



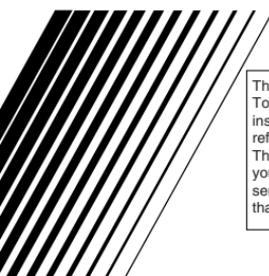
**JVC**<sup>®</sup>



**V.NETWORKS**

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# **VN-C2WU**



## **INSTRUCTIONS**

This instruction manual is printed on recycled paper.

Thank you for purchasing the JVC VN-C2WU. To gain maximum benefit from this product, read this instruction manual carefully before use and retain it for future reference.

The serial number is very important for maintaining quality of your product. At the time of purchase, check to see that the serial number is correctly printed on the top of the unit and that the serial numbers on the unit and warranty match.

**For Customer Use:**

Enter below the Model No. and Serial No. which are located on the rear of the cabinet. Retain this information for future reference.

Model No. \_\_\_\_\_

Serial No. \_\_\_\_\_

**WARNING:**  
**TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS UNIT 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.**

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

Pour cause de changements de conception, les données indiquées dans ce mode d'emploi peuvent être sujettes à des modifications sans préavis.

for USA

	<b>CAUTION</b> 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 equipment has been tested and found to comply with the limits for a class A digital device, pursuant to Part 15 of the FCC Rules.

Changes or modifications not approved by JVC could void the user's authority to operate the equipment.

**INFORMATION (FOR CANADA)  
RENSEIGNEMENT (POUR CANADA)**

This Class A digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

Cet appareil numérique de la classe A respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.

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## Package Contents

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

- VN-C2WU main unit
- Ferrite core
- Instruction manual (this document)



## Operating Environment

The environment described below is necessary for operation of the VN-C2WU.

### **A personal computer running the following WWW browser software:**

WWW browser software that is compatible with JavaScript or Frame. Netscape 4.0 or higher, or Internet Explorer 4.0 or higher, is required.

CPU performance and memory capacity should be the recommended values for the WWW browser software used. To ensure the smooth display of animated images on a large screen, these values should be even larger than those recommended.

Also, images from the camera will not be correctly displayed in the 256-color mode, etc.

- In the case of Internet Explorer, an environment in which JAVA can be executed correctly is necessary.

### **LAN environment**

The VN-C2WU operates as a web browser using HTTP protocol.

Access linking by host name is possible with an environment able to use DNS (Domain Name System).

#### **Caution**

The standard used for connection to the VN-C2WU is 10BASE-T.

The VN-C2WU and a personal computer can be connected directly at 1: 1 by using cross cables. (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 to +40 °C.
- Locations with vibration.
- Locations with excessive dust, oil or gas.

○ **When this product is used with AGC on (camera setting: Auto), sensitivity will be increased automatically in dark places and the screen may flicker in some cases. This is not a malfunction.**

○ **When the color balance of this product is used with the camera setting at Auto, 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.**



# VN-C2WU Installation and Setup

## Before starting installation and setup

It is necessary to set an IP address for each VN-C2WU unit. Use the following procedure for the setup of individual units. (If the power is not turned on, the installation operation can be performed at one time.)

**1. Install the VN-C2WU.**

※ Only in cases of installation in a location where the power cannot easily be turned on, complete steps 2 to 4 before installing.

**2. Connect the VN-C2WU to a network.**

(With the VN-C2WU power turned on.)

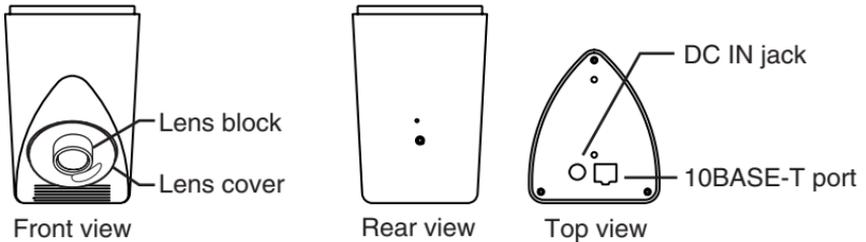
**3. Set the VN-C2WU IP address.**

※ When setting the VN-C2WU IP address, be sure to contact the network manager for assignment or approval.

**4. VN-C2WU access test.**

※ This test is performed after any change to confirm the IP address.

## Names of VN-C2WU parts



# Installation and Setup

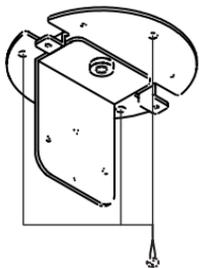
## 1. Installation

Use the optional bracket for installation.

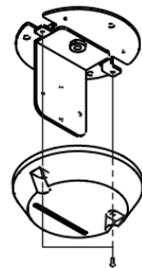
Make the power and network connections after completion of the installation.

### Caution

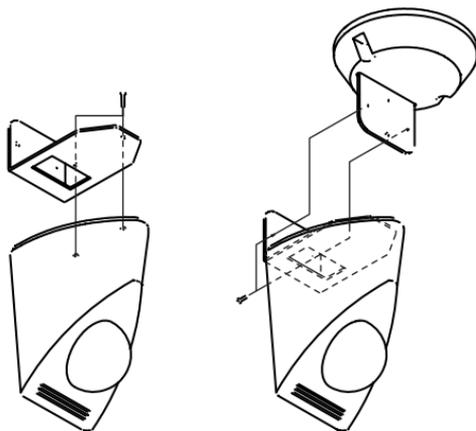
To prevent the unit from falling, mount only on areas with sufficient strength. VN-C2WU can be installed as shown in the diagram below, or inverted. Do not install the unit sideways.



(1) Attach the fixer to the ceiling, etc.



(2) Mount the cover on the fixer.



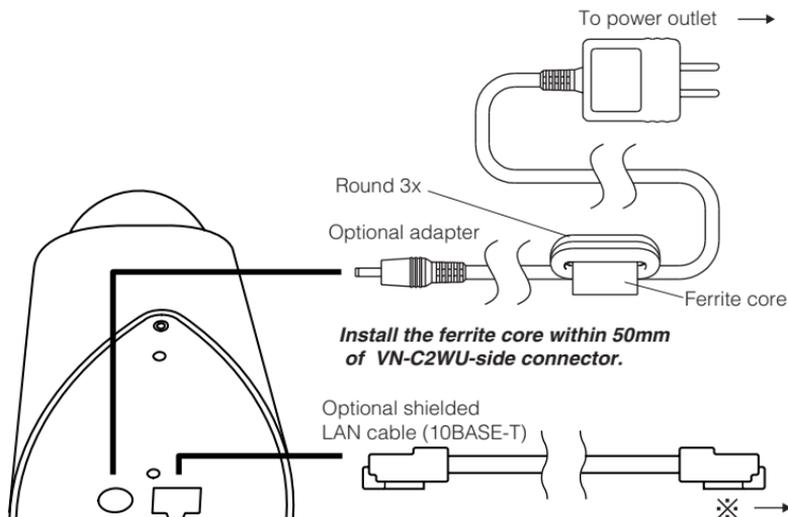
(3) Mount the VN-C2WU on the fixer.

## 2. Connecting to a network (Ethernet, Fast Ethernet through Auto negotiation HUB).

Turn on the power of only one VN-C2WU unit.

When network connection is completed and the power is turned on, the VN-C2WU unit will be connected to the network at the following IP address.

Factory set (Default) IP address : 192.168. 0. 2



※ When connecting to a HUB, use a straight cable.  
When connecting directly to a PC, use a cross cable.

### Caution

All VN-C2WU units are set to the same IP address at the factory; therefore, if the power of multiple VN-C2WU units is turned on at the same time, correct access will not be possible. Always turn the power on for only one unit at a time. If duplication occurred, perform the proper processing, 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 will not be possible.

### 3. Setting the VN-C2WU 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.

The image shows two screenshots from a Windows XP environment. The top screenshot is the 'Network' control panel window. It has three tabs: 'Configuration', 'Identification', and 'Access Control'. Under 'Configuration', it lists installed network components: 'Client for Microsoft Networks', 'TCP/IP', and 'Client for Microsoft Networks'. The 'TCP/IP' component is selected and highlighted. A callout box points to it with the text: '(1) Select the TCP/IP item, then click on Properties.' Below the list are buttons for 'Add...', 'Remove', and 'Properties'. The 'Properties' button is highlighted. Below these are 'Primary Network Logon' (set to 'Client for Microsoft Networks') and 'File and Print Sharing...' buttons. A 'Description' box states: 'TCP/IP is the protocol you use to connect to the Internet and wide-area networks.' At the bottom are 'OK' and 'Cancel' buttons. A callout box points to the 'OK' button with the text: '(3) Click on OK and then reboot the PC.'

The bottom screenshot is the 'TCP/IP Properties' dialog box. It has tabs for 'DNS Configuration', 'Gateway', 'Advanced', and 'NetBIOS'. The 'IP Address' tab is active. It contains the text: 'An IP address can be automatically assigned to this computer. If your network does not automatically assign IP addresses, ask your network administrator for an address, and then type it in the space below.' There are two radio buttons: 'Obtain an IP address automatically' (unselected) and 'Specify an IP address:' (selected). Below the radio buttons are two input fields: 'IP Address:' with the value '192.168.0.3' and 'Subnet Mask:' with the value '255.255.255.0'. Both input fields are highlighted with callout boxes. A callout box points to the 'Specify an IP address:' radio button with the text: '(2) Before making a change, always make a note of the original IP address. After making the note, change the IP address to 192.168.0.3.' At the bottom are 'OK' and 'Cancel' buttons. A callout box points to the 'OK' button with the text: '(3) Click on OK and then reboot the PC.'

## About the web pages mentioned in this instruction manual

From the following page, all the screens expressed as VN-C2WU pgae are contained in VN-C2WU and displayed by the web page browse and display function of the WWW browser software. Therefore depending on WWW browser software and its settings, the formats and fonts may be different from the screens of VN-C2WU page, in this manual.

In this manual, all the screens of VN-C2WU are displayed by the web page browse and display function of Netscape.

### 3-2 Changing internal settings

Start the WWW browser software.

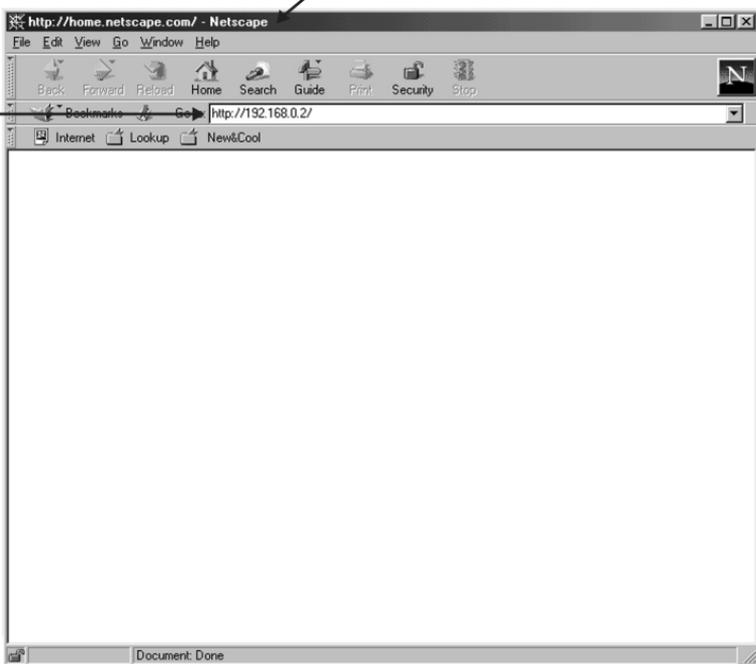
Specify the factory-set VN-C2WU web page address in the browse location in the WWW browser software. (When the factory-set IP address is specified, the WWW browser software will display the VN-C2WU top page.)

`http://192.168.0.2/`

#### Caution

In some cases, direct specification is not possible when a proxy server has been set for Internet access. In such cases, contact the network administrator and change the setting.

WWW browser software (using Netscape as an example)



Display of the VN-C2WU top page.



VN-C2WU top page.

Click on Settings.

The Settings page is displayed.



VN-C2WU Settings page.

Scroll so that all of "Other Settings" can be seen.

Setup is performed by changing the "Other Settings" contents.

Other Settings	Settings
IP Address	<input type="text" value="192.168.0.2"/>
Subnet Mask	<input type="text" value="255.255.255.0"/>
Default Gateway	<input type="text" value="0.0.0.0"/>
Host Name	<input type="text"/> within 8 characters
MAC Address	00BBBB.0001FE
Program Version	Version 1.1
Power Frequency	<input checked="" type="radio"/> 50 Hz <input type="radio"/> 60 Hz
Password (within 8 characters)	User Level <input type="text"/> <input type="text"/> (confirm)
	Operator Level <input type="text"/> <input type="text"/> (confirm)
	Administrator Level <input type="text"/> <input type="text"/> (confirm)
Pan/Tilt Position	<input checked="" type="checkbox"/> Auto Refresh

Click "Apply" button to enable the above settings.

VN-C2WJ Settings page "Other settings"

#### Other Settings

##### [IP address]

Change to an IP address assigned or approved by the network administrator.

##### [Subnet mask]

Like the IP address, the subnet mask is assigned or approved by the network administrator.

##### [Default Gateway]

Set the default Gateway IP address. 0.0.0.0 means the gateway is not used.

##### [Host name]

- Specify using up to 8 letters. Only in the environment to use DNS (Domain Name System) and make the access link by host name. Except for this environment, do not specify anything.

##### [MAC address]

This is the unique physical address of the product.

※ Cannot be changed.

## Other Settings

### [Program version]

The version of the VN-C2WU main unit firmware.

※ Cannot be changed.

### [Power Frequency]

This setting reduces the amount of flicker under fluorescent lighting. Set to 50Hz or 60Hz in accordance with the power frequency at the installation location.

### [Password]

Specify using up to 8 letters. Enter (re-enter) the same password two times in each level for confirmation purposes.

### [Auto Refresh]

Specify Pan/Tilt position display in the (Control page) and (Configuration page) is automatically refreshed or not.

### Password function

An access protection using a password is provided to regulate connecting PCs (users) connected to the VN-C2WU. This access protection function has three levels to match the access levels. The pages that can be accessed at each of these levels are as shown below.

(Refer to page 22 for the VN-C2WU web page configuration.)

Password level	Accessible page
User level	Still Image page and Live Image page.
Operator level	The above pages and (Pan/Tilt) control page.
Administrator level	The above pages and Settings page.

### Caution

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

Other Settings	Settings	
IP Address	192 . 168 . 0 . 2	
Subnet Mask	255 . 255 . 255 . 0	
Default Gateway	0 . 0 . 0 . 0	
Host Name	<input type="text"/> within 8 characters	
MAC Address	00 BB BB 00 01 FE	
Program Version	Version 1.1	
Power Frequency	<input checked="" type="radio"/> 50 Hz <input type="radio"/> 60 Hz	
Password (within 8 characters)	User Level	<input type="text"/> <input type="text"/> (confirm)
	Operator Level	<input type="text"/> <input type="text"/> (confirm)
	Administrator Level	<input type="text"/> <input type="text"/> (confirm)
Pan/Tilt Position	<input checked="" type="checkbox"/> Auto Refresh	

Click "Apply" button to enable the above settings.

Press Apply button to enable the setting.



Check the new IP address again.  
If there is no mistake in the entry, click on OK.

### Caution

The confirmation screen shown above will appear when the IP address, subnet mask, host name and power frequency settings are changed. When OK is clicked in this confirmation screen, the VN-C2WU main unit internal preset operation will be performed and the IP address, etc., will be changed. The Factory set (Default) IP address of 192.168.0.2 will become invalid, and the connection to the VN-C2WU will be no longer possible. When the WWW browser software is not operated for a certain time, a message indicating that connection is not possible will appear as a result of IP address change.

### 3-3 Restore to the original PC IP address

Using the same procedure as described in item 3-1, select Settings from the Start button, then select Control Panel and Network, in that order. Next, restore to the original IP address and reboot the PC in accordance with the messages.

## 4. VN-C2WU connection test

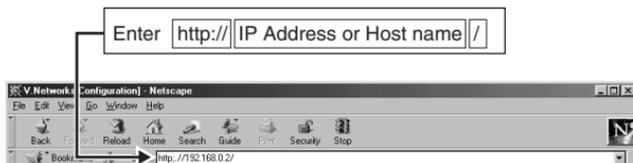
This test confirms whether or not each VN-C2WU web page can be displayed with the WWW browser software using the set IP address or DNS host name.

(Refer to page 20 for the VN-C2WU web page configuration.)

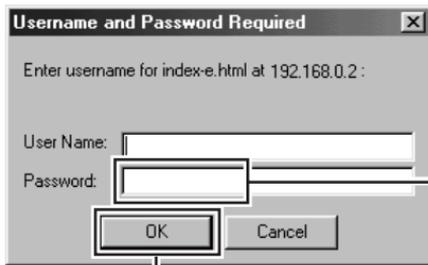
### Caution

In some cases, direct specification is not possible when a proxy server has been set for Internet access. In such cases, contact the network administrator and change the settings.

Also contact the network administrator and make necessary settings regarding DNS address for using DNS.



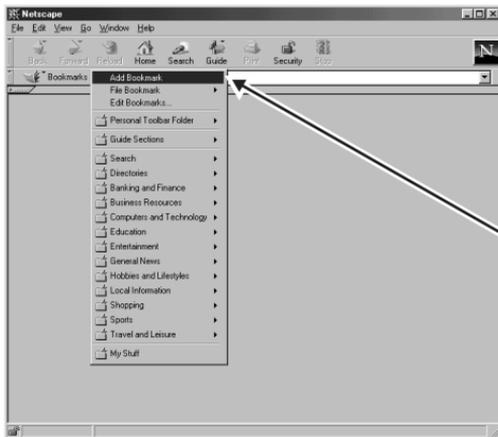
Enter the User Name and Password.



Enter a password.  
It is not necessary to enter a user name.

Click on OK.

In order to assure quick display of the VN-C2WU web page from the WWW browser being used, register a browse location (URL : Uniform Resource Locator) is recommended.  
Use Bookmarks with Netscape or Favovites with Internet Explorer for this registration.



Addition to Bookmarks (using Netscape).



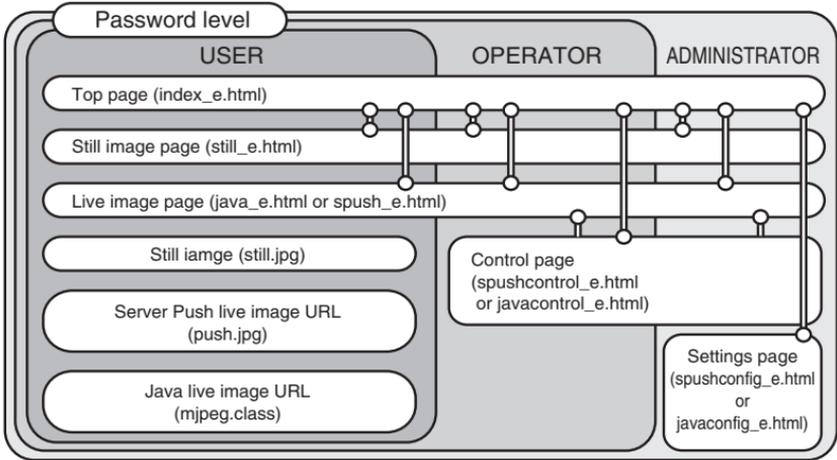
# VN-C2WU/Web page

## Explanation of display items and operations

The following is a diagram of the configuration of the VN-C2WU internal URL (web pages).

### Caution

In order to access all the VN-C2WU web pages, the Administrator level password is required.



**Top page:** [http://\\*\\*\\*\\*\\*index\\_e.html](http://*****index_e.html). (\*\*\*\*\* is the URL of the VN-C2WU.)

The purpose of this page is to link to each of the VN-C2WU web pages.

The screenshot shows the web page interface with the following callouts:

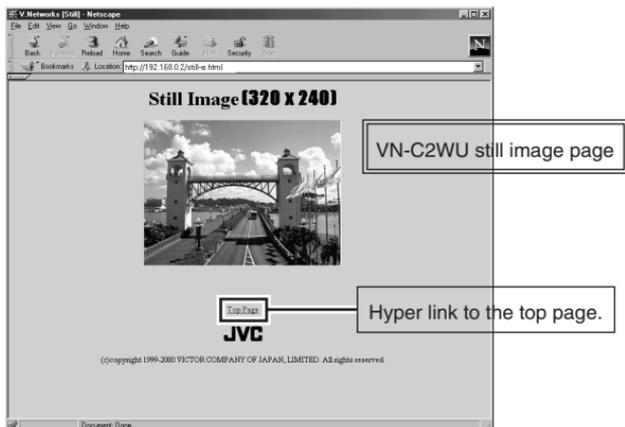
- Top page:** Points to the main content area of the page.
- Still image:** Points to the central image showing a bridge, with the note "When browsing is started."
- Buttons to link each page:** Points to the "Menu" section containing buttons for Still Image, Live Image, Control, and Settings.

The page content includes:

- Header:** Welcome to the Web V.Networks
- Menu:** Still Image, Live Image, Control, Settings
- Contents:** Grab a snapshot, View Live Images, Control the Pan/Tilt and Position Memory, Set the resolution, compression rate, frame rate and quality.
- Footer:** JVC, ©Copyright 1999-2000 VICTOR COMPANY OF JAPAN, LIMITED. All rights reserved.

## Still image page: [http://\\*\\*\\*\\*\\*still\\_e.html](http://*****still_e.html). (\*\*\*\*\* is the URL of the VN-C2WU)

This page is to display a still image when browsing is started. To update the image, use the Reload or Refresh function of the WWW browser software. To save the image being displayed, use the Save as... function of the WWW browser software.



## Live image page: The URL will be changed automatically by the WWW browser software.

Netscape [http://\\*\\*\\*\\*\\*spush\\_e.html](http://*****spush_e.html)

Internet Explorer [http://\\*\\*\\*\\*\\*jave\\_e.html](http://*****jave_e.html).

(\*\*\*\*\* is the URL indicated by the VN-C2WU)

This page is to display live images. The camera images are updated automatically and displayed as live images.

### Caution

The Save as... function of the WWW browser software cannot be used with this page so do not attempt to save. The Save as... function cannot be used for the entire web page so do not attempt to save.

### Caution

Server push images are cached in the browser; therefore, operation of the browser may become sluggish after continuous use for an extended time period. In such cases, set caching by the browser to off.

## Server Push Mode (320 x 240)



**Control page:** The URL will be changed automatically by the WWW browser software.

Netscape [http://\\*\\*\\*\\*/spushcontrol\\_e.html](http://****/spushcontrol_e.html)

Internet Explorer [http://\\*\\*\\*\\*/javacontrol\\_e.html](http://****/javacontrol_e.html)  
(\*\*\*\* is the URL of the UN-C2WU)

This page is to control Pan/Tilt operations and to operate the position memory.

The images are updated automatically and displayed as live images.

### Caution

Perform the Pan/Tilt operations after all images have been loaded into the web browser.

Current position - Pan:+000 / Tilt:+000

Current Setting	
No. 1	+000(deg)/ +000(deg) <input type="button" value="Apply"/>
No. 2	+000(deg)/ +000(deg) <input type="button" value="Apply"/>
No. 3	+000(deg)/ +000(deg) <input type="button" value="Apply"/>
No. 4	+000(deg)/ +000(deg) <input type="button" value="Apply"/>
No. 5	+000(deg)/ +000(deg) <input type="button" value="Apply"/>
No. 6	+000(deg)/ +000(deg) <input type="button" value="Apply"/>
No. 7	+000(deg)/ +000(deg) <input type="button" value="Apply"/>
No. 8	+000(deg)/ +000(deg) <input type="button" value="Apply"/>
No. 9	+000(deg)/ +000(deg) <input type="button" value="Apply"/>
No. 10	+000(deg)/ +000(deg) <input type="button" value="Apply"/>

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VN-C2WU control page

Hyper link to other pages.

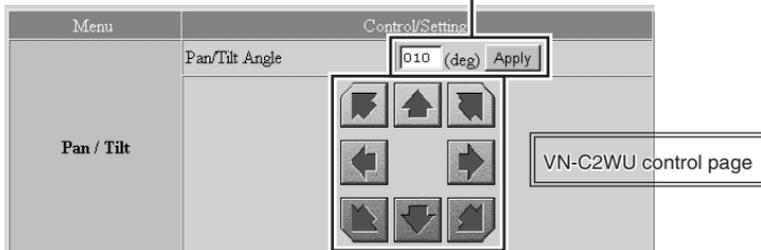
Live image

VN-C2WU data display area  
The current Pan/Tilt position is displayed.  
Warning messages for operations are also displayed.

Operation menu  
The buttons related to camera Pan/Tilt operations are located here. Refer to the next page for

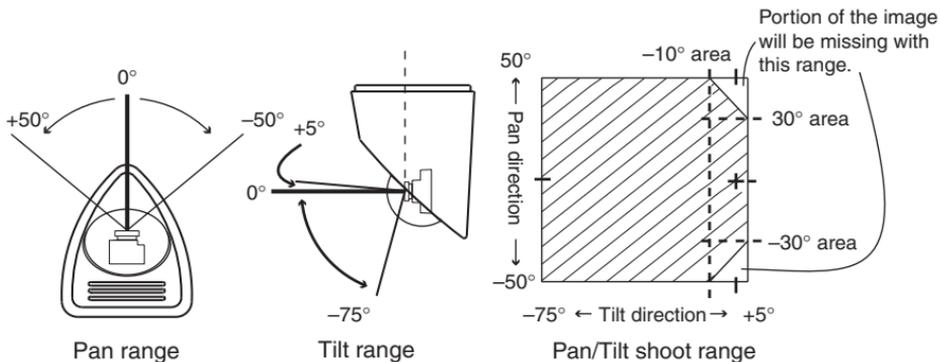
# Pan/Tilt control

The current Pan/Tilt angle step is displayed here. Angles (integer value) can be changed by entering value and clicking on the Apply button.



The Pan/Tilt can be controlled with the 8 Pan/Tilt operation buttons. The amount of movement for each operation of Pan/Tilt is the above Pan/Tilt Angle.

The Pan/Tilt position display is as shown in the illustration.



## Position memory movement

The VN-C2WU is equipped with 10 position memories.

VN-C2WU control page (position memory control)



## Position memory setting

The contents of the currently set position memory are displayed.

VN-C2WU control page (position memory setting)

The image shows a control panel with a grey header labeled "Position Setting". Below the header is a table with 10 rows. The first column is labeled "No." and contains numbers 1 through 10. The second column is labeled "Current Setting" and contains the text "+000(deg)/ +000(deg)". To the right of the table is a vertical column of ten "Apply" buttons, one for each row.

Position Setting		Current Setting	
No. 1	+000(deg)/ +000(deg)	Apply	
No. 2	+000(deg)/ +000(deg)	Apply	
No. 3	+000(deg)/ +000(deg)	Apply	
No. 4	+000(deg)/ +000(deg)	Apply	
No. 5	+000(deg)/ +000(deg)	Apply	
No. 6	+000(deg)/ +000(deg)	Apply	
No. 7	+000(deg)/ +000(deg)	Apply	
No. 8	+000(deg)/ +000(deg)	Apply	
No. 9	+000(deg)/ +000(deg)	Apply	
No. 10	+000(deg)/ +000(deg)	Apply	

The current Pan/Tilt position can be set to any of the 10 position memories by clicking on "Apply".

**Settings Page:** The URL will be changed automatically by the WWW browser software.

Netscape [http://\\*\\*\\*\\*/spushconfig\\_e.html](http://****/spushconfig_e.html)

Internet Explorer [http://\\*\\*\\*\\*/javaconfig\\_e.html](http://****/javaconfig_e.html).

(\*\*\*\* is the URL of the VN-C2WU)

This page is to make the camera image related settings and connection (setup) related settings. (The images are updated automatically and displayed as live images.)

**VN-C2WU settings page**

**Hyper link to other pages**

**Live image.**

**VN-C2WU data display area**  
The current Pan/Tilt position is always displayed. Warning messages for the various operations are also displayed.

**Settings menu**  
The buttons used for the image and connection (setup) related settings are located here. Refer to the next page for details.

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1029K\_read (at 37.8K/sec)

## Camera Auto/Manual Settings



VN-C2WU settings page  
(Auto/manual settings)

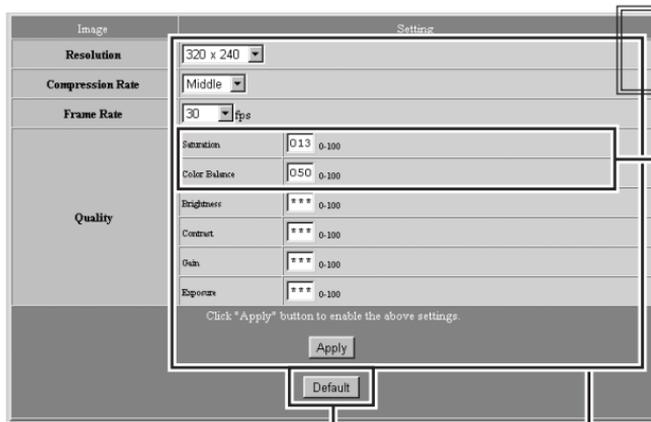
Manual : “Quality” in “Image Quality Setting” such as Saturation and Color Balance can be manually set.

Auto : “Quality” in “Image Quality Setting” can be automatically set.

Select Auto or Manual depending on operational environment.

Click Apply after selecting Auto or Manual.

## Image Quality Setting



VN-C2WU settings page  
(Image Quality setting)

Also effective when Auto is set.

Clicking Default returns all of the settings to the factory set values (Default values).

After making each setting, click Apply to change the VN-C2WU internal settings.

## Image Quality menu

### [Resolution]

Three different image sizes are available: 640 x 480, 320 x 240 and 160 x 120.

### [Compression Rate]

The compression ratio has an inversely proportional relationship to image quality but increasing the compression ratio increases the number of frames that can be displayed per second.

Compression ratio	Low	Medium	High
Image quality	High	Medium	Low
No. of frames	Low	Medium	High

### [Frame Rate]

Frame rate sets the upper limit for the number of image frames sent from the VN-C2WU per second. (fps is the abbreviation for frames per second)

#### Caution

If the frame rate is not set to 1fps or less in the band below 10Mbps, the pan/tilt operations may not be possible from the control page in some cases. (ISDN 64k, 128k, analog 56k, etc., are pertinent.)

#### Caution

The number of frames actually sent and displayed per second depends on the performance of the personal computer and WWW browser software, and on the LAN environment, etc. When communication interference from processing being performed by other users is anticipated (especially in environments where the load on the network is relatively heavy), it is advisable to set a low value for the frame rate.

### Quality

Image Sensor can be used when Camera Auto/Manual Setting is set to Manual. (Excluding the "Saturation" and the "Color Balance".)

Images can be adjusted by changing the detail items.

Item	Effect
Saturation	Adjustment of the color saturation. Also effective when Auto is set. (The larger the setting value, the greater the color saturation.)
Color Balance	Adjustment of the tone. Also effective when Auto is set. (50 is the median value. Decreasing the setting value emphasizes red and increasing the setting value emphasizes blue.)
Brightness	Adjustment of the image brightness. (The larger the setting value, the greater the brightness.)
Contrast	Adjustment of the contrast. (The larger the setting value, the stronger the contrast.)
Gain	Adjustment of the gain of the internal amp. (Increase the setting value when light is insufficient.)
Exposure	Adjustment of the exposure time. (The smaller the setting value, the lighter the image.)

### [Other Settings]

Other Settings	Settings
IP Address	192 . 168 . 0 . 2
Subnet Mask	255 . 255 . 255 . 0
Default Gateway	0 . 0 . 0 . 0
Host Name	<input type="text"/> within 8 characters
MAC Address	00 BB BB 00 01 FE
Program Version	Version 1.1
Power Frequency	<input checked="" type="radio"/> 50 Hz <input type="radio"/> 60 Hz
Password (within 8 characters)	User Level <input type="text"/> (confirm)
	Operator Level <input type="text"/> (confirm)
	Administrator Level <input type="text"/> (confirm)
Pan/Tilt Position	<input checked="" type="checkbox"/> Auto Refresh
Click "Apply" button to enable the above settings.	
<input type="button" value="Apply"/>	

VN-C2WU settings page  
(Other Settings)

Most of the items are set during installation and setup. Refer to page 10 for details.



## How to link the VN-C2WU images

The still or live mages of VN-C2WU can be pasted and displayed in a separate web page you have created.

### Displaying still image:

A still image can be displayed by creating a web page with the contents described below.

```
<IMG SRC="http://[*****]/still.jpg">
```

[\*\*\*\*\*] shows the URL indicated by the VN-C2WU.

### Displaying live images:

Two methods can be used for live images: the Serverpush method and the Java method.

It is necessary to use one of these methods in accordance with the WWW browser software compatability.

#### Displaying with Serverpush

Live images can be displayed with Serverpush-compatible WWW browser software (Netscape) by creating a web page with the contents described below.

```
<IMG SRC="http://[*****]/push.jpg">
```

[\*\*\*\*\*] indicates the VN-C2WU IP address.

## Displaying with Java

Live images can be displayed with Java-compatible WWW browser software (Internet Explorer, etc.) by creating a web page with the contents described below.

```
<APPLET CODE="mjpeg.class"WIDTH=640 HEIGHT=480>  
CodeBase=http://[*****]/"></APPLET>
```

[\*\*\*\*\*] indicates the VU-C2WU IP address.

### Caution

The resolution, compression rate, etc., of both the still and live images browsed and displayed (in a separate web page are) in accordance with the previously set setting values.

Also, correct display may not be possible if Java execution is disabled with the WWW browser software.

### Caution

When a password has been set, animated images cannot be displayed with JAVA without prior confirmation.



# Troubleshooting

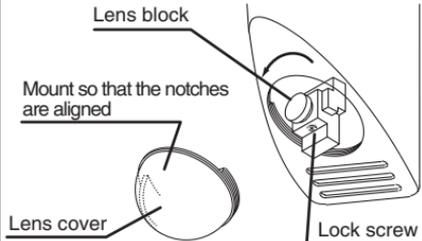
Out of focus

Use the following procedure to adjust the focus.

1. Set both the pan and tilt positions to zero (0) degrees.
2. Remove the lens cover.
3. Loosen the screws fastening the lens block.

**Caution: For safety, turn off the power before loosening the lens block screws.**

4. Display an VN-C2WU image with the WWW browser software. (Animated images can be displayed with the WWW browser software.)
5. Slowly rotate the lens block until the focus is correct.
6. Tighten the lens block screws.
7. Firmly attach the lens cover, making sure the cutouts in the lens cover and case are aligned.



<p>The new VN-C2WU IP address has been forgotten.</p>	<p>Unknown IP addresses are handled as recoveries or repairs. Contact your local dealer.</p>
<p>The password set with the password protection function has been forgotten.</p>	<p>Cancellation of the password protection function is handled as a repair, so contact your local dealer. For safety, please show personal identification at that time.</p>
<p>The colors are unsatisfactory.</p>	<ul style="list-style-type: none"> <li>• Check the color adjustment of the displaymonitor and video card. Colors will differ slightly depending on the video card and display monitor used with the personal computer. Improvement is sometimes possible by adjusting the color setting of the display monitor. Depending on the video card used, the color can sometimes be adjusted with Screen Properties (click the right mouse button from the Desktop).</li> <li>• Switching to True Color (24-bit) display Natural color reproduction is difficult at a setting of High Color (16-bit) or less. The use of True Color is recommended.</li> <li>• Adjusting the color balance Color balance can be changed using VN-C2WU Setting Page → Image Quality Menu → Color Balance.</li> </ul> <p style="text-align: center;">(Cont'd on the next page)</p>

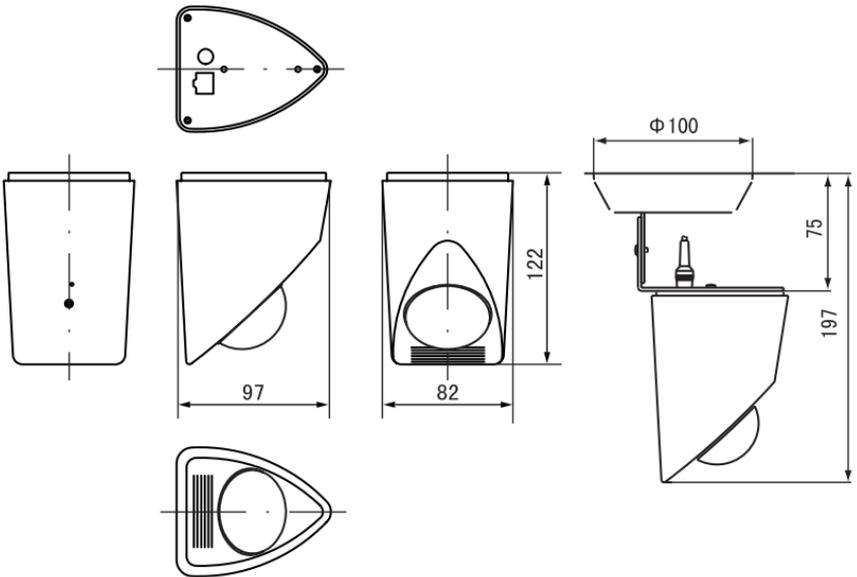
<p>The colors are unsatisfactory.</p>	<ul style="list-style-type: none"> <li>• Try changing Camera Auto/Manual Setting on the VN-C2WU Setting Page from Auto to Manual and then back to Auto. When using a different light sources for recording (For example, when moving back and forth between outdoors under sunlight and indoors under fluorescent lighting.) In some cases, time is required for the auto tracking white balance to start operating. In this case, the white balance can be started rapidly by temporarily changing the setting from Auto to Manual and then checking.</li> </ul>
<p>Image size and position change spontaneously</p>	<p>When a single VN-C2WU unit is accessed by multiple operators and managers, the last setting made is the one that will be valid.</p>



## Specifications

- LAN standard : IEEE 802.3 standard
- Communication protocol : TCP/IP, HTTP
- Image sensor : 1/3 inch, 300,000 pixels CMOS image sensor
- Minimum focusing distance : 1.0 m
- Pan/Tilt angles : Pan : 100°  
Tilt : 80°
- Output image format : 640 X 480, 320 X 240, 160 X 120 pixels
- Power voltage : DC 5 V
- Power consumption : 1.4 A (max)
- Operating temperature : 0 to 40°C
- Mass (weight) : Approx. 260 g

External dimensions (unit: mm)



VN-C2WU

V.NETWORKS

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