gives you some guidelines or instructions. Specific contents of instructions (unplug the power cord from the outlet in case of the left symbol) are illustrated.



Cautions

- Do not install this device in locations such as the following.
To avoid the possibility of fire or electrical shock, do not install this device in locations such as the following. 
 - Where there is excessive humidity or dust.
Do not install where there is excessive humidity or dust.
Avoid locations with oil smoke or steam.
 - Locations where temperatures are high.
Do not install in locations where temperatures are extremely high due to direct contact with sunlight or proximity to a heater.
- Do not connect or disconnect the power cord or plug with wet hands because this can result in electrical shock. 
- Do not place heavy objects on top of this device.
Loss of balance could cause falling and result in injury or damage. 
- Do not stand on this device.
This could cause overturning and result in injury or damage. Use special caution with children. 
- Use only the specified accessories. 
Use only the accessories specified in the instruction manual with this device. The use of other accessories can result in fire or electrical shock. 
- Have your local dealer perform an internal inspection once every three years. 
Accumulated dust inside this device can eventually result in fire or malfunction if not removed periodically. It is more effective to have this inspection performed before the rainy season and when humidity is high. Consult your local dealer concerning the inspection fee.
- About CD-ROM handling
Do not bend or fold CD-ROMs.
- The power IN jack is exposed, so use caution to avoid shorting with metal objects, etc., when connecting and disconnecting the power cable.
- Do not allow children with the carton and bags used for packing because this could result in suffocation.

Cautions

- This instruction manual may not be reproduced in part or in its entirety.
- Use caution to avoid infringing the copyrights of others during use.
- Please note that this company does not assume any responsibility in the case of any possible errors that may be found in this instruction manual.
- The contents of this instruction manual are subject to change without notice.
- When this product is discarded, always observe all applicable laws and regulations.

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Before Recording or Saving Important Images

- Due to provisions of the copyright law, images recorded and saved from TV broadcasts and recorded tapes, etc., and recorded and saved images of printed materials such as posters, etc., cannot be used for any purpose other than personal enjoyment without the express written permission of the copyright holder.
- When recording important images, always make test shots beforehand to make sure that recording and display are correct. Also use caution concerning available hard disk capacity.
- Please note that compensation will not be paid in the case that normal recording and playback are not possible due to problems with this product or with the computer software, etc.

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About New Versions

- New versions of the software (VN-C3U) can be acquired via Internet. Download the software from the following. (under construction as of Feb. 29, 2000)
Home page: <http://www.jvc-victor.co.jp>

Package Contents

This product includes all of the following items. If any item should be missing, please contact your local dealer.

- VN-C3U main unit
- VN-C3U Controller CD-ROM
- Instruction manual (this document)

Operating Environment

The environment described below is necessary for operation of the VN-C3U.

A PC running Microsoft Windows95, 98 or NT.

- CPU
Pentium 133MHz or equivalent (200MHz or more recommended).
- Memory capacity
32MB or more (64MB or more recommended).
- Hard disk capacity
20MB or more.
- Display and video card
640 x 480 dots or more, High Color (1024 x 768 dots or more, True Color recommended).
- 10BASE-T
LAN board, connection cables.

LAN Environment

- 10BASE-T networks mutually connected by hubs, etc., that conform to IEEE 802.3.
- The VN-C3U and a PC can be connected directly by using a cross cable. (Although rare, the use of cross cables is not possible with some LAN boards.)

To ensure correct usage

- When installing, avoid the following.
 - Locations subject to rain and water.
 - Locations where the ambient temperature exceeds the range of 0 - 40 (recommended) degrees C.
 - Locations with vibration.
 - Locations with excessive dust, oil or gas.
- When this product is used with AGC on (Auto on), the sensitivity will be increased automatically in dark places, so the screen may flicker in some cases. This is not a malfunction.
- When this product is used with Auto on, in some cases the recorded colors may differ slightly from the natural colors due to the principle of the automatic tracking color balance circuit.
- When any bright object such as a lamp, etc., is photographed, white bands may appear above and below the bright object. This is called smearing, a phenomenon caused by the characteristics of the individual pixels, and is not a malfunction.
- When panning and tilting the VN-C3U, do not apply force to any part other than the body because this could result in damage or a malfunction.
- Use caution to avoid catching on the sensor insert button of the alarm input/output jack. In case this happens and disconnection from the alarm input/output jack occurs, return to the original location and use there.

VN-C3U Installation and Setup

Before starting installation and setup

It is necessary to set an IP address for each VN-C3U unit. Use the following procedure for the setup of each unit. (If the power is not turned on, the installation of multiple VN-C3U can be performed at one time.)

1. Install the VN-C3U

※ In case of installation in a location where the power cannot easily be turned on, complete steps 2 - 5 before step 1.

2. Connect the VN-C3U to the network and turn the power on.

3. Set the VN-C3U IP address.

※ When setting the VN-C3U IP address, be sure to contact the network administrator for assignment or approval. When installing the second and following units, reboot the PC and then return to step 2.

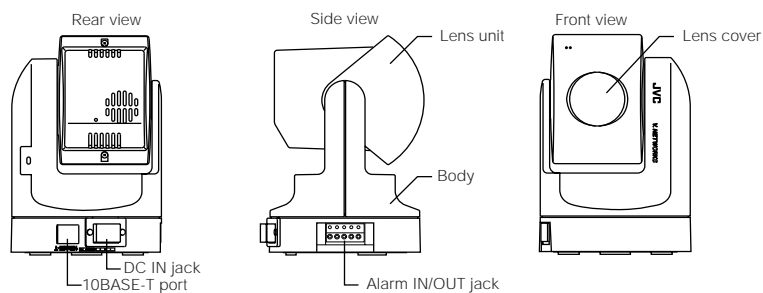
4. Enable the VN-C3U IP address.

(Turn the VN-C3U power off and then on again.)

5. Register the connection point.

※ This registers the VN-C3U IP address data in the PC.

Names of VN-C3U parts



Installation and setup

1. Installation

Use the optional bracket (Model VN-BK30) for installation.

Make the power and network connections after completion of the installation work.

Caution

Install in a location with sufficient strength to prevent falling.
VN-C3U units can only be installed as shown in the diagram below, or inverted. Do not install facing sideways.
Tilted installation is not possible.

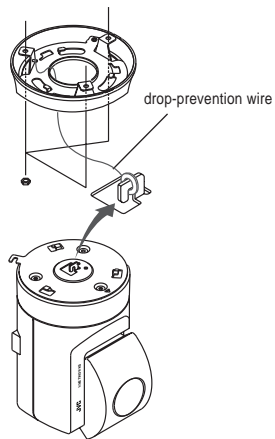
1 Attach the ceiling fixer with the P hole pointing toward the front of the camera.



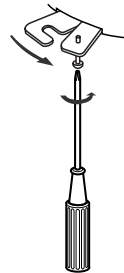
2 Mount the camera body fixer on the VN-C3U.



3 Attach the drop-prevention wire of the ceiling fixer to the camera body fixer.



4 Mount the VN-C3U on the ceiling fixer by rotating clockwise, then tighten the screw of the camera body fixer.

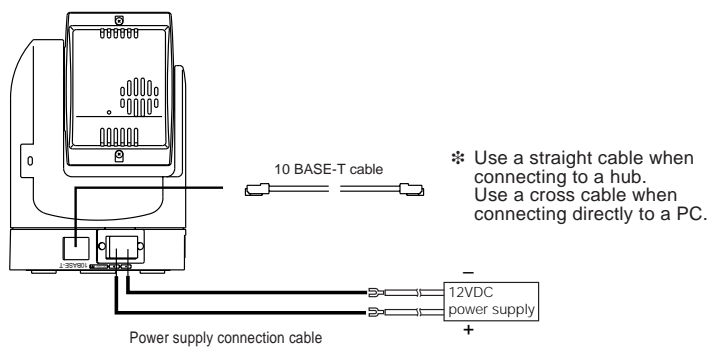


2. Connecting to a network

Turn on the power of only one VN-C3U unit.

When network connection is completed and the power is turned on, the VN-C3U unit will be connected to the network at the following IP address.

Factory set (Default) IP address	192. 168. 0. 2
----------------------------------	----------------



● About the power supply connection cable

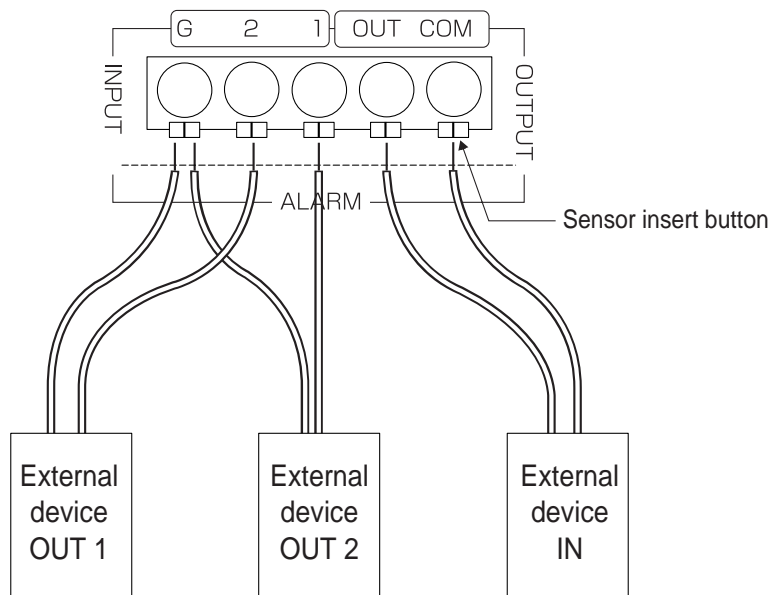
- Length: 30m or less.
- Recommended model: UL1007, UL1015 or equivalent cable with wire equivalent to ID AWG #20 or larger.

Caution

All VN-C3U units are set to the same IP address at the factory; therefore, if the power of multiple VN-C3U units is turned on at the same time, address duplication will occur and correct access will not be possible. Always turn the power on for only one unit at a time. If address duplication occurred, perform the proper processing and wait for 10 min. or more, or turn off the power of all units on the network and then turn the power on again; otherwise, correct access may not be possible.

Alarm IN/OUT connection

Connect external devices to the alarm IN/OUT as shown below.



● Cable connection and disconnection

Press the sensor insert button when connecting and disconnecting cables. After connecting or disconnecting, make sure the sensor insert button returns to its original position.

● About the alarm IN/OUT connection cables

- Length: use cables with a length of 50m or less.
- Recommended model: UL1007, UL1015 or equivalent cable with wire equivalent to AWG #22 - AWG #18.

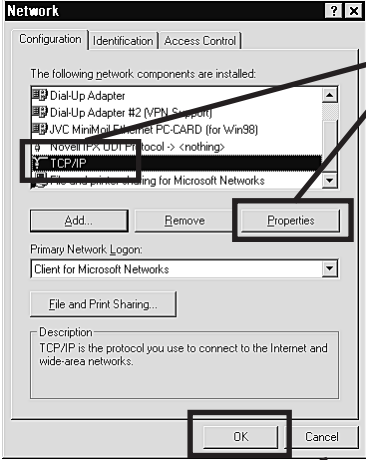
Caution

External noise may affect the alarm working properly even with a cable length of 50m or less. In such cases, it is necessary to either change to the use of shielded cable to prevent influence by noise or to change the wiring route to avoid passing close to the source of the noise.

3. Setting the VN-C3U IP address

3-1 Changing the IP address of the PC

Display the network settings panel by selecting **Settings** from the **Start** button, then selecting **Control Panel** and **Network**, in that order.

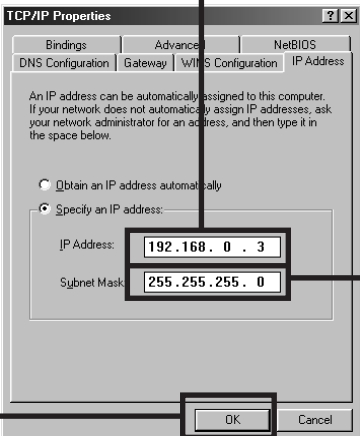


1 Select the TCP/IP item, then click on Properties.

2 Before making a change, always make a note of the original IP address. Change the IP address to 192.168.0.3.

3 Click on OK and then reboot the PC.

Set the subnet mask to a value suitable for the setting operation. If the value is unknown, check with the network administrator.

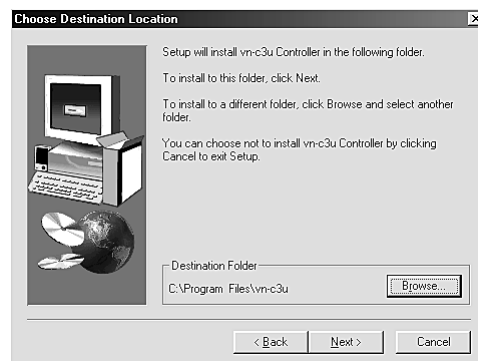
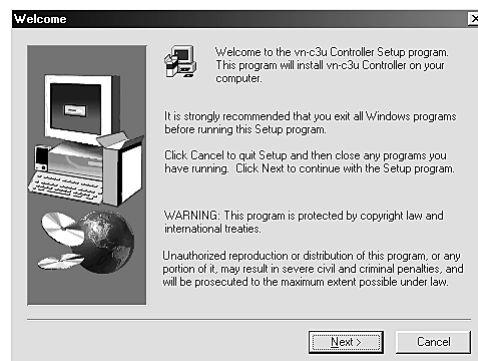


3-2 Installing the software

Load the VN-C3U Controller CD-ROM into the CD-ROM drive.

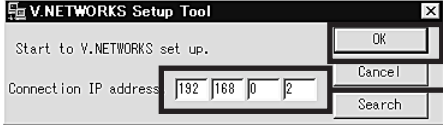
The setup program is in the ¥JVC folder on the CD-ROM.

Execute **¥JVC¥Setup.exe** and follow the displayed instructions to setup the software.

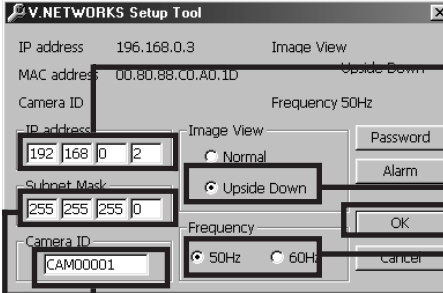


3-3 Setting the VN-C3U IP address

The V.NETWORKS setup tool is in the ¥Victor folder on the CD-ROM.
Execute ¥Victor¥setup¥vsetup.exe directly from the CD-ROM.



Enter the VN-C3U IP address.
Factory set (Default) IP address **192. 168. 0. 2**



Change to an IP address assigned or approved by the network administrator.
(192.168.0.2 is used as an example in the diagram.)

Specify normal installation (with the lens unit of the VN-C3U at the bottom of the body) or inverted installation (with the lens unit of the VN-C3U at the top of the body), depending on the installation conditions.

This setting reduces flicker under fluorescent lighting.
Specify 50Hz or 60Hz in accordance with the power supply frequency used in the installation area.

The camera ID corresponds to the identification code located on the VN-C3U body. Only alphanumeric characters can be entered.
The user does not participate directly.
Normally, consecutive numbers such as CAM00001, CAM00002..... will be set.

Set the subnet mask to a value suitable for the setting operation. If the value is unknown, check with the network manager.

※ Refer to the next page for Password button and Page 20 for Alarm button.

Password function

An access protection using a password is provided to regulate connecting PCs (users). Password setting and cancellation is performed by the V.NETWORKS setup tool.

Caution

Never forget the current password because the current password setting cannot be changed unless it matches the password setting.

The screen shown below will be displayed when the password button of the V.NETWORKS setup tool is clicked.

Enter the current password. In the case of new password setting, nothing need be entered. The characters entered will be indicated by asterisks (*).

When setting a password or changing the password, enter the same password as above and below. Nothing need be entered when password setting is being cancelled. The characters entered will be indicated by asterisks (*).

The change will occur when Yes is clicked.

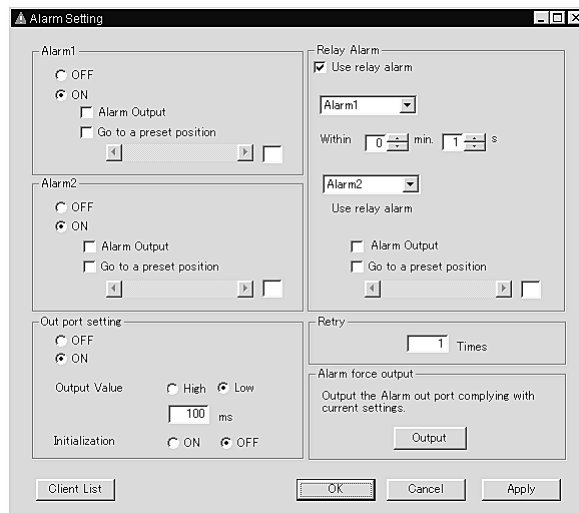
Password has been set. OK

Connection password. **** Cancel

Alarm function

This function is to receive or send an alarm signal from/to alarm input/output over network. Use the V.NETWORKS setup tool for the fundamental settings.

When the Alarm button of the V.NETWORKS setup tool is clicked, the screen shown below will be displayed.

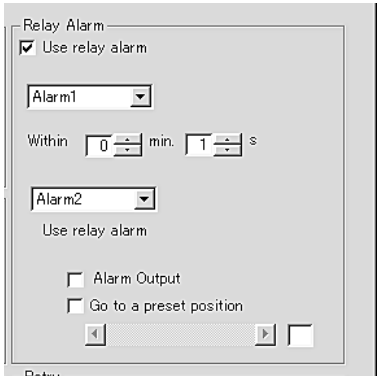
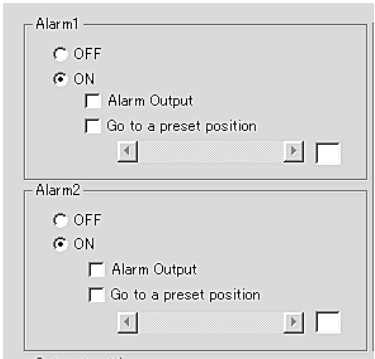


The procedure for the alarm settings is explained on the following page.

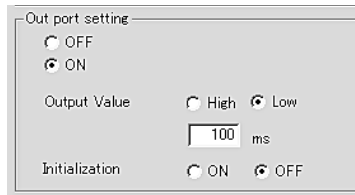
Caution

When VN-C2U or VN-C1U is controlled from VN-C3U controller, the alarm setting is not available.

The Alarm 1 and Alarm 2 settings determine whether or not the alarm function on Alarm 1 and Alarm 2 are effective (ON or OFF). When ON is selected, "Alarm Output" (to send a signal to Alarm out) and "Go to a preset position" (one of the 10 preset positions) are available.



When the Alarm 1 and Alarm 2 receive signals in sequence, use the Relay Alarm Function to make the different settings from the above mentioned Alarm 1 and Alarm 2 settings. Place a check beside Use Relay Alarm and specify the alarm occurrence sequence and the time interval.



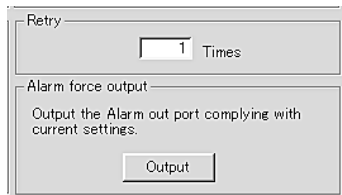
Out port setting includes the following settings:

OFF/ON: Determine whether or not an alarm is to be output.

Output value: Determine whether the High or Low signal will be output when an alarm occurs. Enter the time for continuous signal output of selected output value (High or Low) in the text box below.
 Example: High 100ms
 The High signal will be output for 100ms. After that, the output value will change to Low.

Initialization: Determine whether or not the alarm signal will be output one time when the power is turned on.

※ Set the values of Out port setting in accordance with the device to which the output is to be sent.



Retry: Determines the number of retries (1 - 3) to be made when alarm input arrives.

Alarm force output: Press the Output button for compulsory alarm output from the camera alarm Out port in accordance with the current alarm Out port settings. This can be used for checking devices connected to the output port.

Client List

The list of alarm broadcast client (IP address and port number) currently registered in the camera can be displayed by pressing Client List. The PCs that satisfy the following conditions are displayed.

- The VN-C3U controller has been started and is connected to the VN-C3U subject to setup.
- Checks are placed at Settings and Alarm Reg.



PCs can be deleted from the broadcast client list by selecting the IP address and pressing Delete.

Return to Alarm Setting window by pressing OK.

Caution

Once the PC is deleted from the Broadcast client list, the alarm does not function.

Caution

The V.NETWORKS setup tool can only be run on PCs which Setup.exe was executed on page 17. The V.NETWORKS setup tool does not function properly with PCs which Setup.exe has not been executed. With PCs which Setup.exe has been executed, operation is possible from not only the CD-ROM but also the hard disk, etc. where the setup folder is copied.

The V.NETWORKS setup tool is software that is necessary only for the setup operation; therefore, this software should be deleted at the end of the operation, except for PCs which may require this software for special reasons.

When setting two or more units, reboot the PC and then return to item 2 "Connecting to a network" (page 14). When all VN-C3U setting have been completed, proceed to the following item.

3-4 Restoring a work PC IP address

Using the same procedure as in 3-1, select Settings from the Start button, then select Control Panel and Network, Change to the original TCP/IP properties setting that you made a note and then restore a work PC IP address.

After restoration is completed, follow the messages of OS and reboot the PC.

4. Enabling the IP address setting

Turn the VN-C3U power off and then on again. (When the power is turned on, the pan/tilt reset operation will be performed; therefore, it is possible to confirm that the power was turned on correctly by observing the pan/tilt reset operation.)

* IP addresses changed with the setup tool become effective when the VN-C3U power is turned off and then on again. (The previous IP address will remain effective until the power is turned off.)

Search function

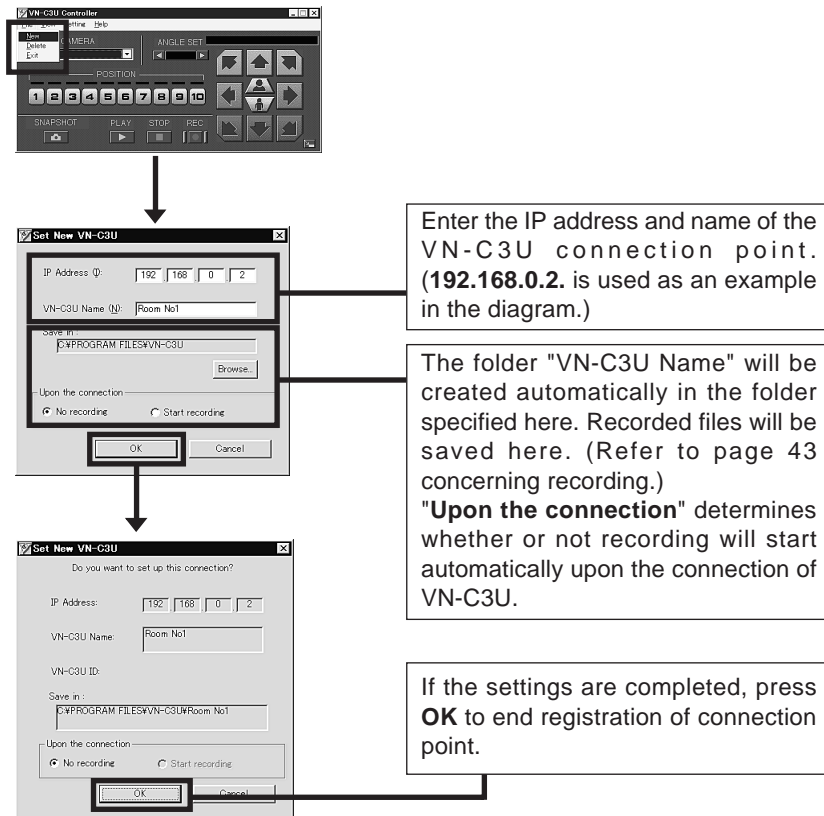
The Search button is used to find the V.NETWORKS IP addresses currently connected to the network.

When Search button is pressed, the Search screen will be displayed. When Start Search button is pressed, a list of the V.NETWORKS IP addresses currently connected to the network will be displayed. Timeout is used to set the search time and can be set to 0 - 30 sec.

Caution When your own PC and a V.NETWORKS of a different subnet are connected on a LAN, connection will not be possible even if the search is successful.
In such cases, change to an appropriate IP address on your PC and then try connection.

5. Registering connection points

Start the VN-C3U controller (VN-C3U.exe). Select **New** from the **File** item in the menu and then specify the connection point.



Enter the IP address and name of the VN-C3U connection point. (192.168.0.2. is used as an example in the diagram.)

The folder "VN-C3U Name" will be created automatically in the folder specified here. Recorded files will be saved here. (Refer to page 43 concerning recording.) "Upon the connection" determines whether or not recording will start automatically upon the connection of VN-C3U.

If the settings are completed, press **OK** to end registration of connection point.

Advice

- Copying registered connection points to another PC, VN-C3U connection points data is saved to a file with the .dat extension inside the folder created by VN-C3U controller.
- All the connection points settings can easily be copied to another PC by copying the file with the .dat extension.

Controller Software Operation

Starting connection and changing connection points

Refer to Software Installation on page 17 for the installation procedure.

When the VN-C3U controller (VN-C3U.exe) is executed, a logo will be displayed and then the following screen will appear.



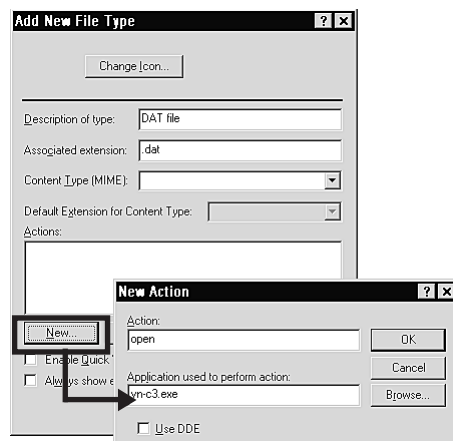
Connection points can be selected from this pulldown menu.

Connecting from the Settings file

Connection is possible by linking the VN-C3U.exe and vnet*.dat files and then double clicking the *.dat file.

Preparation

1. Start Explorer, then click on **Folder Options...** from the **View** menu.
2. Click on **New type...** of the **File Types** tab. Enter an explanation in the **Description of type** box.
Example: Dat file.
3. Enter ".dat" in the **Associated Extensions** box. Click on **New...** and then enter "open" in the **Action** box.
4. Specify "VN-C3U.exe" in the **Application used to perform action** box.
Example: C:\Program Files\VN-C3U\VN-C3U.exe

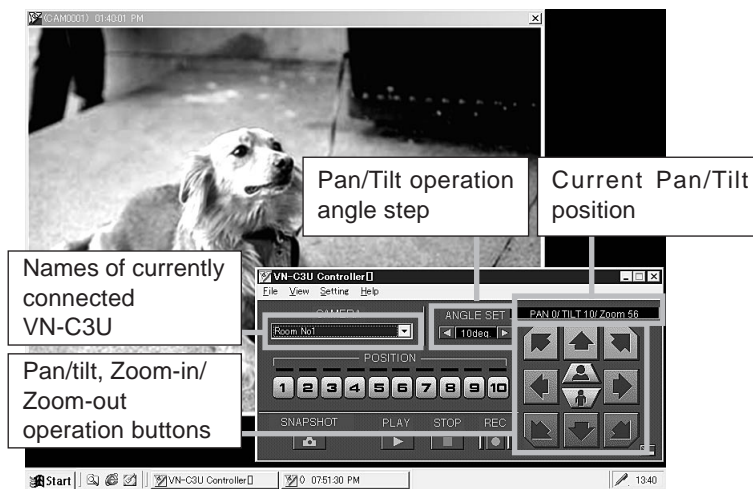


Caution

- This function cannot be used if the ".dat" extension has already been specified as the file type for another application.

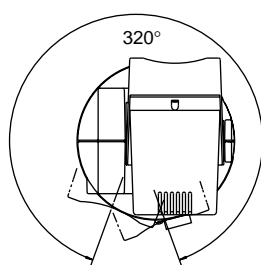
Controller 1

After a connection point is selected, you will find the names of currently connected VN-C3U, the pan/tilt operation angle step and the current Pan/Tilt position.

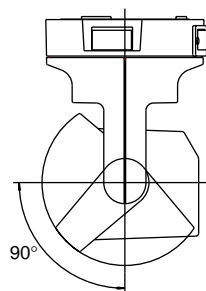


The Pan/Tilt operation angle step of connected VN-C3U can be changed by clicking on the left and right (\triangleleft \triangleright) buttons.

Pan/Tilt position can be changed with the Pan/Tilt operation buttons (8 buttons). Zoom in/Zoom out is performed by one step for each click of zoom button. If you keep pressing the button, Zoom in/Zoom out can be performed continuously.



Pan range



Tilt range

On-screen Pan/Tilt Function

Without using Pan/Tilt operation buttons, Pan/Tilt is manageable by double-clicking on screen. The double-clicking point becomes around the center of screen.



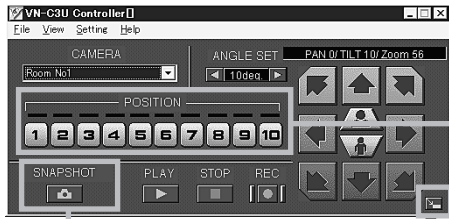
Caution

It is not possible to move beyond the Pan/Tilt limits but this is not a malfunction.

Caution

During the Pan/Tilt operation, the images may pause for a few seconds. This is because the position correction function is automatically being operated and this is not a malfunction.

Controller 2

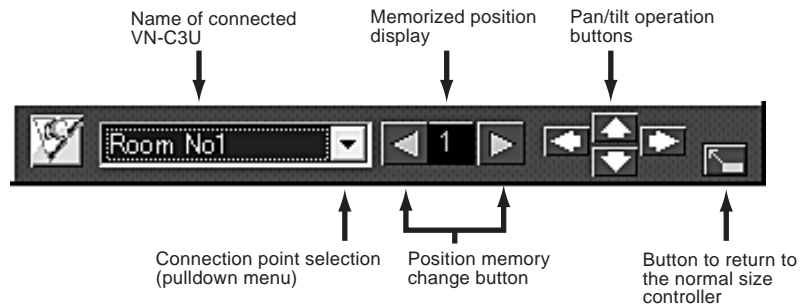


The VN-C3U controller has the position memory function (up to 10 positions). By pressing this button, the current position is changed to the already memorized position. Refer to "Changing position memory" on page 37 concerning changing the contents of the position memory.

The VN-C3U controller has the Snapshot function. This function allows you to capture still images or save them onto the hard disk. For details, refer to "Snapshot function" on page 46.

The size of VN-C3U controller can be smaller by pressing this button. It is possible to switch between the normal and smaller controller.

Smaller Controller



Caution

During the position memory operation, the images may pause for a few seconds. This is because the position correction function is automatically being operated and there is not a malfunction.

Controller 3



The VN-C3U controller has the record and playback function. For details, refer to "Record and playback function" on page 43.

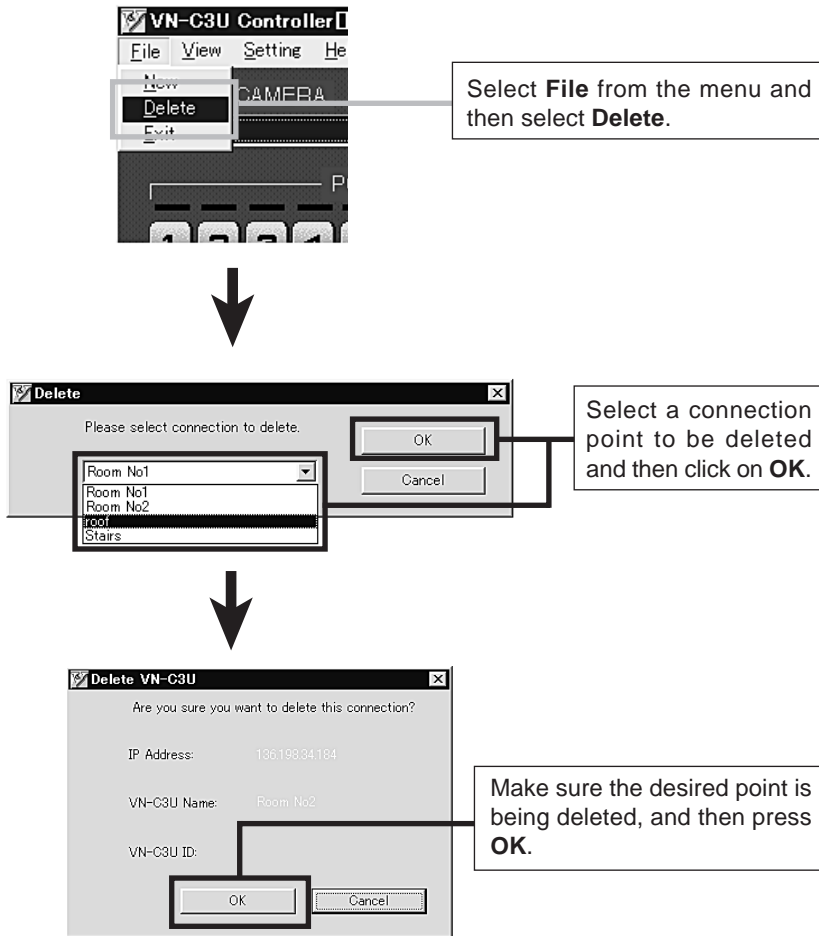
Pan/Tilt operation angle step can be set by clicking the value and directly enter any value. After entering (changing) the value, press the Enter key.

If the cursor is briefly positioned over the VN-C3U name, a balloon display of VN-C3U names will be displayed.

Creating new connection points

Refer to "Registering connection points" on page 25.

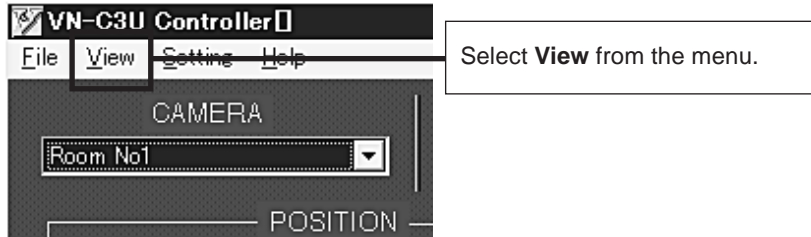
Deleting connection points



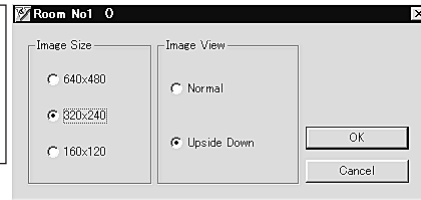
Caution

The connection point cannot be recovered once it is deleted.

Changing resolution and inverting the image



The resolution can now be selected from 160 × 120, 320 × 240 or 640 × 480. Depending on the installation, select Normal or Upside Down.



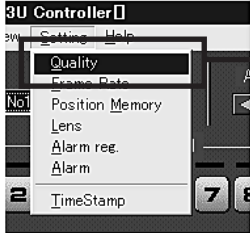
On-screen resolution change

The resolution can also be changed on the screen with the following procedure.

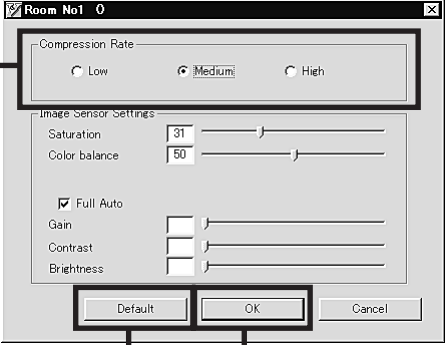


Click the right button of the mouse on the screen and select one of the following: 160 x 120, 320 x 240 or 640 x 480.

Image quality adjustment



Select **Settings** from the menu and then select **Quality**.



The compression rate is in inverse proportion to the image quality. The frame rate is in direct proportion to the compression rate.

Compression rate
Low — Medium — High

Image quality
High — Medium — Low

Frame rate
Low — Medium — High

This is set to the factory (default) value.

Click on **OK** to validate a setting change.

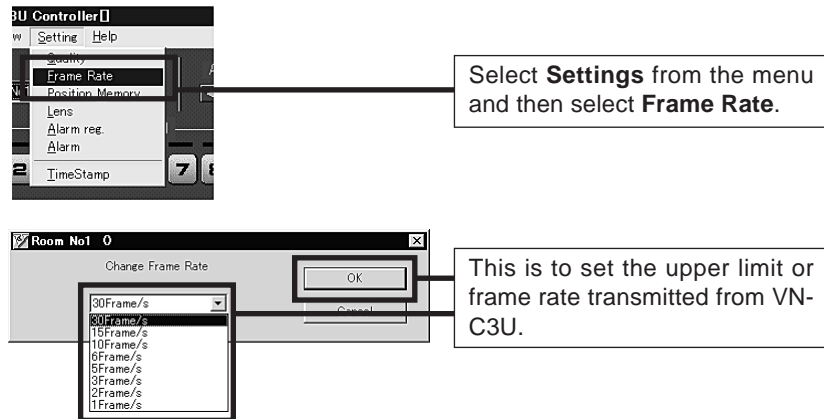
* Refer to the following pages for details concerning image quality settings.

Image quality settings

Image quality can be adjusted by changing each of the following settings.

Item	Effect
Saturation	Adjustment of the color saturation. (The larger the number, the greater the color saturation.)
Color balance	Move the slide bar to the right to emphasize blue or to the left to emphasize red.
Full Auto	This the Auto/Manual switch. (When the check is removed, the following three items will be switched to the Manual setting.)
Gain	Adjustment of the gain of the internal amp. (Use only when light is insufficient.)
Contrast	Adjustment of the contrast.
Brightness	Adjustment of the brightness.

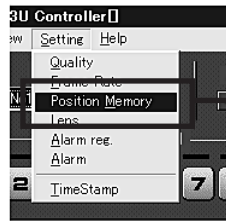
Transmission frames



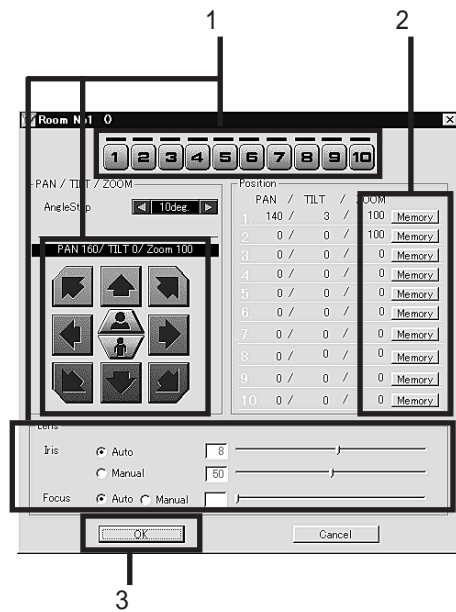
Caution

The actual frame rate depends on the operational environment (PC, LAN, phone line, etc.) and may be different from the transmission frame rate. In practice, the higher transmission frame rate is set up, the more bandwidth is required. Therefore, try to set the lower transmission frame rate if relatively low bandwidth is available for VN-C3U.

Changing position memory



Select **Setting** from the menu and then select **Position Memory**.



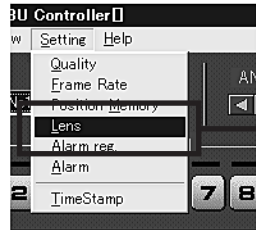
Procedure for **Position memory change**

- 1 Use the position memory buttons, Pan/Tilt/Zoom setting and lens setting to set the status in position memory.
- 2 Press one of these memory buttons in which the status set in step 1 is to be memorized.
- 3 Press **OK** to close the position memory setting window.

Caution

- When VN-C2U or VN-C1U is controlled from VN-C3U controller, the Lens Setting is not available.
- The position memory 1-6 is available for VN-C2U. (VN-C1U uses a fixed type lens)
- When the zoom scroll bar is set to the Tele end, the lens position may not be the same after changing its position.

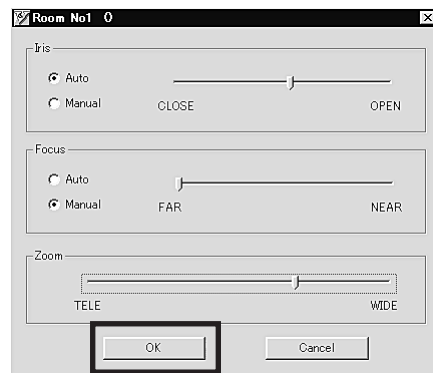
Lens setting



Select **Setting** from the menu and then select **Lens** settings.

Caution

This function is not available for VN-C1U and VN-C2U.



The current setting status is displayed in the window. After the setting is completed, press OK to close this window.

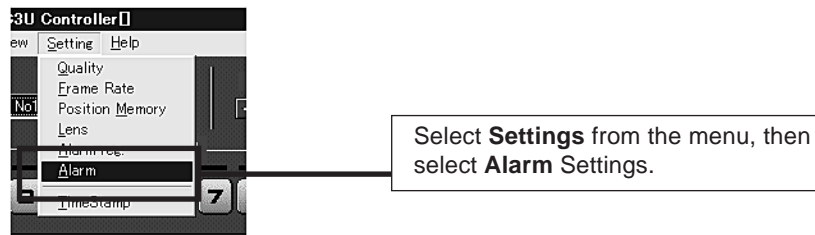
- When the iris is set to Auto, the amount of light entering the camera will be kept constant. When Manual is selected, the brightness of the screen will be kept constant. The scroll bar is used to perform the respective settings.
- When Auto is selected from Focus, the scroll bar will become inoperative. Operation of the scroll bar is possible when Manual is selected.

Advice

For locations where many people are passing by or operation of zoom at Tele, we recommend select Manual Focus to prevent continuous auto focusing.

Alarm setting

The alarm settings determines the actions to be performed when an alarm signal is received from Alarm 1 or Alarm 2 input of VN-C3U. Make sure to select "ON" in Alarm 1/Alarm 2 setting of V.NETWORKS setup tool (refer to page 21) to enable all the Alarm settings in this page.



There are four functions as follows:

- **Message Pop-up**
Pop-up the message entered in the text box. Up to 100 letters can be entered.
- **Recording start**
Start recording the images.
- **Play a wave file**
Play a specified wave file . Any wave files can be specified from the Browse button.
- **Execute a program file**
Execute a specified program file. Any execute (.exe) files can be specified from the Browse button.



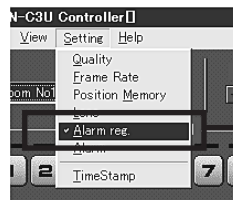
Relay alarm setting

The Relay Alarm Setting determines the actions to be performed when an alarm signal is received from Alarm 1 and Alarm 2 input of VN-C3U. There are two functions; Play a wave file and execute a program file. (Refer to page 39) Make sure to select "ON" in Relay Alarm Setting of V.NETWORKS setup tool (refer to page 21) to enable these Relay Alarm setting in this page.

Caution

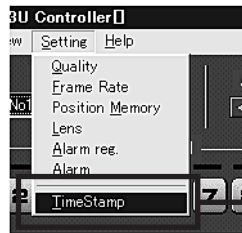
- When a large wave file (*.wav) is selected, the alarm operation may be delayed depending on the PC specifications. Try to select a relatively small wave file.
- In order to enable the Alarm 1, Alarm 2 and/or Relay Alarm setting it is necessary to
 - 1) Select "ON" in Alarm 1, Alarm 2 and/or Relay Alarm setting of V.NETWORKS setup tool (refer to page 21), and
 - 2) Check (✓) Alarm reg.
- When relay alarm has been set, the second alarm operations is not performed.

Example: When the Relay Alarm occurs in the sequence of Alarm 1 → Alarm 2, alarms operate in the sequence of Alarm 1 → Relay Alarm and Alarm 2 does not operate at all.

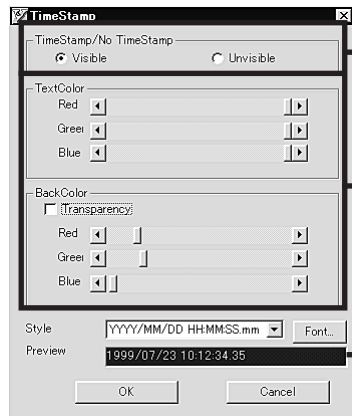


To enable the Alarm 1, Alarm 2 and/or Relay Alarm settings, it is necessary to check (✓) Alarm reg.

Time stamp setting



Select **Setting** from the menu and then select **Time Stamp**.



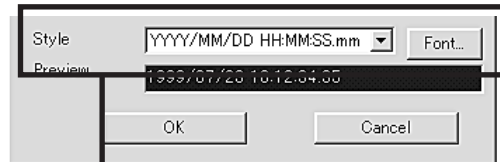
This setting determines whether or not the time stamp is displayed on the screen.

The color of text and background are adjustable. Select transparency if the background is not necessary.

The size of font in preview window does not change.

※ Changing the time stamp display position

On the screen, hold down the Shift key and click the left button of the mouse at the position where time stamp is to be displayed.



Any of the following 7 display styles can be selected.

YYYY/MM/DD HH:MM:SS.mm

(year/month/date hour: minute: second. millisecond)

YYYY/MM/DD HH:MM:SS

(year/month/date hour: minute: second)

DD/MM/YYYY HH:MM:SS

(date/month/year hour: minute: second)

MM/DD/YYYY HH:MM:SS

(month/date/year hour: minute: second)

MM/DD HH:MM:SS

(month/date hour: minute: second)

HH:MM:SS

(hour: minute: second)

HH:MM

(hour:minute)

Recording function

This function is to continuously record the images of connected VN-C3U onto automatically created folder with "VN-C3U Name." (refer to page 25)



Press the "REC" button.



"REC" appears in the upper right corner on the screen and recording starts.



Press the **Stop** button to stop recording. "REC" disappear.

* Never change the saved files and their name, otherwise all the saved images may not be correctly playback.

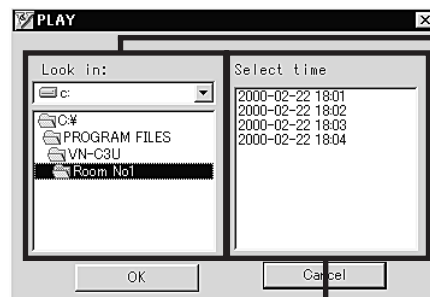
Playback function



Press the **Play** button.



When connecting VN-C3U, press **Yes** to quit current connection and start playback. This message does not appear if no VN-C3U is connected.



Select the folder where the recorded images have been saved.

The recorded time is indicated in the unit of one minute. Select the time for playback and press **OK**.



Indicate which file is being play back.

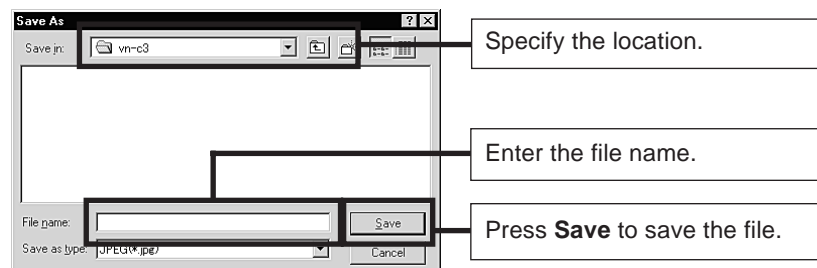
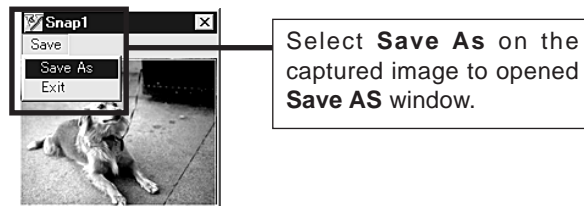
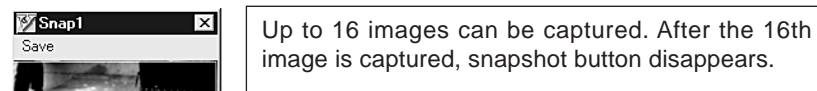
Press **PLAY** to start playback. Once playback is started, this button is changed to **PAUSE**.

Press **STOP** to stop playback.
Double-click to return to the playback time selection window.



Snapshot function

This function is to capture still images or save them onto hard disk.



Caution

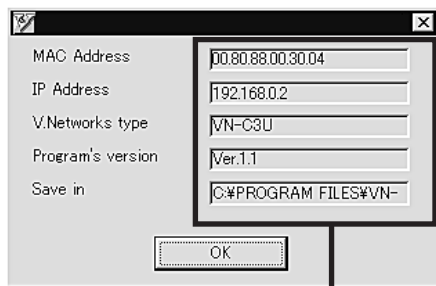
- Saved images can be displayed with ordinary viewer software. However, inverted images cannot be displayed inverted. Colors may also differ from those seen on the VN-C3U controller screen.
- Do not start other image viewing application while the VN-C3U Controller Software is active. This is particularly important with Windows 95 as it may cause a failure in saving snapshots. In this case, use the recording function to save images.

V.NETWORKS property

Display the property of connected VN-C3U.



Click the right button of the mouse on the screen and select **Property**.



MAC address

The MAC address of connected VN-C3U.

IP Address

The IP address of connected VN-C3U.

V.NETWORKS type

The camera model (VN-C1U, VN-C2U or VN-C3U)

Program version

The version of VN-C3U unit.

Save in

The location where recorded images are to be saved.

Troubleshooting

<p>An IP address changed with the V.NETWORKS setup tool has been forgotten.</p>	<p>The Search button of the V.NETWORKS setup tool can be used to acquire the IP addresses of V.NETWORKS cameras connected to the network.</p> <p>The change history file vsetup in the root directory is used to save contents that have been changed with the V.NETWORKS setup tool in the following formats.</p> <p style="padding-left: 40px;">IP before change, ID before change IP after change, ID after change Date/time (date/month/year/hour/minute)</p> <p>If the desired information cannot be found by viewing the vsetup file, this must be handled as a repair. Please consult your local dealer.</p>
<p>Recording is not possible.</p>	<ul style="list-style-type: none"> • It is possible to delete the folder used to save images. Check to make sure the folder exists. • It is possible for the disk to become full. Check the available capacity of the disk.
<p>The password set with the password protection function has been forgotten.</p>	<p>The disabling of the password protection function is handled as a repair. Please consult your local dealer.</p> <p>For safety, be prepared to show proper identification.</p>
<p>The message "Pan/tilt control is not being performed correctly." is displayed at the time of connection.</p>	<p>Turn off the VN-C3U power and then turn it on again. If there is no improvement, please consult your local dealer.</p>
<p>Time is required for cancellation when "Connecting..." is displayed.</p>	<p>Once the connection operation starts, cancellation is not possible for a period of several seconds.</p>

<p>The colors are not satisfactory.</p>	<ul style="list-style-type: none"> • Check the color adjustments of the display or video card. The colors displayed by different PC display monitors and video cards will differ to some degree. Improvement is sometime possible by adjusting the color settings of the display monitor. Depending on the video card, colors can sometimes be adjusted using Screen Properties (click the right mouse button on the desktop.) • Switching to True Color (24-bit) display Colors are sometimes not natural at the High Color (16-bit) or lower setting. It is recommended that you use True Color. • Adjusting color balance Colors can also be changed by using Color Balance from the image quality adjustment screen. • Turn Auto off and then on again. When different light sources have been used. (For example, when alternately using sunlight outdoors and fluorescent lighting indoors.) Time is sometimes required for auto tracking white balance to start operating. In such cases, white balance can sometimes be made to work quickly by removing the check from Auto in the image quality adjustment screen and then replacing the check. • Depending on the subject, the colors may appear to vary slightly in some cases. This is not a malfunction.
<p>The image size and position change spontaneously.</p>	<p>When one VN-C3U unit is connected to several PCs, the last PC to operate and set the VN-C3U unit will have priority.</p>



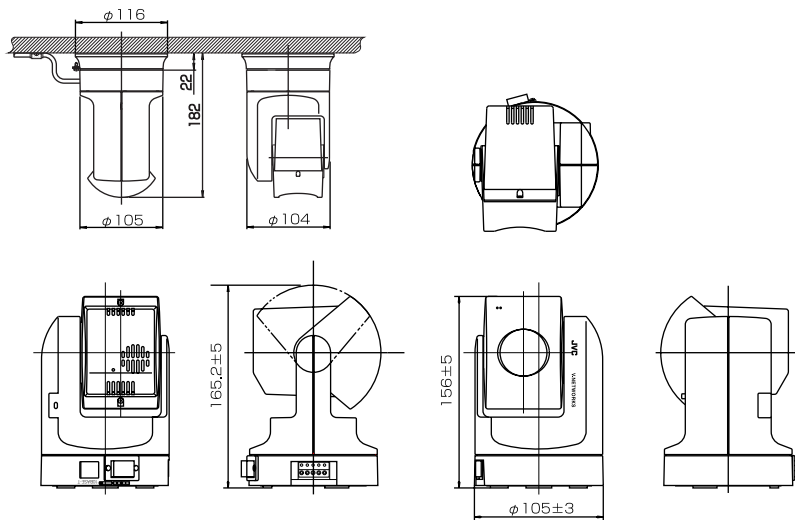
Out of focus.	The autofocus sometimes does not operate correctly in dark places and when blank surfaces such as walls are photographed. In such cases, focus manually. The focus may be off slightly when manual focus is used at the TELE position, but this is not a malfunction.
VN-C3U connection is not possible or the connection has been broken.	When there are multiple occurrences of broadcasts, collisions, etc., or when the network status is not normal, it may become impossible to connect the VN-C3U or the connection may be broken.



Specifications

LAN standard	IEEE 802.3
Communication protocol	UDP/IP
Video element	1/3-inch, 300,000-pixel CMOS image sensor.
Minimum focusing distance	1.0m
Pan/tilt operation angle	Pan: 320° Tilt: 90°
Output image format	640 × 480, 320 × 240, 160 × 120
Power supply voltage	DC 12 V
Power consumption	2.0 A (max.)
Operating temperature	0° C — 40° C
Mass (weight)	Approx. 730 g.
Alarm input	Non-voltage a contact input Low level. latch/momentary (500ms or more) Low level circuit current 1mA High level impressed voltage 5V
Alarm output	NPN open collector output (allowable impressed voltage: 12V; allowable input current: 300mA)

External dimensions (Unit: mm)





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V.NETWORKS

VN-C3U

INSTRUCTIONS



For Customer Use:

Enter below the Serial No. which is located on the body. Retain this information for future reference.

Model No. **VN-C3U**

Serial No.

This instruction book is made from 100% recycled paper.

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