

DOME TYPE NETWORK CAMERA



INSTRUCTIONS (B)



For Customer Use:

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

Model No. VN-C655

Serial No.

LW40710-001B

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Safety Precautions

FOR USA AND CANADA



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.



The lightning flash wish 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.

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. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. 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'ELECTRO-CUTION, 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 á la norme NMB-003 du Canada.

WARNING (FOR EUROPE):

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

- This installation should be made by a qualified service person and should conform to all local codes.
- This installation shall be in accordance with the National Electrical Code, ANSI/NFPA 70.
- This product shall be powered by a Listed Class 2 power supply only.
- Any Mention in this manual of Alarm inputs/ outputs have not been evaluated by UL to be used for Burglar Alarm Functionality.

These are general IMPORTANT SAFEGUARDS and certain items may not apply to all appliances.

IMPORTANT SAFEGUARDS

- 1. Read all of these instructions.
- 2 Save these instructions for later use.
- 3. All warnings on the product and in the operating instructions should be adhered to.
- 4. Unplug this appliance system from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.
- 5. Do not use attachments not recommended by the appliance manufacturer as they may cause hazards.
- 6. Do not use this appliance near water for example, near a bathtub, washbowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool, etc.
- 7. Do not place this appliance on an unstable cart, stand, or table. The appliance may fall, causing serious injury to a child or adult, and serious damage to the appliance. Use only with a cart or stand recommended by the manufacturer, or sold with the appliance. Wall or shelf mounting should follow the manufacturer's instructions, and should use a mounting kit approved by the manufacturer. An appliance and cart combination should be moved with care.

Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.



PORTABLE CART WARNING

S3125A

8. Slots and openings in the cabinet and the back or bottom are pro-vided for ventilation, and to insure reliable operation of the appliance and to protect it from overheating, these openings must not be blocked or covered. The openings should never be blocked by placing the appliance on a bed, sofa, rug, or other similar surface.

This appliance should never be placed near or over a radiator or heat register. This appliance should not be placed in a built-in installation such as a bookcase unless proper ventilation is provided.

- 9. This appliance should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supplied to your home, consult your dealer or local power company. For appliance designed to operate from battery power, refer to the operating instructions.
- 10. This appliance system is equipped with a 3-wire grounding type plug (a plug having a third (grounding) pin). This plug will only fit into a grounding-type power outlet. This is a safety feature. If you are unable to insert the plug into the outlet, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the grounding plug.
- 11. For added protection for this product during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it form the wall outlet and disconnect the antenna or cable system. This will prevent damage to the product due to lightning and power-line surges.
- 12. Do not allow anything to rest on the power cord. Do not locate this appliance where the cord will be abused by persons walking on it.
- 13. Follow all warnings and instructions marked on the appliance.
- 14. Do not overload wall outlets and extension cords as this can result in fire or electric shock.
- 15. Never push objects of any kind into this appliance through cabinet slots as they may touch dangerous voltage points or short out parts that could result in a fire or electric shock. Never spill liquid of any kind on the appliance.
- 16. Do not attempt to service this appliance yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to gualified service personnel.
- 17. Unplug this appliance from the wall outlet and refer servicing to qualified service personnel under the followina conditions:
 - a. When the power cord or plug is damaged or frayed.
 - b. If liquid has been spilled into the appliance.
 - c. If the appliance has been exposed to rain or water.
 - d. If the appliance does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as improper adjustment of other controls may result in damage and will often require extensive work by a gualified technician to restore the appliance to normal operation.
 - e. If the appliance has been dropped or the cabinet has been damaged.
 - f. When the appliance exhibits a distinct change in performance this indicates a need for service.
- 18. When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer that have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.
- 19. Upon completion of any service or repairs to this appliance, ask the service technician to perform routine safety checks to determine that the appliance is in safe operating condition.

Introduction

Thank you for purchasing this product.

(These instructions are for VN-C655U.)

Before beginning to operate this unit, please read the instruction manual carefully in order to make sure that the best possible performance is obtained.

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Characteristics

High-speed Rotating Table

High-speed rotating table with a horizontal panning speed of 300°/sec and vertical tilting speed of 180°/sec makes it possible to recall a preset position quickly.

Optical + Electronic zooming

The 25X optical zoom lens and 10X electronic zoom circuitry allows the camera to be used even in surveillance situations in which the object is very small.

Day/Night Surveillance

When the light is low, the camera is able to switch automatically to the high-sensitive (Black & White) mode by turning ON/OFF the IR filter.

It also supports infrared illuminators (wavelength of 850 nm to 880 nm).

Employment of a highly-sensitive CCD and bright zoom lens

Employment of a highly-sensitive CCD and bright zoom lens with a maximum aperture ratio of F1.6 (at the Wide end) produces a highly sensitive color mode of 2.0 lx (AGC: 20 dB, 50%).

Operating Precautions

- To save energy, turn off the power supply of the system when not in use.
- This camera is intended for indoor use. It cannot be used outdoors.
- This camera has been designed for suspension from ceilings. Fixing it to the ground surface or at an angle may cause malfunction or shorten the product's service life.
- Do not install or use the camera in the following locations.
 - Places exposed to rain or water
 - Places containing vapor or oil soot, such as kitchens
 - Places exceeding the operating ambient temperature range (0° to 40°)
 - Places where corrosive gases are generated
 - Places nearby radiation or X-rays as well as sources of strong radio waves or magnetism
 - Places subject to vibration
 - Places with excessive dust
- Insufficient ventilation may cause the camera to malfunction. Be careful not to block ventilation around the camera.

This camera radiates heat from its surfaces

Frame Rate

Supports a maximum frame rate of 30 fps when resolution is 640 x 480 in the JPEG compression format.

Supports Multicast

Support for multicast enables sending of an image data to multiple PCs on the network at one time without lowering the frame rate.

DSP with a wide dynamic range

Even objects that have a large difference in brightness can be monitored clearly.

Private Mask Feature

This feature enables setting to mask a certain portion of the shooting area if it is to be hidden.

Motion Detection Feature

Enables output of alarm upon detecting motion of images within a specified area.

Built-in Web Server Enables browsing using the Internet Explorer.

(top panel facing ceiling and side panel). Do not install at a location that may trap heat, such as near the walls.

- Do not install at a location that may expose the camera directly to cool air, such as nearby the air outlet of air conditioners. This may cause moisture to condense within the dome cover.
- Dew condensation may occur when there is a drastic change in the ambient temperature of the camera, hence causing a malfunction. When the camera is installed at such locations, turn on the power after allowing it to dry for a few hours.
- Do not point the camera lens at a strong light source such as the sun. Doing so may cause the camera to malfunction.
- This camera contains a built-in AGC circuit. As a result, gain increases at dark places and screen may appear grainy. This is not a malfunction.
- When an equipment that generates a strong magnetic field, such as transceivers, is used near this camera with the AGC turned on, beat noises may appear in the image. When using a transceiver, therefore, place it at least 3 m away from this camera.

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- If this camera or cable connected this unit is used near a location where strong electrical or magnetic waves are generated (eg. radios, TVs, transformers, monitors, etc.), noise interference may occur in the image or its color may be affected.
- When the AGC circuit is on, brightness of the screen may not change upon switching the Auto Iris mode (Normal, + or -) using the V.Networks Controller. This is due to the automatic gain boost feature that is activated. In this case, set AGC to OFF or use the manual iris mode.
- Under certain brightness conditions, switching the Auto Iris mode (Normal, + or -) using the V.Networks Controller may not bring about any change in brightness. In this case, set the iris to the manual mode.
- When this camera is used in the White Balance (ATW) mode, the colors captured may differ slightly from the actual colors due to the operational principles of the auto-tracking white balance circuit. This is not a malfunction.
- When shooting a bright object (eg. lamps, etc.), white vertical streaks may appear on the object on the screen. This is a phenomenon (smear phenomenon) normal to CCDs (solid-state image pickup devices) and is not a malfunction.
- When the camera is used to monitor the same position over prolonged hours (such as 24 hours of continuous monitoring), contact resistance of the panning mechanism may increase. This may cause noise interference in the image or unstable operation of the V.Networks Controller. To prevent this from occurring, turn the power of the system off and on again (to initialize camera) once a week and clean the contacts.
- The dome cover is hemispherical in shape, and therefore images tend to be distorted at the edges of the hemisphere. The edges of the hemisphere is masked for this camera. When the camera is tilted and pointed in the horizontal direction, therefore, edges of the hemisphere may enter the angle of view, hence causing the upper end of the screen to appear dark and the image to go out of focus.
- When shooting an object that is near a light source (eg. lightings) or with a large difference in brightness, ghosting may occur on the screen. This phenomenon is due to the characteristics of the dome cover and built-in lens and is not a malfunction.
 - Ensure to use the Converter Unit that has been supplied.

- When playing back images by connecting a coaxial cable to the VIDEO OUT terminal, the image on the screen may appear shaky (rotational motions are not smooth) when using the Manual or Auto Pan operation particularly near the Tele end. This phenomenon is due to the characteristics of the motor and is not a malfunction.
- Certain hubs/switches that are equipped with the SNMP feature may come with a broadcast or multicast control function. Proper viewing of multicast images created by this camera may not be possible if this function is enabled.
- Do not touch the dome cover with your hand. This may dirty the cover and cause the image quality to deteriorate.
- To clean the camera.
 - Do so upon turning off the power.
 - Use a lens cloth (or paper) to remove dirt from the dome cover. The camera may acquire dirt over a short period of time, depending on the environment of use.

When there is excessive dirt, wipe using a lens cloth (or paper) upon wetting it in a neutral detergent diluted with water.

Do not connect cameras other than VN-C655 to the ceiling mount. Doing so may cause the camera to malfunction.

Consumable Parts

The following parts are consumable. Please replace them accordingly after a certain number of hours or count of operations. The service lives given below are only reference values and may vary according to the operating environment and conditions. Note that replacement of consumable parts is chargeable even within the warranty period.

Zoom lens assembly

Zooming operation Focusing operation	
 Slip rings 	: Approx. 5 million operations
 Cooling fan 	: Approx. 30,000 hours

Zooming operation

Focus may deviate slightly upon stopping of a zoom operation near the Tele end manually or using a preset selection.

In addition, the manual zooming operation may not always be smooth.

These phenomena are due to the characteristics of the built-in lens and are not malfunctions.

Operating Precautions (continued)

Auto Focus

Although this camera comes with the one-push auto focus and EASY AF auto focus features, auto focusing may sometimes be impossible depending on the object and camera settings. When this occurs, adjust the focus manually.

Objects for which auto focusing is difficult

- When brightness of the screen is extremely high (bright)
- When brightness of the screen is extremely low (dark)
- When brightness of the screen varies continuously (eg. flashing lights, etc.)
- · When there is poor contrast
- When vertical stripe patterns recur on the screen

Camera settings for which auto focusing is difficult

- When the AGC gain level increases and the screen becomes grainy
- When SENSE UP is activated and the image contains only little motion.

Read Me

Please read through the "Read Me" file in the CD-ROM together with this instruction manual.

Preset Positions

- The is a total of 100 preset positions that can be set, including the home position.
- The TILT position can be set and operated only between 0° to 90° even when the item "FLIP" is set to ON.
- Image sending may be affected when this is done on a network where multicast transmission devices are connected, or on networks for which there is transmission of voluminous broadcast data. When this occurs, ensure to employ a system design that separates the camera from other multicast or broadcast devices by making use of a switching valve or VLAN with a multicast control function.



Install at places that are strong enough to support the camera weight.

Install this camera at places that are strong enough to support its weight upon taking into consideration the vibration force during high-speed rotation as well as its mass (approx. 2.2 kg). For ceiling materials that are weak, such as overlay plywood and plaster boards, reinforce by applying reinforcements (veneer plywood). If reinforcement is inadequate, image on the monitor screen may be blurred due to vibrations. In the worst scenario, it may even fall and cause serious injuries if there is someone underneath.

How to Use This Manual

Characters and symbols used in this manual

Caution Points to pay attention to during operation.

(Note)

Details for reference, such as functions or constraints during use.

Pages or items to refer to.

* JVC shall not be held liable for any loss or damage to the customer or any claim from a third party arising from the use of this software.

Specifications of this software are subject to alteration for improvement without prior notice. All product names that appear in this document are the trademarks or registered trademarks of their respective companies. Marks and symbols such as TM, @ and @ do not appear in this document.

Items Included				
CD-ROM (instruction manual inside)	Ceilling Mount	Read Me First	Warranty Card	JVC Service Information Card
Safety Precautions	Screw (M3x12 mm)	Cable Pla		nverter Unit
Operating En	vironment			
PC Specifications OS	Window	: Windows 2000 Professional (SP1 or later) Windows 2000 Server Windows XP Home Edition		
CPU	: Equivale	Windows XP ProfessionalEquivalent to or higher than Pentium 3, 500 MHz (Pentium4, 3.2 GHz recommended)		
Memory Hard Disk Space Display and Video C	: 128 MB : 20 MB a ard : 1024 x 7	 128 MB and above (1 GB recommended) 20 MB and above 1024 x 768 pixels or higher, true color (24 bit or 32 bit) *VRAM 8MB and above (256 MB and above recommended) 		
LAN Environment		- (,

IOBASE-T/100BASE-TX networks mutually connected by IEEE802.3-compliant hubs

- Note
- General users of Windows XP or restricted users of Windows 2000 are not allowed to add/ delete V.Networks or change snapshot and recording settings.
- The PC specifications above are only reference values for smooth operation of this application, and are not meant to guarantee operation of this application. Even if the PC satisfies the technical requirements, problems may occur depending on its usage.

Caution

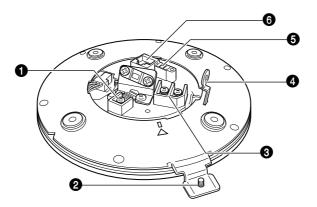
If the OS specifications of the PC to be used are higher, they precede those described above.

Latest Updates

To upgrade the software version or obtain any other latest information, please visit the following website: http://www.jvc-victor.co.jp/english/pro/vnetworks/index-e.html

Name and Function of Parts

Ceiling Mount



1 [MONITOR OUT] Coaxial Cable Terminal

Output Terminal of a composite video signal (1 Vp-p) with an output impedance of 75 Ω , to be connected to video monitor, etc. (INPage 17)

2 Locking Screw

Tighten this screw to fasten the camera clamping bracket.

[POWER INPUT DC18V] Terminal

Connect to a supplied Converter Unit. (BPage 18)

4 Safety Wire Hole

To prevent the possibility of the entire camera falling down, attach the safety wire between this hole and a secure attaching position in the ceiling.

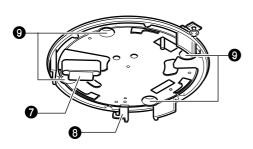
 [ALARM I/O]Alarm Input/Output Terminals Terminals for Alarm input and Alarm output. (INST Page 15)

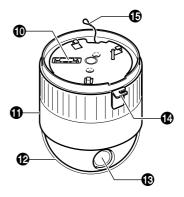
Pin No.	Signal Name		
1	ALARM OUT	ALM OUT 1	
2		ALM OUT 2	
3	ALARM IN	ALM IN 1	
4		ALM IN 2	
5	GND		

[10BASE-T/100BASE-TX] Connector For network connection with a LAN cable. (INP Page 16)

Ceiling Mount

Camera





(Camera Connector side)

0	Camera Terminal (Female) Connect to (, the Male Terminal on the camera.	Ð	Dome Cover The dome cover is fragile. Take care when handling it.
8	Drop Prevention Hook Attach the Drop Prevention Wire & to this hook to prevent the camera from falling.		Lens The lens is not a replaceable item. Camera Clamping Bracket
0	Clamping Holes (x 4) Attach the camera to a ceiling using these holes.	·	In order to clamp the camera onto the Ceiling Mount, insert and tighten the Locking Screw into this bracket.
0	Camera Terminal (Male)	ø	Drop Prevention Wire Attach this wire to the Drop Prevention Hook

Connect to **1**, the Female Camera Terminal on the Ceiling Mount.

Camera Body Cover

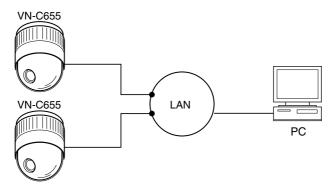
Do not remove the camera body cover while the camera is installed on a ceiling. Doing so will cause the dome cover to fall down.

ket

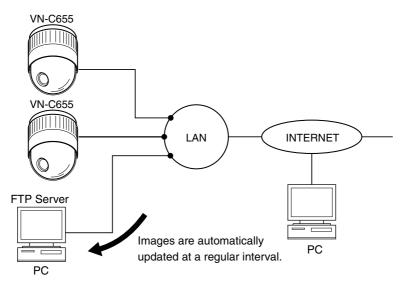
Attach this wire to the Drop Prevention Hook I on the Ceiling Mount.

Connection Examples

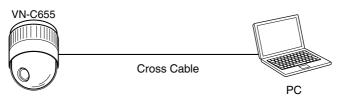
LAN Connection



Network Connection



Peer-to-Peer Connection



Preparation Procedure

Set the camera in the following procedure.

Step 1 Connection/Installation

Firstly, make a hole in the ceiling, followed by connecting the power cable, LAN cable or alarm signal cable to the terminal of the ceiling mount of this camera. Next, attach the camera to the ceiling. Do not forget to attach the safety wire.

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Step 2 Network Settings

Install the software, set the network for this camera as well as using the "VN-C655U Setup Tool", and register the connected camera with the "V.Networks Page 23 Controller".

In a system where more than 1 VN-C655 is used, turn on the power for a VN-C655 first, followed by setting the camera until "2-3 Setting IP Address for this Camera Using the 'VN-C655U Setup Tool' " is completed. Upon doing so, turn on a second camera and perform setting in the same way. Perform the same procedure for subsequent cameras.
 (Image 18)

Step 3 Setting Using the V.Networks Controller

Perform settings for Auto Pan, Auto Patrol, Auto Trace, Image Quality and Alarm Image 54 using the "V. Networks Controller" software that has been installed.

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Step 4 Operating Using the V.Networks Controller

The "V. Networks Controller" can also be used to perform recording/playback operations.



Step 5 Operating Using a Web Browser

Operation is possible via a web browser.

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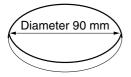
Preparation (Step 1 Connection/Installation)

1-1 Connecting Cables

- Attachment of a embedded cover in the ceiling (recess bracket) may be mandatory in certain regions. If this is so, ensure that the embedded cover (recess bracket) is securely attached before installing the camera.
- Ensure to attach the cover for the ceiling mount. Installation is not possible without attaching the cover. In addition, the cover also prevents penetration of foreign objects into the ceiling mount. Penetration of foreign objects may cause a malfunction or, in the worst scenario, cause smoking or fire.

1. Making the hole

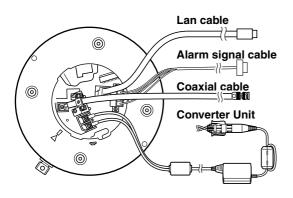
Make a hole for passing the connection cables through the inner side of the ceiling.



Make a 90 mm (3.5 inches) diameter hole in the ceiling. (Page 115)

2. Connect the cables

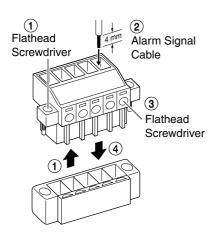
Connect the cables to the terminals on the Ceiling Mount.



The connection cables include Alarm Signal cable, LAN cable, coaxial cable and Converter Unit.

- **1. LAN cable** (Page 16) Connect to the hub or PC.
- 2. Alarm Signal cable (Page 15) Connect to devices with an alarm output terminal.
- **3.** Coaxial cable (INPage 17) Connect to the monitor, etc.
- **4.** Converter Unit (ISPage 18) Connect to AC 24 V power supply.

3. Connection to Alarm Input/Output Terminal



Connect the alarm input/output terminals to external devices such as sensors and buzzers.

- Loosen the screws on both edges of the terminal block using a flathead screwdriver, followed by dismantling it as shown in the left diagram.
- (2) Strip the coating of the alarm signal cable by about 4mm before inserting it into the terminal.
- (3) Turn the screw on the side to fasten the alarm signal cable.
- (4) Upon fastening the alarm signal cable, reinstall the terminal block that has been dismantled in Step 1.

Note

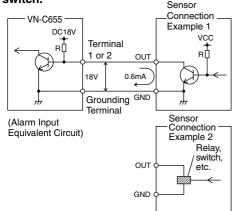
Cable Specifications

50 m or shorter in length UL1007, UL1015 or equivalent AWG#22 to AWG#18 or equivalent

Caution

Due to external noise, the cable may not function properly even when the cable length is less than 50 m. In this case, use a shielded cable or take measures such as keeping the cable away from the noise source.

This terminal is for connecting with a sensor, infrared, door or metallic, or a manual switch.

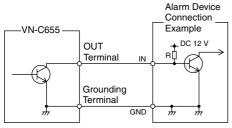


Input Requirements

- No-voltage relay input or NPN open collector input
- The polarity of the input detection can be selected via software.
- Make/Break/Toggle (at least 500 ms)
- Circuit current at low level: 0.6 mA
- Voltage applied at high level: 18 V

1-1 Connecting Cables (Continued)

This terminal is for connecting with an alarm annunciator such as an indicator, a lamp or a buzzer.



(Alarm Output Equivalent Circuit)

Output Requirements

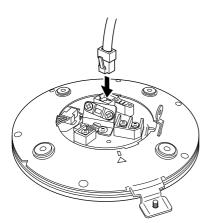
- Equivalent to NPN open collector output (The output logic is set with [V.Networks Setup Tool.])
- Allowed applied voltage: DC 12 V max.
- Allowed input current: 50 mA
- Momentary output: 1 to 5000 ms (The duration is set with [V.Networks Setup Tool.])

Caution

Connect the VN-C655 grounding terminal to the one of the annunciator.

4. Connection of LAN Cables

Connect the camera to a hub or a PC by using a LAN cable.



- For hub connection Use a straight cable.
- For PC connection Use a cross-over cable.

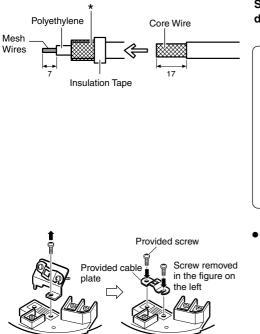
Caution

There are a few types of LAN board for which a cross-over cable cannot be used. Check the specifications of the LAN board to be used before performing connection.

Note

When using 100 BASE-TX, ensure to use a Category 5 (or higher) cable.

5. Connection of Coaxial Cables



Connecting a 5C-2V or 3C-2V coaxial cable Strip the coaxial cable according to the diagram on the left. (Unit: mm)

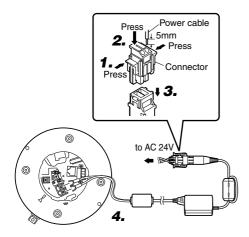
Notes

- 7C-2V coaxial cables cannot be connected directly to the terminal block. In this case, make use of the 5C-2V cable as a junction cable by connecting it to this camera.
 - * Fold back the mesh wires and secure using an insulation tape to prevent them from becoming loose and causing a short circuit.
- Video output signal of the VIDEO OUT terminal is restricted to NTSC signals.

 When mounting the coaxial cable in parallel with the ceiling mount, remount the provided Cable plate as shown in the figure.

1-1 Connecting Cables (Continued)

6. Connection of Conveter Unit



Connect the camera to AC 24 V.

1. Disconnect the connector from the supplied Converter Unit.

It can be disconnected by pressing both ends as shown in the left figure.

- **2.** Mount the power cable to the connector. Strip the cover of the power cable (about 5 mm), while pressing down the arrow portion using a flat screwdriver, insert it into the connector.
- **3.** Mount the connector.
- **4.** Connect the supplied Converter Unit to the DC 18V input terminal on the terminal stand.

When a 2-conductor VVF (Vinyl-insulated vinyl-sheath cable) is used, the maximum connection length is as shown below. (These are merely the standard reference values.)

Maximum cable length	70 m	180 m	280 m	480 m
Wire diameter (mm)	1.0 or more	1.6 or more	2.0 or more	2.6 or more

Caution)

• Connect with the appropriate power-supply voltage. The rated voltage for VN-C655 (Converter Unit) is AC 24 V, 50 Hz/60 Hz and shall be Class 2.

If a voltage exceeding the rating is supplied, malfunction, or in the worst case, fuming or fire, may be caused.

• Installation shall be performed by qualified personnel according to regulations of individual regions.

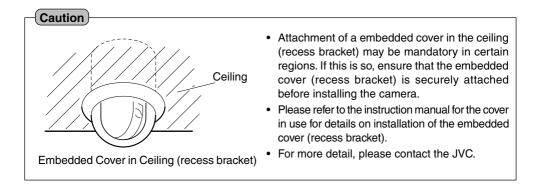
Notes

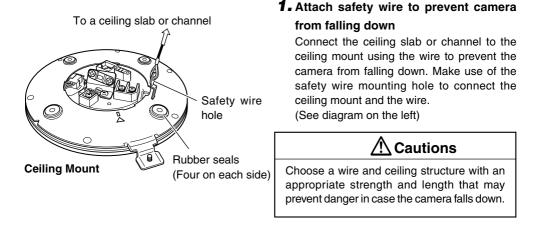
Connecting multiple VN-C655 Cameras

In a system where more than 1 VN-C655 is used, turn on the power for a VN-C655 first, followed by setting the camera until "2-3 Setting IP Address for this Camera Using the 'VN-C655U Setup Tool' " is completed. Upon doing so, turn on a second camera and perform setting in the same way. Perform the same procedure for subsequent cameras.

- Default IP address setting for all VN-C655 cameras is 198.168.0.2. When the power for multiple cameras are turned on at one time under a single LAN environment, therefore, proper access may not be established due to IP address redundancy. Do not turn on the power of more than 1 camera at the same time.
- When IP address redundancy occurs, ensure that only one VN-C655 exists under a single LAN environment, and wait for some time (at least 10 minutes). In some cases, the power for all network devices under the same LAN environment may have to be turned off and on again to enable access to VN-C655.

1-2 Attachment of Ceiling Mount

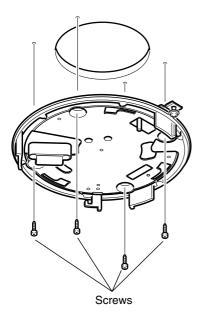




Notes

- Connect the wire so that it can be insulated from the ceiling structure.
 If the ceiling structure is made of a metallic material, improper insulation with the camera may cause noise interference in the images.
 Safety wires are not provided. Please
- Safety wires are not provided. Please purchase commercially available wires on a separate basis.

1-2 Attachment of Ceiling Mount (Continued)



2. Fasten the ceiling mount to the ceiling

While taking care not to catch the connection cables, attach the Ceiling Mount to the ceiling using four screws (as shown in the diagram). Use 8-32 UNC-sized (M4-sized) screws or bolts. If woodscrews are used, use those with a diameter of 4.1 mm.

Notes

- Be sure to use 4 screws and attach them firmly.
- The seals attached to the ceiling-mount screw holes of the ceiling mount act as an insulator between the ceiling mount and the ceiling structure. If the ceiling structure is made of a metallic material, improper insulation with the camera may cause noise interference in the images. To prevent this from occurring, ensure proper insulation during installation.

1-3 Installing the Camera



1. Attach the safety wire to prevent the camera from falling down

As shown in the diagram, pull out the safety wire from the camera and hang it to the safety wire fastening hook on the ceiling mount. Be sure to connect the safety wire to prevent the camera from falling down.

🕂 Cautions

- Do not connect cameras other than VN-C655 to the ceiling mount. Doing so may cause the camera to malfunction.
- Be sure to connect the safety wire. Otherwise, the camera may fall to the ground.

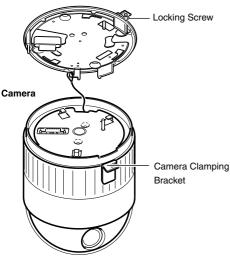
2. Check that the locking screw is loosened

The camera cannot be properly installed if the locking screw of the ceiling mount is not loosened.

3. Fit the camera to the ceiling mount

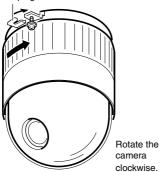
Check the position of the camera clamping bracket and that of the locking screw, and fit the camera to the Ceiling Mount.





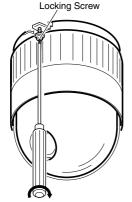
1-3 Installing the Camera (Continued)

Camera clamping bracket



4. Turn the camera

Make sure that the camera is horizontal, followed by fitting the camera to the ceiling mount and turning it in the clockwise direction until it stops. Upon doing so, check that the the camera clamping bracket is aligned with the position of the locking screw of the ceiling mount.



Tighten the locking screw.

5. Fasten the locking screw

Fasten the locking screw using a flathead screwdriver.

\land Cautions

If the locking screw is not securely fastened, the camera may vibrate or fall down. Be sure to fasten the locking screw firmly.

* To dismantle the camera, perform procedure from steps **1** to **5** in the reverse order.

Settings (Step 2 Network Settings)

2-1 Installing the Software

To operate this camera, you will have to install the necessary software according to the following procedure from the CD-ROM supplied.

Installing the V.Networks Controller

- 1. Execute "Setup.exe" in the [JVC] folder.
- 2. Follow instructions on the screen to install the software.
- If installation is successful, the → "V.Networks Controller" icon will be displayed in the [Start] → [Programs] V[V.NETWORKS] folder.

Installing the VN-C655U Setup Tool

- 1. Execute "Setup.exe". This is located inside the [Setup] folder of the [JVC] folder.
- 2. Follow instructions on the screen to install the software.
- If installation is successful, the → "VN-C655U Setup Tool" icon will be displayed in the [Start] → [Programs] [V. NETWORKS] folder.

2-2 Setting PC's IP Address [Windows XP]

Upon installing the camera, set the IP address of the PC that is used to operate this camera.

For Windows XP, set according to the following procedure.

(For Windows 2000, 🖙 Page 26)

Note

Under a DHCP environment and when the IP address assigned to V. Networks is already known, it will not be necessary to perform 2-2 "Setting PC's IP Address" as the PC's IP address is automatically acquired from the DHCP server.

1. Click BStart

• Right-click on [My Network] and select [Properties].

2. Slect the network for which the PC that operates this camera is connected to.

• Right-click to select [Properties].

Local Area Connection Properties	
Configure This cgnnection uses the following items: Image: Client for Microsoft Networks Description Transmission Control Protocol/Internet Protocol. The default wide area network protocol that provides communication across diverse interconnected networks. Show icon in notification area when connected OK Cancel	✓ Ensure that it is selected. Note Select "Install (N)" if [Client for Microsoft Networks] or [Internet Protocol (TCP/IP)] is not displayed.

3. Select [Interne	et Protocol (TCP/IP)]	and click [Properties].
--------------------	-----------------------	-------------------------

🕂 Local Area Connection Properties 🛛 🕐 🗙	
General Authentication Advanced	
Connect using:	
BMC EtherPower II 10/100 Ethernet Adapter	
Configure	
This connection uses the following items:	
Client for Microsoft Networks	
🗹 🗐 File and Printer Sharing for Microsoft Networks	
DoS Packet Scheduler	
Internet Protocol (TCP/IP)	① Select [Internet Protocol (TCP/IP)].
Install	Click [Properties].
Transmission Control Protocol/Internet Protocol. The default	
wide area network protocol that provides communication across diverse interconnected networks.	
across diverse interconnected networks.	
Show icon in notification area when connected	
OK Cancel	

4. Select [Use the following IP address], set the [IP address] and [Subnet mask] and click 0K .

Internet Protocol (TCP/IP) Properties	
General	 Select [Use the following IP address].
You can get IP settings assigned automatically if your net this capability. Otherwise, you need to ask your network a fininistrator for the appropriate IP settings. ① Datain an IP address automatically ③ Use the following IP address: IP address: ③ P address: ③ Detain an IP address: ④ Detain an IP address: ④ Detain an IP address: ⑤ Detain an IP address: ⑥ Detain an IP address: ⑥ Detain an IP address: ⑧ Detain an IP addres	 2 Set [IP address] to 192.168.0.3. Note Make sure to note down the original IP address before changing. Do not use the same IP address elsewhere within the same network environment.
O btain DNS server address automatically Image: Usg the following DNS server addresses: Preferred DNS server: Image: Usg the following DNS	③ Set Subnet mask to an appropriate value. Ask the network administrator if necessary.
Advanced	(4) Click OK.

5. Click on the [Local Area Connection Properties] screen.

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2-2 Setting PC's IP Address [Windows 2000]

Upon installing the camera, set the IP address of the PC that is used to operate this camera. For Windows 2000, set according to the following procedure.

1. Click BStart

• Select [Settings] and click [Properties].

2. Double-click [Network and Dial-up Connection].

3. Double-click [Local Area Connection].

Local Area Connection Status	?	
General		
Connection		
Status:	Connected	
Duration:	00:02:56	
Speed:	100.0 Mbps	
Activity	- 💬 - Received	
	- 📴 - Received L⊒_ 85 272	
	03 272	
Properties		1 Click Properties
	<u>C</u> lose	
Local Area Connection Propertie	s <u>?</u>	
General		
Connect using:		
SMC EtherPower II 10/100	Ethernet Adapter	1
1		
Community also also does used by	<u>C</u> onfigure]]]
Components checked are used by		
 Client for Microsoft Networ File and Printer Sharing for 	ks Microsoft Networks	
NetBELII Protocol		
Internet Protocol (TCP/IP)		Select [Internet Protocol (TCP/IP)].
	stall Properties	3 Click Properties
Description		
Transmission Control Protocol/In wide area network protocol that across diverse interconnected r	provides communication	
Show icon in taskbar when co	nnected	
	OK Cancel	

Internet Protocol (TCP/IP) Properties	? ×	
General		
You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.		
O Obtain an IP address automatically	() Select [Use the following IP address].
Use the following IP address:		5) Set [IP address] to 192.168.0.3.
Subnet mask: 255 . 255 . 255 . 0 Default gateway: 192 . 168 . 0 . 254		B) Set Subnet mask to an appropriate value.
C @ <u>b</u> tain DNS server address automatically		Ask the network administrator if
☐ Use the following DNS server addresses:		necessary.
Preferred DNS server:		
Alternate DNS server:		
Advanced		
OK Canc		

4.Click OK

2-3 Setting IP Address for this Camera Using the "VN-C655U Setup Tool"

Set the IP address for VN-C655 using the "VN-C655U Setup Tool" that has been installed. (This "VN-C655U Setup Tool" only allows connection of VN-C655.)

Caution

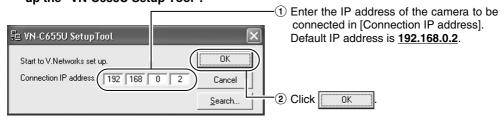
- Upon turning on the power of this camera, it may take about 60 seconds before it can be connected to the PC.
- At the factory, DHCP is enabled for VN-C655.
- Using DHCP

JVC does not recommend operating VN-C655 with the DHCP function enabled because a different IP address may be assigned upon the renewal of the leasing contract. The DHCP function of VN-C655 is included with the aim to simplify installation/setting procedures.

Note

 To connect to a VN-C655 for which DHCP has been enabled, the DHCP server must exist in an environment where the assigned IP address and MAC address are clearly defined. If the DHCP server is not found, it will automatically start up using the static IP address after 60 seconds.

1. Select [Start] → [Programs] → [V.NETWORKS] → **[**[VN-C655U Setup Tool] to start up the "VN-C655U Setup Tool".



Note

To view the IP address of the connected camera, click "Search".

 W V.Networks Search
 Search

 V.Networks IP Address List
 Search

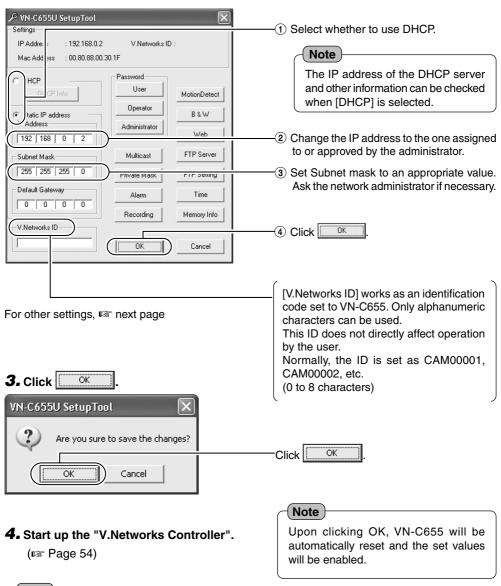
 Search
 Search

 Search
 Click

 Search
 OK

- [TimeOut] is for setting the time for searching (1 to 30 seconds). If no IP address is displayed upon searching, change the value to a longer time and search again.
- If the [V.Networks] on the LAN has a different subnet from that of the PC, connection may not be possible even if the IP address of the camera is found via search. Change the IP address of the PC to an appropriate value and connect the camera.

2. Check settings.



Note

In a system where more than 1 VN-C655 is used, turn on the power for a VN-C655 first, followed by setting the camera until "2-3 Setting IP Address for this Camera Using the 'VN-C655U Setup Tool' " is completed. Upon doing so, turn on a second camera and perform setting in the same way. Perform the same procedure for subsequent cameras.

2-4 Other Settings Using the "VN-C655U Setup Tool"

Perform setting of details other than the IP address using the "VN-C655U Setup Tool" that has been installed.

1. Select [Start] → [Programs] → [V.NETWORKS] → ∑ [VN-C655U Setup Tool] to start up the "VN-C655U Setup Tool".

	Static IP Addre [192]	In the second se	192.168.0	0.30.1	Password User Operator Administrator Multicast Private Mask Alarm Recording	MotionDetect B & W Web FTP Server FTP Setting Time Memory Info	50 50 50 50 50 50 50 50 50 50 50 50 50 5	Page Page Page Page Page Page Page	43 49 45 46 47 51
		 ? Pa	। ङ Pa ge 42	ge	<u>ок</u> Раде 40 34	Cancel			
13	🕫 Pa	ge 32	2						

2. Refer to the relevant pages (INF) for setting of other details.

2-4 Other Settings Using the "VN-C655U Setup Tool" (1. Password Setting)

PCs (users) connected to this camera are regulated via an access protection function which requires a password entry.

Passwords can be set or canceled using the "VN-C655U Setup Tool".

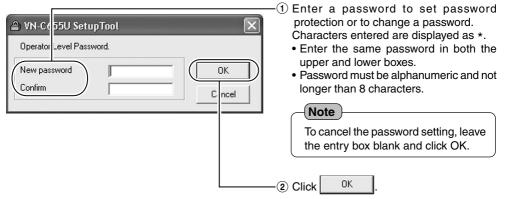
A different password can be set for each of the 3 authorization levels, namely user, operator and administrator.

Authorization Level	Allowed Access
User	Viewing of motion images only
Operator	All operations using the V.Networks Controller
Administrator	All of the above and all settings using the VN-C655U Setup Tool

Note

Do not forget the passwords as canceling or changing of passwords is not possible unless the current and correct password is entered.

1. Start up the "VN-C655U Setup Tool", followed by selecting [User], [Operator] or [Administrator] under [Password] setting.



2. The following confirmation screen will be displayed.



Notes

- For a password-protected VN-C655, a password request screen will be displayed.
- VN-C655 setup will not be possible unless the correct administrator password is entered.
- Security level increases in the order from user to operator to administrator. Password protection
 will not be valid if a password is assigned only to a lower level but not to a higher one.

2-4 Other Settings Using the "VN-C655U Setup Tool" (2. Multicast)

Selecting Multicast mode allows VN-C655 to send the same image data to multiple PCs on the network at one time without lowering the frame rate.

1. Start up the "VN-C655U Setup Tool" and select [Multicast].

The [Multicast Setting] screen will be displayed.

원 Multicast setting			
C Unicast mode			
Multicast mode	-1) Se	lect [Multicast M	ode].
- Multicast address			
C High Speed Image: Normal 225 0 1 1	-	ormal : Set i	r acquiring images. to Normal when using a ow bandwidth network.
225.0.0.0 - 239.255.255.255	Hi	rate	aximum transmission of 30 fps is possible 340 x 480 images.
Cancel		Notes	
		when set to Hig	ed into IP fragments h Speed. gh Speed for narrow
		bandwidth netw	
	•	is 8Mbps.Even v selected, a max may not be pos	ansmission capacity when High Speed is imum rate of 30 fps sible for 640 x 480 ng on the image size.
	•		mum Transmission Ig image acquisition
		Transmission Mode	MTU Size (Bytes)
		Normal	1430 Bytes
		High Speed	1500 Bytes

Multicast

- Set the multicast address within the range between 225.0.0.0 to 239.255.255.255. Do not set the same multicast address for different devices on the same system.
- To view VN-C655 images in the multicast mode through a router, either the following operating environment or router setting will be required.
 - ① The router supports IGMP Ver2 and is synchronized with the starting and stopping of the multicast transmission, and the router settings can be dynamically changed.
 - ② If the router does not support IGMP Ver2, a static route for multicast must be set to the router.
- When there are multiple cameras on the same subnet that are set to the multicast mode, set up a network using a hub that supports the IGMP snooping feature.

It is possible to search for the multicast address of a VN-C655 that is connected to the network.

1. Start up the "VN-C655U Setup Tool".

匙 VN-C655U SetupTool	×		
Start to V.Networks set up.	ОК		
Connection IP address. 192 168 0 2	Cancel		
	Search	- Click	<u>S</u> earch

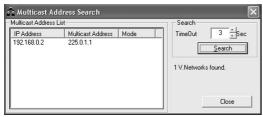
2. The [V.Networks Search] screen is displayed.

🛱 V.Networks Search	\mathbf{X}	
- V.Networks IP Address List	Search TimeOut 3 Sec	
	MulticastSearch OK	Click MulticastSearch

3. The [Multicast Address Search] screen is displayed.



4. The search result is displayed.



2-4 Other Settings Using the "VN-C655U Setup Tool" (3. Alarm Setting)

This section describes procedures for alarm setting.

Alarm Input

- When there is an input of signals to the alarm input terminal on the ceiling mount.
 (IN) Page 15 "Alarm Input Terminal")
- When motion is detected. (INP Page 43 "Motion Detection Setting")
- Upon movement to a new position.
- When there is a change in the Black & White mode.

Operation when an alarm input is activated

- Output signals are sent from the alarm output terminal on the ceiling mount.
 (IIS Page 16 "Alarm Output Terminal")
- Alarm packets are sent to the PC. (INST Page 37 "Message Packet")
- The camera shifts in position.
- · Black & White mode changes.
- Images are uploaded to the FTP server. (I Page 47 "FTP Client Setting").

m Input Uther Trigg Alam1 Mode Detect Mode Alam Output Go to a preset position Return Mode Interval Black & White Message Packet Alam FTP Alam2 Mode	Available Make Not Available Not Available Not Available	Relay Alam Use Relay Alam Alarm1 I use Relay Alam I use Relay	Not Available	(
Alarm Dutput Go to a preset position Return Mode Interval Black & White Message Packet Alarm FTP List	Not Available	Retry (1 to 3)	1 times Cancel App	

1. Start up the "VN-C655U Setup Tool" and select [Alarm].

2. Click the [Other Triggers] tab on the [Alarm Setting] screen.

Alarm Setting		_		×		6
Preset Position Mode Alarn Output Black & White Message Packet	Available Not Available Not Available Not Available Not Available	Motion Detection Mode Alarm Output Message Packet Alarm FTP	Available Not Available Not Available Not Available			6
Mode Alam Dutput Go to preset position Return Mode Interval Message Packet	Available Not Available Not Available Not Available Not Available Not Available Not Available Not Available Not Available Not Available					7
List)	ОК	Cancel	Apply		4

3. When setting is complete, click ______ followed by _____.

4. Click the [Alarm Output] tab on the [Alarm Setting] screen.

Alam hiput Other higo 3 Output OFF Output Output Output Output	t Alarm Setting	\bowtie	•
Output Output Goes output © OFF Output OFF Pattern Level Interval 100 ms Output Value Output OFF Output 2 force output Output 2 force output Output Value Output OFF Pattern Level Itterval 100 ms	Alarm Input Other Trigge Alarm Output		8
Image: Constraint of the constr		Output1 force output	
Output Value Output OFF Pattern Lovet Interval 100 ms Output Value Output OFF Output Value Output OFF Pattern Lovet Interval 100 ms Output Value Output the Output2 complying with current settime. Pattern Lovet Interval 100 ms	@ OFF	Output the Output1 complying with current	
Output Value Pattern revel Interval 100 ms Output Value Output Value	CON	settings.	
Pattern evel Interval 100 ms Output2 Output2 force output Output Value Output the Output2 complying with current settins. Pattern Level Interval 100 ms Output the Output2 complying with current settins. Output the Output2 complying with current settins.	OutertMaker		
Interval 100 ms Output2 • OFF • ON Output Vale Output OFF Pattern Interval 100 ms Output Output <	Pattern		
Output2 Output2 force output OFF Output Vale Output Vale Output OFF Pattern Level Underst Output	,	Output	
C OFF C ON Unput Value Output OFF Pattern Level Interval 100 ms Output the Output complying with current setting. Dutput the Output complying with		- Outral 2 force outral	
C ON Duput OFF Patern Interval 100 ma Duput Duput Compact off Compact off			v
Output Value Pattern Level Interval Output Output		Super the Super Compying that concil to comp	
Pattern Level Dutp.t	Output Visikus		
	Output OFF		
	Pattern		
	,	Output	
List OK Carcel Apply	Interval 100 ms		
List OK Carcel Apply			
List OK Cancel Apply			
List OK Carcel Apply			
List OK Carcel Apply			
List OK Cancel Apply			
List OK Carcel Apply			
Liat OK Cancel Apply			
List OK Cancel Apply			
List OK Cancel Apply			_
List OK Cancel Apply			A
List OK Carcel Apply			v
List DK Cancel Apply			
List DK Cancel Apply			
	List	OK Cancel Apply	

5. When setting is complete, click _____ followed by ____.

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2-4 Other Settings Using the "VN-C655U Setup Tool" (3. Alarm Setting) (Continued)

Alarm Input

Item		Function/Set Value	Initial Value		
Alarm 1/Alarm 2		This section describes setting procedures for alarm input.			
•	Mode	For selecting whether to enable or disable the input signals. Set Values : Available, Not Available	Not Available		
	Detect Mode	For selecting the method for detecting input signals. Make : Detect input signals at the "Make" contact point. Break : Detect input signals during "Break". Toggle : Detect input signals at both "Make" and "Break".			
	Alarm Output	 For selecting whether to output from the alarm output terminal when there is alarm input. Not Available : Do not output from the alarm output terminal. Alarm Output 1 : Send output from the Alarm Output 1 terminal. Alarm Output 2 : Send output from the Alarm Output 2 terminal. Note Unless the alarm output in the "Alarm Output" tab is enabled, this function will not be activated even if alarm output is selected in the alarm input settings. (ISP Page 39) 			
	Go to a preset position	For setting whether to move to the preset position when there is alarm input. Not Available : Do not move to the preset position. Home : Move to the home position. 1 to 99 : Move to the preset position.			
	Return Mode	For setting whether to return the camera that has moved to the preset position upon the alarm input back to the home position. Use [Return Interval] to set the time interval before returning the camera to its home position. Not Available : Do not return to home position. Return : Return to home position. Event : Return to home position if operation is not in the manual mode.			
	Interval	For setting the time interval before the camera returns to its home position when [Return Mode] is set to "Return". Set Value : 0 to 65535 sec	0		
	Black & White	For switching from the Color to Black & White mode when there is alarm input. Not Available : Do not switch between Black & White/Color mode. Color : Color mode at all times. Black & White : Black & White mode at all times. Auto : Switch automatically between Black & White and Color mode according to the brightness of the object.	Not Available		
		 Note When Auto is selected, switching may fail in some cases due to the lighting conditions or angle of view. In order to ensure that switching is properly performed, it is recommended that signals from an external sensor (sold separately) be input to the alarm terminal of this camera. 			

Item	Function/Set Value	Initial Value
Alarm 1/Alarm 2	(Continued)	_
Message Packet	For setting whether to send alarm packets to the PC when there is alarm input. Not Available : Do not send alarm packets. Available : Send alarm packets.	Not Available
Alarm FTP	For operation according to the [Alarm FTP] in the FTP Client feature when there is alarm input. Please refer to FTP Client Settings (I Page 47) for details on alarm FTP. Set Values: Available, Not Available	Not Available
Pelay Alarm	Set here to enable the relay alarm function, which is activated when 2 alarms are received within a preset time interval. The sequence and time interval for the alarm input can be specified. When [Alarm Output] is selected, alarm signal output will be sent to the alarm output terminal on the ceiling mount accord- ing to the output port settings.	
	 Notes A second alarm input enables this relay alarm function, and alarm will not be activated for this second input. Unless the alarm output in the "Alarm Output" tab is enabled, this function will not be activated even if alarm output is selected in the alarm input settings. (ISP Page 39) 	
Alarm Output Go to a preset position Return Mode Interval Black & White Message Packet Alarm FTP	* Please refer to the [Alarm 1/2] item for details on the set values.	*Please refer to the [Alarm 1/2] item for the initial values.
Retry (1 to 3)	 For setting the no. of times alarm notification is to be sent to the "V.Networks Controller". (Set Value: 1 to 3) Note Alarm notification may fail, depending on the LAN environment in use. If it fails, set the value for alarm notification to "3". In this case, alarm by the "V.Networks Controller" itself is set off only once. 	1
List	 Press here to display the IP address of the PCs to which an alarm notification is sent. ("Distribution Address List" Screen) To delete a distribution address, select the IP address to delete, followed by pressing the Delete button. Notes The list allows setting of up to 10 addresses. Message packets will not be sent out when there are 11 or more addresses. 	_

2-4 Other Settings Using the "VN-C655U Setup Tool" (3. Alarm Setting) (Continued)

Other Triggers

	Item	Function/Set Value	Initial Value
6	Preset Position	For performing the following operations by using movement to preset positions as triggers.	—
	Mode Alarm Output Black & White Message Packet	* Please refer to the [Alarm 1/2] item for details on the set values.	*Please refer to the [Alarm 1/2] item for the initial values.
6	Motion Detection	For setting alarm operations when motion is detected within the area specified in the motion detection settings.	—
	• Mode • Alarm Output • Message Packet • Alarm FTP	* Please refer to the [Alarm 1/2] item for details on the set values.	*Please refer to the [Alarm 1/2] item for the initial values.
0	Black & White	For performing the following operations by using switches between the Color and Black & White modes as triggers.	—
	 Mode Alarm Output Go to a preset position Return Mode Interval Message Packet 	 * Please refer to the [Alarm 1/2] item for details on the set values. Note The Black & White alarm may be activated upon restarting VN-C655. 	*Please refer to the [Alarm 1/2] item for the initial values.

Alarm Output

Item		Function/Set Value	Initial Value	
8	Output 1/ This section describes the setting procedures for alarm output. Set Values : ON, OFF		OFF	
	Output Value Select the alarm output method. Output OFF: Output alarm signals when the Alarm Output or Alarm Output 2 terminal is connected to the GND terminal. Output ON: Output ON: Output alarm signals when the Alarm Output or Alarm Output 2 terminal and the GND terminal are disconnected from each other.		_	
	Pattern	Level: Continue output of alarm signals throughout the alarm input process.Momentum: Output alarm signals only at the specified time. Specify time using the Return Interval item.		
	Interval	For setting the output interval when the Output Pattern item is set to Momentum. This is disabled when the Output Pattern item is set to Level.		
9	Output 1 force output/ Output 2 force output	Upon pressing the Output button, alarm signal output will be sent from the alarm output terminal on the ceiling mount. This is used for checking the alarm operation. Notes • Output is disabled when the Output Pattern item is set to "Level".		

2-4 Other Settings Using the "VN-C655U Setup Tool" (4. Recording Setting)

This function records the image to the memory of VN-C655 when an alarm is activated.

 When an alarm is activated, image recording can be carried out in one of the following two ways. One way, local recording, saves images to the VN-C655 memory, and the other record images with [V.Networks Controller] and saves them to the PC hard disc drive, etc. (R Page 67)

1. Start up the "VN-C655U Setup Tool" and select [Recording]. To make new values effective, click on [Apply], followed by [OK].

• Setting the [Trigger Recording] screen

🛍 Recording 🛛 🔀	
Trigger Recording Frame Rate Advance	
Trigger ✓ Alarm1 ✓ Alarm2 ✓ Relay Alarm ✓ MotionDetection	—(1) Select alarm input signal "Trigger" for starting local recording.
OKCancelApply	(2) To set the frame rate for local recording, select "Change the Recording Frame Rate during trigger recording", followed by selecting the frame rate accordingly. Default frame rate is set at 10 fps. A frame rate of 10 fps for recording will be used when this box is not checked. (Set values: 30, 15, 10, 8, 6, 5, 4, 3, 2, 1)
Setting the [Frame Rate] screen Recording Trigger Recording Frame Rate Advance	3 For setting the recording time. This can be set up to 30 seconds before and 60 seconds after the alarm input.
Frame Rate Image recording Frame Rate Image recording Image recording Image recording Recording time Before trigger Image size, framerate, trigger frequency, etc. of V.Networks may be unable to perform local recording of Priority Frame Rate	 Cautions [Before trigger] and [After trigger] values cannot be set to "0" at the same time. Due to the memory capacity of VN-C655, recording time set for [Before trigger] and [After trigger] may differ from the actual maximum recording time. (Example) If 320x240 (15 fps)/640x480 (5 fps) with a compression rate of 2, the actual recording time is 5 to 0 and 30 to 35 seconds, before and after a trigger respectively. 4 For setting the priority. Frame Rate : Priority is given to frame rate settings. Recording Time : Frame rate is automatically adjusted such that recording can be performed according to the specified recording time.

Setting the [Advance] screen 4 For setting the recording action when the 🗟: Recording memory capacity for recording has become Trigger Recording Frame Rate Advance full. One of the following actions can be Lower Memory Size selected. (Internal memory capacity is 8 MB.) C Recording is stopped until an availability is made Stop recording until a free memory space for Remove old files recording is created. 0 Days · Remove old files that have exceeded a specific number of days. (If the number of days is set to "0", files will be deleted starting with the oldest one.) Cautions When record setting that exceeds the recording capacity is performed with [Remove old files] ΟK Cancel Apply set to "0 days", recorded files will not be retained. To retain the files, change the value for [Remove old files] or alter the record settings.

Notes

Recording time

While maximum recording time varies with the recording frame rate and image size, recording over a specified length of time may not be possible depending on the compression level and object.

Recording files

A trigger-recording file is created each time a trigger occurs. If successive triggers occur over a continuous period of time, these will be recorded into 1 file.

Cautions

Loading local recording images to the PC

Rec files containing local recording images may also be uploaded automatically to the FTP server. (I Page 47, "Rec File")

Perform the following procedure to load local recording images to the PC.

谢 Playback	s File	
- File Type	V.Networks	(1) Calact (Defer to Lease) Dec 1
C MPEG	CAMERA1 Refer to Local Rec.	Select [Refer to Local Rec.].
 JPEG 	C:\Documents and Settings\All Users\Documents\V.Networks\CAMER4	
Please select	file Refer to file.	
C: [FAT](2005/01/28 11:57:56 - 2005/01/28 11:57:58 2005/01/28 11:58:00 - 2005/01/28 11:58:02	2 Select the file to load.
	ints and Settings	3 Right-click on the selected file and select
Documents [Download to PC].		
CAMERA1		
	Network	
	OK Cancel	

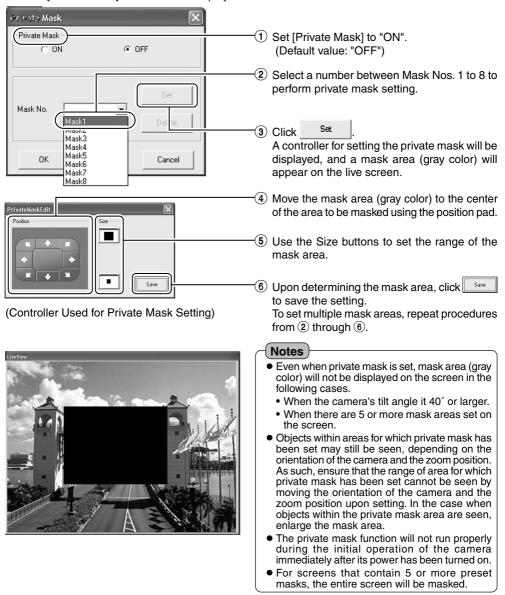
To obtain information on whether local recording has started, check the [Trigger] box on the [Recording] screen, followed by setting [Message] in [Alarm Setting] of the V.Networks Controller. (I Page 68)

2-4 Other Settings Using the "VN-C655U Setup Tool" (5. Private Mask Setting)

Use the Private Mask function to gray out areas on the screen that are to be excluded during shooting. Up to 4 private masks can be set for each display screen and a total of 8 private masks for each camera.

1. Start up the "VN-C655U Setup Tool" and select [Private Mask].

The [Private Mask] screen will be displayed.



2. When all the settings have been completed, click _____K to end.

2-4 Other Settings Using the "VN-C655U Setup Tool" (6. Motion Detection Setting)

For setting the motion detection function, which activates the alarm when there is motion in the camera image. Perform the following procedure to set area for motion detection.

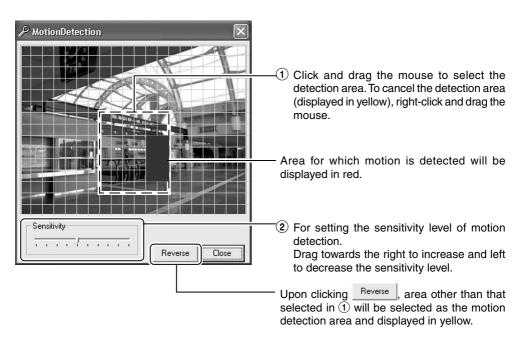
- **1.** Start up the "VN-C655U Setup Tool", select [Alarm Setting] and set [Motion Detection] to "Available". (1877 Page 38 "Other Trigger")
- 2. Select [Motion Detect] under [VN-C655 Setup Tool].

Motion Detection	
-Motion Detection-	Select "ON" to turn on the motion detection feature.
Mode	 2 Set the detection mode. Fixed area
Fixed area	Set motion detection only for a specific area. Select a preset position, followed by clicking
Home Setting	Setting . The Motion Detection Setting screen will be displayed.
C Free area	(Set values: Home, Position 1to Position 99) Free area Motion detection is activated for all areas.
Duration of motion detection	 For setting the time interval for defining a motion.
Duration 0 s (0-3)	When there is intensive motion throughout the entire screen, lengthening the time interval will
[]	help to prevent false detection. (Set value: 0 to 3)

2-4 Other Settings Using the "VN-C655U Setup Tool" (6. Motion Detection Setting) (Continued)

3. Perform area setting.

Image of the position that is selected as the Fixed area in 2 of Step 2 will be displayed.



Notes

- The area display position only serves as a guide. Ensure to perform operation check.
- Each screen is divided into 300 (20x15) blocks. Adjust the zoom ratio of the lens such that the object for which motion is to be detected is at least the size of multiple blocks.

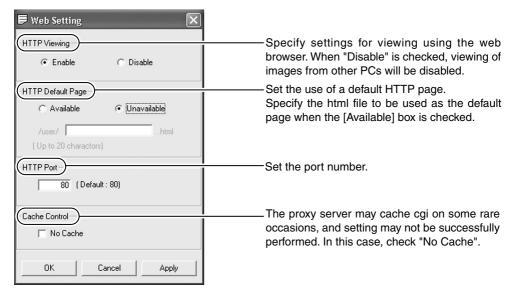
Cautions

- Flickering lights may cause false detections in motion when the camera is connected.
- When brightness varies due to the use of the auto iris function or lighting conditions, this may be detected as motion. In this case, it is recommended that the detection time be set to a value other than "0".
- When automatic control is enabled, false detection may occur at the instant when the camera starts to move. In this case, it is recommended that the detection time be set to a value other than "0".
- Note that the motion detection function is not designed to prevent theft or fire. It may not
 function properly under certain object or setting conditions. We shall not be responsible for
 any accident or losses incurred.

2-4 Other Settings Using the "VN-C655U Setup Tool" (7. Web)

A designated html file can be set as the default page for the web browser using this setting.

1. Start up the "VN-C655U Setup Tool" and select [Web].



Cautions

• It is possible to increase the security level by setting the HTTP server port number of this camera to a value other than the default value of 80 (value can be set between 1 to 65535. However, 21 and 554 cannot be used).

Upon changing the HTTP port number, access from the web browser by entering http:// 192.168.0.2:12345 or http://192.168.0.2:12345/index.html (when the port number is changed to 12345). If you have lost track of the HTTP port number, check using the setup tool provided.

 Default page refers to the page displayed upon specifying the IP address such as http:// 192.168.0.2 at the web browser.

Even when this feature is set to "Enabled", an error message indicating "404: Not Found" will be displayed when http://192.168.0.2 is entered if the html file specified here does not exist. Be sure to enter correctly.

Displaying still images uploaded to the /user folder

Still images in the /user folder can be displayed by creating a web page containing the following: <**IMG SRC =**"/user/xxxxx">

(xxxxx refers to the file name of the still image)

2-4 Other Settings Using the "VN-C655U Setup Tool" (8. FTP Server)

HTML pages or gif and jpeg images can be uploaded to this camera by using the FTP Client software.

1. Start up the "VN-C655U Setup Tool" and select [FTP Server].

FTP Server Setting		×
FTP Server Function	• OFF	
ОК	Cancel	Apply

Set the FTP Server Function to "ON" or "OFF".

Notes

- The FTP user name is fixed as "Administrator". Use the administrator level password as the FTP password.
- About 256 KB is allocated as the FTP's user area.
- All uploaded files will be placed under the /user folder. Access from the web browser is possible by entering http://192.168.0.2/user/ aaa.html.(192.168.0.2 is the IP address for this camera when referring to aaa.html that is stored in the FTP.)
- Folders cannot be created on the FTP server of this camera. Only uploading, deletion and renaming of files are possible.

2-4 Other Settings Using the "VN-C655U Setup Tool" (9. FTP Client Setting)

VN-C655 is equipped with a "FTP Client" feature that uploads still images to the existing FTP server on a regular interval. This feature enables simultaneous image monitoring by many clients (from many locations).

1. Start up the "VN-C655U Setup Tool" and select [FTP Setting].

The [FTP Setting] screen will be displayed.

	Continuous FTP
FTP Setting	Check [Available] to enable the FTP
Continuous FTP	feature.
Available (Not Available	Trigger FTP
2 Trigger FTP	• Rec File
C Rec File C Alarm FTP C Not Available	*.rec files containing local recording
3 Username Password	images will be uploaded automatically
anonymous	to the FTP server.
(1-16 charactors) (0-32 charactors)	Alarm FTP
5 FTP Server IP Address FTP Port	For uploading still images (JPEG) to
0 0 0 0 0 1 21 (Normally port 21)	the FTP server when there is an
7 FTP Folder	alarm input.
	For detailed settings, refer to the alarm FTP upload settings.
(0-64 charactors)	(ISF Page 48)
8 Upload Interval	(
60 s (0-65535) disconnect everytime	
	Notes
On connect error On transfer error Retry forever	Uploading starts automatically
C 10 min. Retry. (1-600)	when a rec file is created.
	• To delete a rec file, following the
(Filename)	[Lower Memory Size] setting on
(vnetworks .jpg (1-32 charactors)	the recording setting screen.
C Timestamp (ex.2002-01-23-01-23-45-678.jpg)	When there is not enough free
	space in the built-in memory of VN-
Alarm FTP upload settings	C655 to create a Rec file, the [Rec
Upload Interval 1 s	file] setting will not be executed. To
	enable the [Rec file] setting, it is
Before trigger 5 s After trigger 5 s	recommended that the [Remove
	old files] setting under [Lower
OK Cancel Apply	Memory Size] setting is set to [0].
	Uploading of still images will
	temporarily stop when uploading

of Rec file starts.

2-4 Other Settings Using the "VN-C655U Setup Tool" (9. FTP Client Setting) (Continued)

3 Username

Enter the user name to use for verification with the FTP server. It can be set as "anonymous".

Password

Enter the password to use for verification with the FTP Server. Characters entered are displayed as " * ".

G FTP Serverv IP Address

Enter the IP address of the FTP server at the upload destination.

6 FTP Port

Enter the FTP port number at the upload destination.

This is normally set to "21".

FTP Folder

Enter the folder name on the FTP server at the upload destination.

Images will be uploaded to the default folder when this is left blank.

Opload Interval

Specify the upload interval at which images are uploaded to the FTP server.

(Set value: 0 to 65535)

If "Disconnect every time" is selected, connection with the FTP server will be cut off upon uploading of each image.

Series From the second seco

(Connection error)

Specify a recovery action when an error occurred with the TCP connection or FTP verification of VN-C655.

- Retry forever: Recovery attempt is repeated until the power for VN-C655 is turned off.
- * mins. Retry : Recovery attempt is repeated for a specified duration.

Set value (*) 1 to 600 mins

(Transfer error)

Specify a recovery action upon occurrence of a file transfer error while uploading the images.

Disable FTP : Disable the FTP function automatically.

Note

To resume operation, set **1** [Continous FTP] to "Available".

Filename

*.jpg : Check this item to upload file with the name that appears in the position indicated as " * ".

Note

Files are always overwritten with the latest ones and therefore only 1 image file will be stored in the FTP server.

Timestamp : Upload the time of the internal clock in VN-C655 as the file name.

Notes

- Ensure to set to the correct time on the Time Setting screen.
- All image files uploaded are stored in the FTP server.

Alarm FTP Upload Setting

Specify the method for uploading still images via the alarm FTP.

Upload Interval:	Set the time interval for uploading JPEG images to the FTP server when there is an alarm input. Set value: 0 to 60 seconds
Before trigger :	Set the time interval for uploading images before an alarm input. Set value: 0 to 5 seconds
	before trigger
After trigger :	Set the time interval for uploading images after an alarm input.
	Set value: 0 to 60 seconds

after trigger

2-4 Other Settings Using the "VN-C655U Setup Tool" (10. Black & White Setting)

1. Start up the "VN-C655U Setup Tool" and select [B & W].

The [Black & White] screen will be displayed.

🗑 Black and White 🛛 🗙	
Black and White	
Mode Color 💌	0
Auto Level Normal	0
One Push AF OFF	<u> </u> €
Light Normal	<u> </u>
Trigger Setting	Click Trigger. The [Trigger Setting] screen will be displayed.
Cancel	
Trigger Setting	
	Set the [Time Trigger] for switching the Black & White mode at the specified time.
Viele Ot	Time1/Time2
Mode Color	Mode Black and White
Time 07:00	: Switches to the Black & White mode upon reaching the specified time.
Mode Black and White	Color : Switches to the Color mode upon reaching the specified time.
Time 18:00	Auto : Switches automatically between the Black & White and Color modes according to the brightness upon reaching the specified time.
Cancel	Time Time at which the selected "Mode" will be

<Trigger Setting Screen>

activated.

ΟK 2. When all the settings have been completed, click to end.

2-4 Other Settings Using the "VN-C655U Setup Tool" (10. Black & White Setting) (Continued)

Mode

For setting the function on switching from Color to Black & White mode.

Black & White	: Black & White mode at all
	times.:
	Black & White mode at all
	times.
• •	

Color : Do not switch to the Black & White mode.

Auto : Switches automatically to the Color mode when brightness level of the object is high, and to the Black & White mode when brightness level of the object is low.

Note

To ensure switching between the Black & White / Color modes Switching between Black & White / Color may be performed according to the brightness of the object when the mode is set to Auto. However, this may sometimes fail due to the lighting condition or angle of view.

In order to ensure proper switching, it is recommended that switching be performed by inputting signals from an external sensor (sold separately) to the alarm terminal of this camera.

Auto Level

For setting the signal level of the object that will be switched to the Black & White mode when the [Mode] item is set to "Auto".

Setting is disabled if [Mode] is set to any value other than "Auto".

- Low : Switch to the Black & White mode when signal level of the object is low.
- Normal: Switch to the Black & White mode when signal level of the object is normal.
- **High** : Switch to the Black & White mode when signal level of the object is high.

One Push AF

For setting whether to adjust focus automatically when switching between the Color / Black & White modes.

ON : Turn on auto focus function. **OFF** : Turn off auto focus function.

Note

When in the Black & White mode, this camera is sensitive to both visible and near-IR light. As such, images may become out of focus upon switching from the Color to Black & White mode, depending on the type of light source used. When this occurs, adjust the focus again in the Black & White mode.

4 Light

Set according to the type of lighting used for the object when in the Black & White mode.

- Normal : Set to this when a normal light is used.
- **IR** : Set to this when using an infrared emission light.

Note

Switching from the Color to Black & White mode may not function correctly if the "IR" setting is used under ordinary sunlight or fluorescent light.

2-4 Other Settings Using the "VN-C655U Setup Tool" (11. Time Setting)

This section describes how to set the standard time for VN-C655. NTP can also be used for this function.

1. Start up the "VN-C655U Setup Tool" and select [Time].

There are 2 methods of setting, depending on whether NTP is to be used.

Curfent Time Setting	—— When NTP is not used
NTP OFF Friday , January 28, 2005 4:08:45 AM	(1) Set the date and time.
Set- Refer to PC Time Refer to GMT	Allows reference of PC time.
	—— When NTP is used
NTP Server IP address	The IP address of the NTP server to be used.
Time zone	Set the time zone.
Adjust Time Every 0 day(s) 0 hour(s) OK Cancel Apply	③ Set the time interval for acquiring the current time from the NTP server.

Notes

- When using NTP, an NTP server will be required.
- When the time is changed during local recording, local recording time may not be correctly counted and recording for the specified number of seconds may not be obtained.
- Even upon selecting the NTP server and applying the settings, you will have to set the time again when the power is turned on if the NTP server cannot be used.
- The NTP server function is enabled by default upon standard installation of Windows XP Home Edition and Windows XP Professional.
- For Windows 2000, perform the following setting to enable the NTP server function.
 - 1. Set the following registry value to "1". (Default: "0") HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\W32Time\Parameters\LocalNTP

Note that registry editing is a highly risky operation.

Editing operations shall be performed at your own risk. Please store backups of the registry as a safety measure. JVC shall not be held liable for any accident that arise from this operation.

Restart the Windows Time Service (= Stop and start again).
 Open the [Properties] for Windows Time Service from [Services] under [Administrative Tools].

2-4 Other Settings Using the "VN-C655U Setup Tool" (12. Memory Information)

It is possible to check the memory capacity of VN-C655.

1. Start up the "VN-C655U Setup Tool" and select [Memory Info].

🛎 Memory Info				\mathbf{X}
Capacity Free Space			k byte k byte	
	0	K		

(1) Check the available memory space. (The built-in memory capacity of this camera is about 8000 KB.)

2-5 Registering Connected Camera Using the "V.Networks Controller"

The connected camera can be registered with the installed "V.Networks Controller".

1. Select [Start] → [Programs] → [V. NETWORKS] → **Y** [V.Networks Controller] to start up the "V.Networks Controller".

2. Select [File] and [New].

3. The [New] screen will be displayed.

	—① Enter the [IP Address].
M New	Note
IP Address: 192 168 000 002	In a DHCP environment, enter the IP address that is assigned to this camera by the DHCP server.
V.Networks Name: CAMERA1 Save in: C:\Documents and Settings\All Users\Documents\V.Network Browse	 2 Enter the [V.Networks Name]. Do so by using a name convenient for subsequent selection, such as the installation location or number. (1 to 40 characters)
Request Mode	—3 A folder with the name entered in 2 will be created inside the folder specified here, and recorded files will be stored here.
Start recording on connection	—④ Select the mode for acquiring images. Normal :
No C Yes	Client will send requests for each image to VN-C655.
OK Cancel	Set to Normal when using a narrow bandwidth network.
	High Speed:
	Images will be automatically sent from VN- C655 at the specified frame rate. A maximum transmission rate of 30 fps is possible for 640 x 480 images. When sending out images to multiple clients at the same time, however, transmission at a rate of 30 fps for 640 x 480 images will not be possible.

Notes

- Images are divided into IP fragments when set to "High Speed".
- Images will be sent at the frame rate set at VN-C655. When setting the frame rate to "High Speed", do so upon ensuring that this does not impose excessive burden on the network. (INST Page 65)
- Do not set to high speed for narrow bandwidth networks.
- Maximum data transmission capacity is 8 Mbps. A maximum rate of 30 fps may not be possible for 640 x 480 images depending on the image size.
- The MTU (Maximum Transmission Unit) sizes during image acquisition are as follows.

Transmission Mode	MTU Size (Bytes)
Normal	1430 Bytes
High Speed	1500 Bytes

4. Connect to VN-C655.

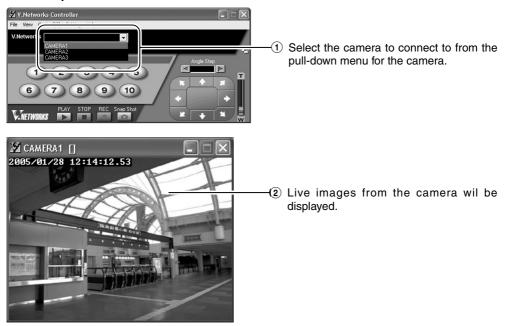
V.Networks Settings	Notes
Confirm the information here. IP Address: 192.168.0.2 V.Networks Name: CAMERA1 V.Networks Type: VN-C655U V.Networks ID: Save in: [C:\Documents and Settings\All Users\Documents\V.Network	 To connect to a VN-C655 for which DHCP setting is possible, either one of the following environments will be required. Environment where no DHCP server exists. Environment with a DHCP server that clearly defines the IP and MAC addresses assigned to VN-C655.
Request Mode Image: High Speed Image: High Speed Image: Start recording on connection Image: No Image: DK Image: DK Image: DK	

Settings (Step 3 Setting Using the V.Networks Controller)

3-1 Starting Up V.Networks Controller

The installed "V.Networks Controller" can be used to monitor camera images. In addition, recording/playback operations and setting of frame rate for camera images are also possible.

1. Select [Start] → [Programs] → [V. NETWORKS] → *Y* [V.Networks Controller] to start up the "V.Networks Controller".

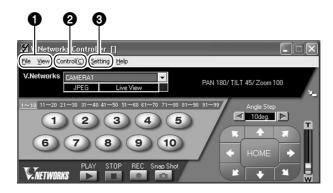


Notes

- Enter the correct password if a password has been set.
- This controller can be connected to VN-C1, VN-C2, VN-C3, VN-C30 (JPEG only), VN-A1, VN-C10 (JPEG and MPEG) and VN-C625 as well VN-C655.

3-2 Features that Allow Setting Using the V.Networks Controller

The V.Networks Controller can be used to perform settings for image size and alarm.



OFile

New : Creates a new file if the camera is connected for the first time.

Delete : Deletes a file.

Motion Detection Standby

- : Select the camera for which the Motion Detection Standby function is to be enabled.
- Exit : Exits the controller.

2View

Image Size : Sets the image display size. JPEG : 640 x 480 320 x 240

Upside Down: Displays the image inversely.

Control (C)

Auto Pan : Select this item and click to start the Auto Pan operation.

Auto Patrol (Mode1 to Mode 3)

- Select a mode for this item and click to start the Auto Patrol operation for the selected mode.
- Auto Trace : Select this item and click to start the Auto Trace operation.

Auto Pan Stop

Stops the Auto Pan operation.

Auto Patrol Stop

: Stops the Auto Patrol operation.

Auto Trace Stop

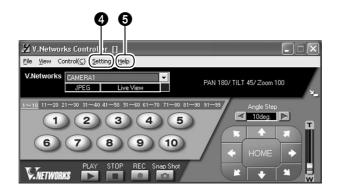
: Stops the Auto Trace operation.

Notes

- The following setting are disabled during Auto Pan:
 - Auto Pan Setting
 - Auto Patrol Setting
 - Auto Trace Setting
 - Preset Position Setting
 - Pan Control
- The following setting are disabled during Auto Patrol:
 - Auto Pan Setting
 - Auto Patrol Setting
 - Auto Trace Setting
 - Preset Position Setting
 - Pan/Tilt Control
 - Zoom Control
- The following setting are disabled during Auto Trace:
 - Auto Pan Setting
 - Auto Patrol Setting
 - Auto Trace Setting
 - Preset Position Setting
 - Pan/Tilt Control
 - Zoom Control
 - Focus Control

Settings (Step 3 Setting Using the V.Networks Controller)

3-2 Features that Allow Setting Using the V.Networks Controller (Continued)



Setting

Quality :	For setting the compression	_
Quality .	rate and image quality. (INST Page 59)	
Frame rate :	For setting the number of camera images to send per second. (I Page 65)	
-	For setting preset positions. (IPS Page 66)	
Alarm Reg :	Alarm operation will be enabled if this item is checked.	
Alarm Setting :	For setting alarm actions for each alarm. (I Page 67)	
Pan/Tilt Setting :	For setting the Pan/Tilt operation (speed, Auto Flip). (I Page 69)	
Auto Pan Setting:	For setting the Auto Pan operation. (I Page 70)	
Auto Patrol Setting:	For setting Auto Patrol operation. (INST Page 72)	
Auto Trace Setting:	For setting the Auto Trace operation. (I Page 74)	
Time Stamp :	For setting the date and time display of a stored file.(ISP Page 76)	
Property :	For changing information of cameras that are not currently connected. (I Page 77)	

Help About

: For checking the version of the V.Networks Controller.

3-3 Motion Detection Standby

The "Motion Detection Standby" function enables automatic connection upon receiving notifications on detected motion from VN-C655 when the V.Networks Controller has been started up.

1. Select [File] and [Motion Detection Standby].



2. Select a camera.

🗶 MotionDetectStandby 🛛 🗙	
V.Networks)(1) Select the camera for which the Motion
CAMERA2	Detection Standby function is to be enabled.
OK Cancel	① ClickОК
3. Click	
V.Networks Controller	
MotionDetection Standby	
OK]	

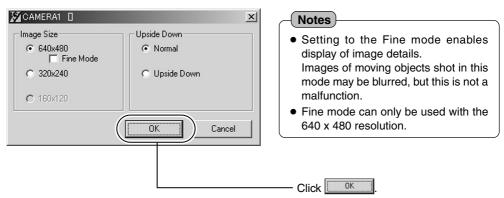
3-4 Image Size and Inversion

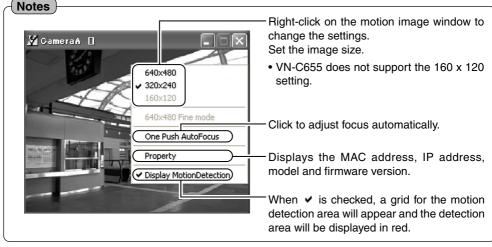
The "V.Networks Controller" can be used to set the size of the motion image window as well as to invert an image.

1. Select [View].



2. Specify [Image Size] and [Upside Down] settings.





3-5 Image Quality Setting

The "V.Networks Controller" can be used to perform image quality settings such as compression level and white balance.

1. Select [Setting] and [Quality].

2. Change the set values. (For description of each function, regimes next page)

M CAMERA1			×		* When the [Distribution control ON] is
Quality Setting				1	selected, the following screen will be
 Distribution 	control OFF	Compression Leve	1		displayed.
C Distribution	control ON	2		\mathbb{H}	Quality Setting C Distribution control OFF BM BM Distribution
WB		Average.Peak	8:2	1	Distribution control DN
	ATW 💌	Shutter	1/60 💌		
R-B		AGC	10dB 💌		
Mg-G		Sense Up	OFF 💌	i –	Image Quality Setting (INP Page 60)
Color Level	0 💌	ExDR Mode	OFF 💌		
Enhance	0 -	ExDR Level	0 💌		
Level Pedestal	0 -	V Sharpness	Normal 💌		
Level	0 💌	BLC	OFF 💌		
Auto Black Control	OFF 💌				- Pasata all activatures on image quality to their
			Default	J	 Resets all set values on image quality to their factory settings.
Lens					lactory settings.
- Iris		Focus			
Auto 💌		Manual 💌	· · · · · · · · · · · · · · · · · · ·		
				Ï	-Lens Setting (🖙 Page 64)
Zoom		ALC Priority			
x2 💌	Tele Wide	Motion	-		
		<u></u>		7	
Quality of Auto Par	and Auto Trace				
Refer	Set		OK		For setting the image quality during Auto Pan
)			and Auto Trace.
					Click to display a confirmation screen
CAMEF	VA1 []		\mathbf{X}		containing the current set values. Perform
Quality	Setting				setting using "Image Quality" on this screen.
White		Average.Peak	12		When setting is complete, click
	ATW	xDR Mode 0	FF		
F			0		
	Gain Gain	BLC 0	FF		
Moo	le Auto				
Lev					
			ose		
		L			

<Auto Pan/Auto Trace Image Quality Setting>

3-5 Image Quality Setting (Continued)

Image Quality Setting

ltem	Function/Set Value	Initial Value
Distribution Control	Set the maximum transmission control.	OFF
OFF	Setting of compression level is possible when this is set to "OFF", and images will be sent out at the specified compression level. The smaller the value, the lower the compression level and hence a higher image quality. However, data volume will also increase. Set Value : 1 to 7	2
ON	Setting of bit rate is possible when this is set to "ON", and the compression level of images will be automatically adjusted according to the specified bit rate before they are sent out. Set value: 32 kbps to 8 Mbps Note • It will be necessary to establish connection again upon setting to enable display at the correct frame rate.	
WB	 Determines the setting of the white balance adjustment feature. White balance can be adjusted for lighting conditions within a color temperature range of 2,300 K to 10,000 K. ATW : Auto-Tracking White Balance mode. Adjusts the white balance automatically according to the color temperature of the lighting. During ATW setting, hue adjustment for the R-gain and B-gain items will be disabled. AWC : If AWC is selected from the pull-down menu, the Auto White Control mode will be activated for white balance adjustment. Switching from the ATW to AWC mode will take at least 15 seconds. 	ATW
R-B	Adjusts the phases of R (Red) and B (Blue) under AWC mode.To enhance blue: Decrease the value.To enhance red: Increase the value.Setting values: 0 to 100	56
Mg-G	Adjusts the phases of M (Magenta) and G (Green) under AWC mode. To enhance green : Decrease the value. To enhance magenta : Increase the value. Setting values : 0 to 100	30
Color Level	Adjusts the color level of video signals. To lighten the color → Decrease the value To darken the color → Increase the value Set value: -5 to 5	0
Enhance Level	Sets the contour enhancement which controls the sharpness of video signals. To soften the picture → Decrease the value To sharpen the picture → Increase the value Set value: -5 to 5	0
Pedestal Level	Sets the pedestal level (black level) of video signals. To darken the picture → Decrease the value To brighten the picture → Increase the value Set value: -5 to 5	0

Item	Function/Set Value	Initial Value
Auto Black Control	 Use this function when darker parts of a picture are unclear even after the gain has been increased using the AGC (Auto Gain Control). ON : When the black level of the video signal is low, the pedestal level is increased automatically in order to improve the clarity of the darker parts. OFF : Turns this function off. 	OFF
Average : Peak	Sets the method of exposure detection according to ratio be- tween the average and peak values. •Large Average value : Use this setting when areas other than those highlighted are dark and unclear. (Example: 10:0) •Large Peak value : Use this setting when halation occurs at the highlighted areas. Use this setting when areas other than those highlighted are dark and unclear. (Example: 5:5) Set value : 10:0, 9:1, 8:2, 7:3, 6:4, 5:5	8:2
Shutter	 Sets the speed of the electronic shutter. Set value: 1/60, 1/100, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/10000 Notes To reduce flickering that occurs under fluorescent lighting, set the shutter speed to 1/100 if your local power supply frequency is 50 Hz, and to 1/60 if it is 60 Hz. The higher the shutter speed, the more prominent will be the smear phenomenon. This is a phenomenon that is characteristic of CCDs, whereby white stripes appear at the top and bottom of a bright light source. 	1/60
AGC	 Sets the maximum gain of the AGC (Auto Gain Control), which electronically increases the gain when the object is under low light conditions. OFF : Disable AGC. 10 dB : Increase gain by a maximum of 10 dB according to the brightness of the object. 20 dB : Increase gain by a maximum of 20 dB according to the brightness of the object. Note The screen may appear grainy at dark places when the gain level is increased. 	10 dB

3-5 Image Quality Setting (Continued)

Image Quality Setting (Continued)

Item	Function/Set Value	Initial Value
Sense Up	 This function is used to increase the sensitivity by extending the exposure time. Increasing this value slows the shutter speed and motion may appear unnatural. When the item "SHUTTER" is set to "1/250" or more, the SENSE UP item does not work. Setting values: OFF, x2, x4, x8, x16, x24, x32 When SENSE UP is activated, the picture may become rough and whitish, and subject to white blemishes. When the setting of the "SENSE UP" function is not OFF, flicker may appear on the screen under fluorescent light or mercury lamps. This is due to the principles of the SENSE UP, and is not a malfunction. There may be cases where flicker can not be reduced even under the following conditions: 1) Shutter speed is set at 1/100 in areas where the commercial electric current frequency is 60 Hz. 2) The shutter speed is set at 1/60 in areas where the commercial electric current frequency is 50 Hz. 	OFF
ExDR Mode	 The ExDR function synthesizes pictures captured at a shutter speed of 1/100 and those captured at higher shutter speeds to help monitor objects having large differences in brightness levels. When the "SHUTTER" function is set to "1/250" or a higher, this function does not work. OFF : Turns the ExDR function off. ON : Turns the ExDR function on. When the ExDR function is on, flicker may appear on the screen under fluorescent light or mercury lamps. This is due to the principles of the ExDR, and is not a malfunction. There may be cases where flicker cannot be reduced even under the following conditions: 1) Shutter speed is set at 1/100 in areas where the commercial electric current frequency is 60 Hz. 2) The shutter speed is set at 1/60 in areas where the commercial electric current frequency is 50 Hz. 	OFF
ExDR Level	This function sets which section of the object is to be displayed in the easiest-to-view brightness level in the ExDR mode.	0

Item	Function/Set Value	Initial Value
ExDR Level (Continued)	 To make a low-light section of the object easy to view: Increase the level. To make a highlighted section of the object easy to view: Decrease the level. Setting values : -5 to 5 When the difference in brightness between objects is large, the picture may not change even when the ExDR LEVEL is varied. This is due to the characteristics of the camera and is not a malfunction. When the item "SHUTTER" is set to 1/250 or higher, the settings to the item "ExDR LEVEL" cannot be carried out. When the item "ExDR MODE" is set to OFF, the settings for the item "ExDR LEVEL" cannot be carried out. 	0
V.Sharpness	This function sets sharpness in the vertical direction of the image. NORMAL : Normal sharpness. HIGH : High sharpness. The following phenomena may be observed when HIGH is selected. This is not a malfunction. * Horizontal stripes are observed on bright objects. * Vague horizontal stripes are observed under low light conditions.	NORMAL
BLC	Sets of area of back light compensation. Use this function when the object appears dark (under auto iris control) because of the presence of a bright light source behind it. This function make it possible to place the unnecessary light source outside the photometry area. OFF : The backlight compensation function does not work. ARER 1 to AREA 4 : Select one of the four types. Photometry Area Photometry Area Photometry Area Photometry Area OFF Area 1 Area 2 Area 3 Area 4 When the item "ExDR MODE" is set to ON, the item "BLC" is set to OFF. Under this condition, the settings to the item "BLC" is	OFF

3-5 Image Quality Setting (Continued)

Lens

Item	Function/Set Value	Initial Value
Iris	 Adjust the brightness of lens. A smaller value makes images darker, closing the iris. Auto : Adjusts iris automatically. Auto + : Adjusts iris automatically to a level brighter than the default state. Auto - : Adjusts iris automatically to a level darker than the default state. Manual : Adjusts iris manually. 	Auto
Focus	 Adjust focus. Move the slider to the left to focus far object while moving the slider to the right to focus near object. Easy AF : Focus will be adjusted automatically when Pan/Tilt and Zoom are operated on the camera. Manual : Adjusts the focus manually. 	Easy AF
Zoom	 Perform Zoom operation. The object enlarges when zoomed towards the Wide end, and reduces when zoomed towards the Tele end. When the zoom lens is set toward TELE, optical zooming is activated first and electronic zooming second. This function sets the maximum zoom ratio of the electronic zooming. Setting values : x1, x2, x4, x6, x8, x10. Note Note Picture quality deteriorates under electronic zooming as it is accompanied by digital image processing. An increase in the electronic zooming ratio may deviate the center of the image slightly toward the top left. This is due to the camera properties and is not a malfunction. Continuous operation from optical zooming to electronic zooming is not available. When optical zooming reaches the TELE end, press the TELE button again. During digital zoom, the PAN/TILT Position Indicator (rere Page 73) lights up in yellow color. 	
ALC Priority	 When an object is dark, this functions sets whether priority during monitoring is placed on maintaining the motion of the camera or on picture quality. Motion : Motion of the camera is given priority. When an object is dark, the AGC function is prioritized. This setting is suitable when objects are characterized by quick motion. Picture : Picture quality is given priority. When an object is dark, the SENSE Up function is prioritized. This setting is suitable when picture quality is important. When the "AGC " and "SENSE UP" functions are both set to "OFF", this function does not work . 	Motion

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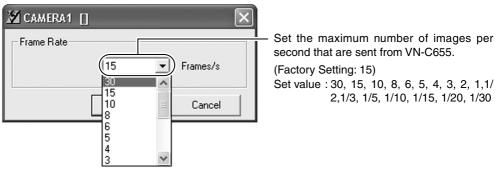
3-6 Frame Rate

The "V.Networks Controller" can be used to set a maximum value for the frame rate, which indicates the number of live image updates per second.

1. Select [Setting] and [Frame rate].



2. Set the [Frame Rate].



Notes

The actual number of frames received and displayed per second is dependent on factors such as PC performance, compression level of images and the LAN environment.

In the case of a LAN environment where multiple operations are being performed at one time (particularly when the network traffic is heavy), reduce the number of frames to be transmitted.

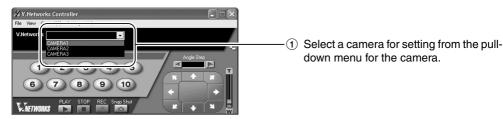
Cautions

Frame rate for local recording cannot be set using this function. To set the frame rate for local recording, make use of the "VN-C655U Setup Tool" (I Page 40).

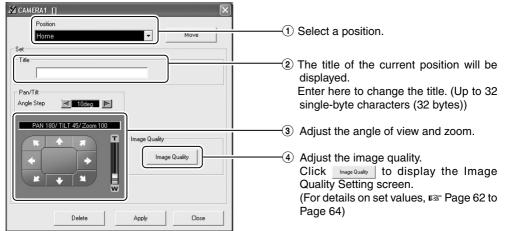
3-7 Preset Position Setting

The "V.Networks Controller" can be used to set the preset position for the connected camera.

1. Select a camera.



2. Select [Setting] and [Position Memory].





<Image Quality Setting Screen>

3. When setting is complete, click ______ followed by _____

3-8 Alarm Setting

The "V.Networks Controller" can be used to set the action to be taken when an alarm signal is received.

1. Select [Setting] and [Alarm Setting].



2. Change the set values. (For description of each function, INT next page)

Setting may be performed for the [Motion Detection], [Alarm 1], [Alarm 2], [Relay Alarm], [Preset Position] and [Black & White].

🔏 Alarm 🛛 🗙	
Relay Alarm Preset Position Black & White MotionDetect Alarm1 Alarm2	
Message	0
Message	
	-0
Playing wave file	<mark> 3</mark>
Execute application file	
Browse	

(Setting of **1** and **2** are disabled when in the Relay Alarm mode.)

3. When setting is complete, click

Settings (Step 3 Setting Using the V.Networks Controller)

	3-8 Alarm Setting (Continued)	
O	Message Message entered in the textbox will be displayed when there is an alarm input. (Up to 100 single-byte characters)	Playing wave file Plays back a designated Wave file when there is an alarm input. Click the [Browse] button to specify a file.
2	 Recording Starts recording when there is an alarm input. Non-stop : Recording continues until the Stop button is pressed. 1 minute : Recording stops after 1 minute. 	Note Alarm actions may be delayed due to PC performance if a large Wave file (.wav) is selected.
	 Notes The [1 minute] mode is used for conserving hard disk space. 	Execute application file Executes a designated program when there is an alarm input. Click the [Browse] button to specify a program.

• In this mode, recording stops after 1 minute even if recording has already started before the alarm input.

Notes

Alarm Operation

The following settings are required for the operation of the set alarm.

- 1. [Alarm Reg] is checked. This item is located under the [Setting] menu of the "V. Networks Controller". (IS Page 56)
- 2. All alarm settings in the [Alarm Setting] of the "VN-C655U Setup Tool" are enabled. (ISP Page 34)

Relay Alarm

When the Relay Alarm function is enabled, subsequent alarms will not be activated.

3-9 Pan/Tilt Setting

The "V.Networks Controller" can be used to perform pan/tilt settings.

1. Select [Setting] and [Pan/Tilt Setting].



2. Perform Pan/Tilt settings.

🗶 CAMERA1	[]	×	
Pan/Tilt Speed)		
Variable			
	Speed 8	-	
Auto Flip			
	OFF	•	
<u>ОК</u>		Cancel	

Pan/Tilt Speed

Sets the speed of movement when Angle Step is set to "0".

Variable:

Alters the pan/tilt speed automatically according to the zoom of the lens.

The speed lowers when the zoom position is set to the Tele-end, and increases when set to the Wide-end.

Speed 1 to Speed 8:

Sets the Pan/Tilt speed. The larger the value, the higher will be the pan/tilt speed.

Auto Flip

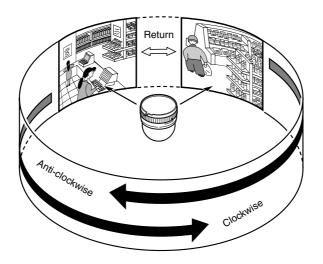
Inverts images on the screen according to the camera angle. Set this function when shooting an object that passes beneath the camera.

- **OFF** : Auto Flip is disabled.
- **ON** : The image rotates 180° horizontally and stops when the object comes directly beneath the camera.



3-10 Auto Pan Setting

The "V.Networks Controller" can be used to set the Auto Pan operation, which moves the camera from a preset position horizontally at a constant speed.

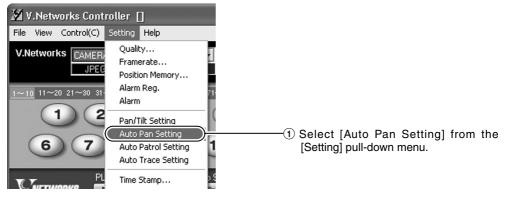


1. Select a camera.

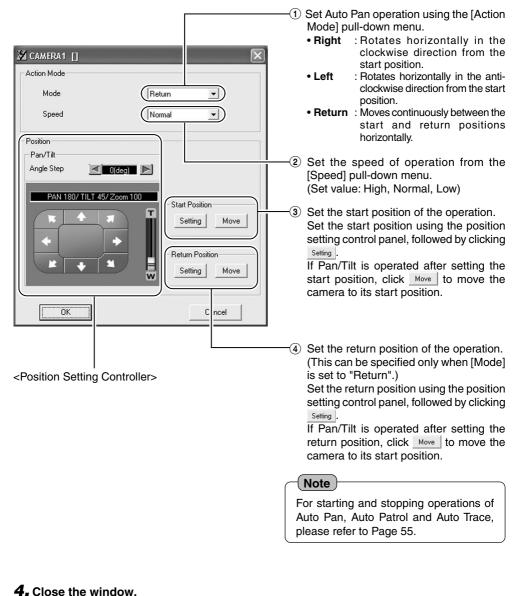


① Select the camera for setting from the pull-down menu for the camera.

2. Select [Setting] and [Auto Pan Setting].



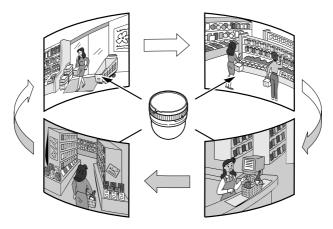
3. Perform setting.



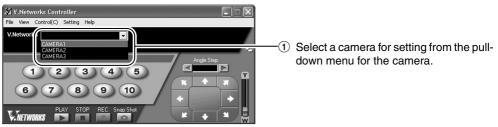
When setting is complete, click to close the window.

3-11 Auto Patrol Setting

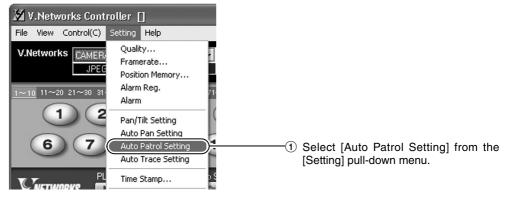
The camera can be moved to multiple positions based on the preset sequence and time. Use this setting to view specified positions in sequence. Perform setting for each camera.



1. Select a camera.



2. Select [Setting] and [Auto Patrol Setting].



3. Perform setting.

J. Ferlorin setting.	
🛛 CAMERA1 []	
Setting	
(Mode1 Mode2 Mode3)	
No. Position No. Time 1 Home ▼ 10 2 1 10 3 2 10 4 3 10 5 4 10 6 5 10 7 6 10 9 8 10 10 9 10 11 10 10 12 11 10 13 12 10 14 13 10 15 14 10 16 15 10 17 16 10	from Modes 1 to 3. Click the tab of the respective mode for setting.
	 ② Set the Position Number. For each Patrol Number, set a Position Number to move to in sequence.
Auto Patrol No. Auto Patrol operates in the sequence of these numbers.	③ Set the time interval. Set the time for displaying each position set in ②. (Unit: seconds) e
4. Close the window. When setting is complete, click	o close the window.
	Note For starting and stopping operations of Auto Pan, Auto Patrol and Auto Trace, please refer to Page 55.

3-12 Auto Trace Setting

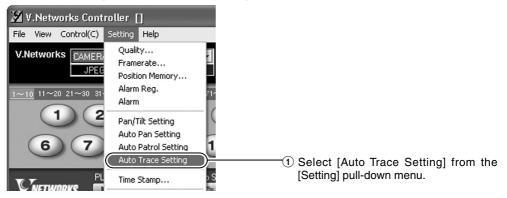
Details of manual camera operations can be stored and reproduced.

1. Select a camera.

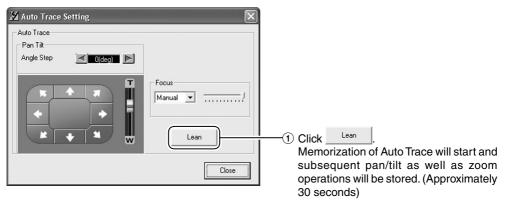


(1) Select a camera for setting from the pulldown menu for the camera.

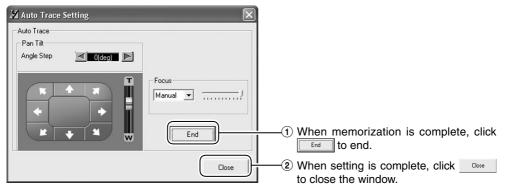
2. Select [Setting] and [Auto Trace Setting].



3. Start to memorize operation.



4. Close the window.



Caution

• There is a limit to the length of recording time.

Recording can be performed up to 30 seconds. However, this may shorten depending on its frequency of use. Be sure to perform operation check upon setting.

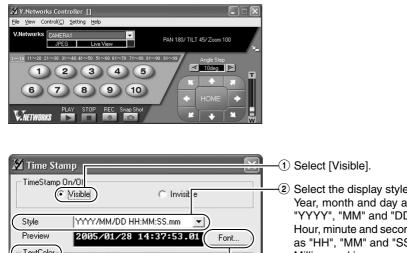
Note

For starting and stopping operations of Auto Pan, Auto Patrol and Auto Trace, please refer to Page 55.

3-13 Time Stamp

The "V.Networks Controller" can be used to set the time stamp that displays date/ time on camera images. The displayed time/date will be recorded.

1. Select [Setting] and [Time Stamp].



Markan Time Stamp	(1) Select [Visible].
TimeStamp On/Ol Misible Invisit Style YYYY/MM/DD HH:MM:SS.mm Preview 2005/01/28 14:37:53.01 Font TextColor Identify Light Dark Bilue Identify	 Select the display style in [Style]. Year, month and day are represented as "YYYY", "MM" and "DD" respectively. Hour, minute and second are represented as "HH", "MM" and "SS". Millisecond is represented as "mm". Select the display [Font]. Set the [Text Color].
BackColor Transparency Light Dark R I Green I Blue I The timestamp font, text color OK Color Cancel JPEG Mode. I	(5) Set the background color.
	6 Click 0K

Note

• Left-click on the motion image or playback window while holding down the [Shift] key at the same time. The time stamp will appear where the mouse was clicked.

3-14 Changing Registered Information

The "V.networks Controller" can be used to change information such as the preset connection method for a camera.

1. Select [Setting] and [Property].



2. Perform setting.

🛛 V.Networks Property 🛛 🔀	
V.Networks Name CAMERA1 V.Networks Property IP Address IP Address 192.168.0.2 V.Networks ID In a state of the st	 ① Change the camera. Cannot be changed.
Save in: C:\Documents and Settings\All Users\Documents\V.Network Browse Request Mode Thigh Speed C Normal	 Recorded files will be stored in the folder specified here. Select the mode for image acquisition. *For details, refer to Page 52.
Start recording on connection Image: No image: No image: Start recording on connection Image: OK image: OK image: Cancel	Get whether to [ON].

3. When alteration is complete, click

Caution)

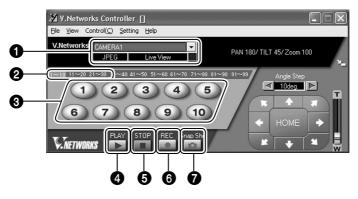
Information cannot be changed for a camera that is currently connected.

Operations (Step 4 Operation Using the V.Networks Controller)

4-1 Features that Allow Operation Using the V.Networks Controller

The "V.Networks Controller" can be used to select a camera as well as record/play back camera images.

(The controller screen is identical to other V.Networks versions, and there are functions that cannot be operated from VN-C655)



CAMERA

Displays the name of the connected camera. You can also select the connected camera using 🔪 (pull-down menu).

Position tabs [1-10], [11-20], [21-30], [31-40], [41-50], [51-60], [61-70], [71-80], [81-90], and [91-99]

For assigning the buttons for position moving (see ③).

3 Buttons for position moving

For selecting a position. Assign buttons using the position tabs in \mathbf{Q} .

PLAY

For selecting and playing back video files saved in **③**. Use also this button to make a selection when playing back files recorded during an alarm.

STOP

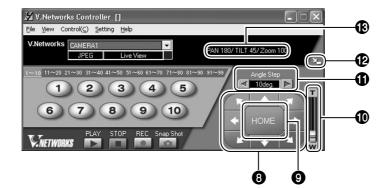
Stops recording.

6 REC

Starts recording when this is selected. Recorded files are saved under the name as shown in **①**. During recording, a [Recording] and [REC] indicator will appear in **①** and on the displayed image respectively.

Snap Shot

For registering and saving only 1 frame of the displayed image.



8 Pan/Tilt button

For adjusting the Pan/Tilt position. Use Angle Step to set the operating angle for every single operation of the Pan/Tilt button. Set the Pan/Tilt operating speed using the [Pan/Tilt Setting] item under [Setting]. (INF Page 69)

9 HOME

For moving the camera to the home position.

D Zoom button and Zoom bar

For adjusting the zoom position.

Angle Step

Sets the degree of angle to move per click when operating using the Pan/Tilt button in **3**. Pan/Tilt will operate continuously when this is set to 0 degrees.

Bize

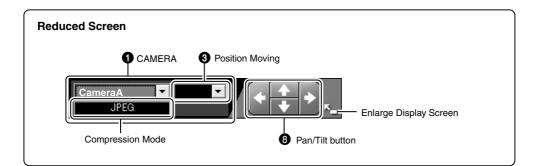
For reducing the display size of the [V.Networks Controller] screen. (See diagram below)

Pan/Tilt/Zoom Position Indicator

Displays the current Pan/Tilt and Zoom positions.

(Note

For starting and stopping operations of Auto Pan, Auto Patrol and Auto Trace, please refer to Page 55.

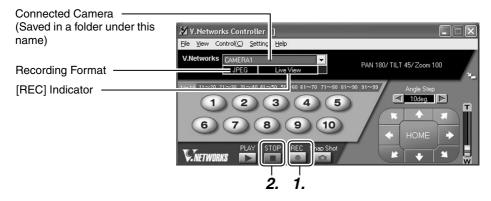


Operations (Step 4 Operation Using the V.Networks Controller)

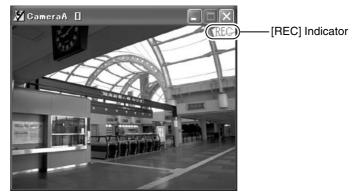
4-2 Record/Stop

The "V.Networks Controller" can be used to save camera images to a file.

1. Click the [REC] button.



(Motion Image Window)



2. Click the [Stop] button.

Stops recording and the [Recording] and [REC] indicators will disappear. (Click the [Snap Shot] button to record only 1 frame of the displayed image. (I Page 84)

Notes

- Avoid recording continuously for an extended period of time. Attempt to play back files recorded over an extended time may cause playback failure on some PCs due to insufficient memory.
- Do not change the name of the record file. Doing so may cause playback to fail.

4-3 Playback

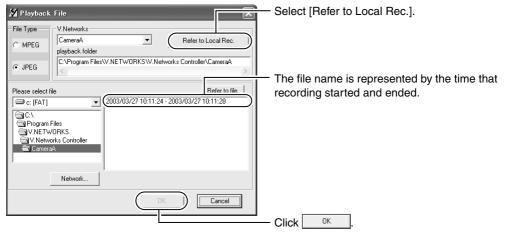
Files saved upon "REC" using the "V.Networks Controller" can be selected and played back.

(Playback of a file and display of motion images cannot be performed at the same time.)

1. Click the [PLAY] button.



2. Select the file to play back on the [Playback File] screen, followed by clicking To play back local recording files, click [Refer to Local Rec.] to select a file.

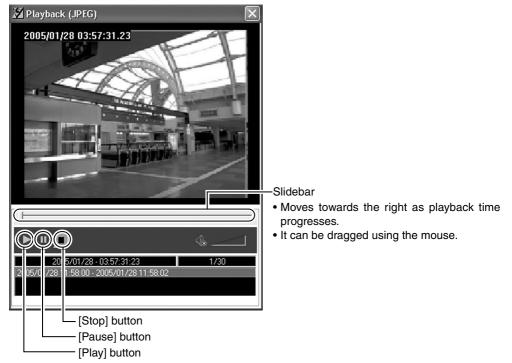


Operations (Step 4 Operation Using the V.Networks Controller)

4-3 Playback (Continued)



4. The [Playback] screen is displayed.



4-4 Cautions on Record/Play Functions

Record/Playback Time

• Do not record or play back a file that exceeds 2 GB using the "V.Networks Controller". Random access to data beyond 2 GB is not possible with standard Windows applications.

Reference: Approximate recording time for 2 GB data (At frame rate of 5 fps)

Image Size	Data Size Per Image	Approximate Recording Time
320 x 240	Approx. 15 KB	6 hours
640 x 480	Approx. 50 KB	2 hours

4-5 Snapshot

The "V.Networks Controller" can be used to save video images currently displayed or playback images as still image files.

1. Click the [Snap Shot] button.



[Snap Shot] button

IX

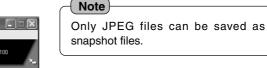
2. The [Snap] screen will be displayed.

🎽 Snap1 14:40:2...

File(F)

Save(S)

Exit(X)



(1) Select [File] and [Save].

3. The [Save As] screen is displayed. Save As \mathbb{R} - • • • Save in V.Networks Controll -) Localize Ò (1) Specify a folder for saving the file. My Recent Documents G Desktop My Documents P (2) Enter a File name. My Compute -•(3) Click save the snapshot. File name: • $(\top$ <u>S</u>ave My Network Places Save as type: JPEG(*.jpg) -Cancel

Note

Other Viewer Software

 Still image files that are saved using VN-C655 can also be displayed on other conventional viewer software. However, inverted images will not be reversed. In addition, the color reproduced may also differ.

Operations (Step 5 Operating Using a Web Browser)

In addition to the controller software supplied, web browsers can also be used to view still/motion images as well as to perform various settings.

5-1 Operating Environment

The following environment will be required to view/operate VN-C655 using a web browser.

The PC in use shall also meet requirements on the operation environment stated in this manual (I Page 9).

PCs installed with the following web browsers

- Internet Explorer 4.x, 5.x or 6.x.
- For CPU performance, required memory space and other values, please refer to the recommended values by the respective web browser in use.

In order to enable smooth display of motion images on a large screen, it will be necessary to ensure adequate allowance as compared with the recommended values by web browsers. In addition, images of the installed camera cannot be properly displayed using 256 color modes.

Caution

Operation using the web browser requires an environment that enables proper running of Java. Please refer to our web site for details.

http://www.jvc-victor.co.jp/english/pro/vnetworks/index-e.html

LAN Environment

- VN-C655 functions as a web server that makes use of a HTTP protocol. Access linking by host name will be possible as long as the environment allows use of a DNS (Domain Name System).
- It is possible to establish a 1-to-1 connection between the PC and VN-C655 using a cross cable. (Although rare, the use of cross cables may not be possible with some LAN boards. Be sure to check before using.)

Notes

Web Page Images

Web page screens in this manual are web page data inside VN-C655 (including images shot using the installed camera) which are displayed using the web page browsing/display function of the browser.

As such, the format of web pages and fonts displayed may vary according to the type of browser and settings.

In the event that items on the screen are not fully displayed, hence causing problems during use, display all items such as by resizing the window.

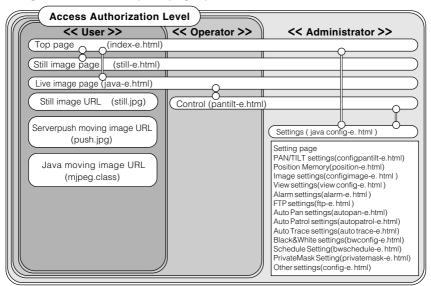
Description in this manual is based on the web page browsing/display screen of Internet Explorer.

Password

Upon changing a password, the password confirmation screen may appear, which requires you to enter the new password twice. When this screen appears, enter the same password twice.

5-2 Access Authorization Level

The configuration of URLs (web pages) in VN-C655 is illustrated as follows.



Front Page: http://*****/index-e.html ("*****" represents the URL of VN-C655) This page provides links to the various web pages of VN-C655.

Authentication of Access Authorization

When there are authenticated passwords, a message requesting entry of user name and password (acess authorization authentication) will appear.

Connect to 192.168.0.2	
R	
index-e.html	-① User name is not used.
Remember my password	—② Enter a password among the 3 different levels that have been set.
OK Cancel	—③ Click <u>oк</u> .

Notes

It is recommended that you register a URL (Uniform Resource Locator).

To speed up display of VN-C655 web pages using your web browser, register the URL information during the access test using the set IP addres or DNS host name.

This is represented by [Favorites] in Internet Explorer. To register, use the [Add to Favorites] item in the operation menu of the web browser when a VN-C655 web page is displayed.

5-3 Starting Up the Web Browser

Specify the default web page address of VN-C655 as the page to view using the web browser. (Upon entering the factory setting of the IP address, the web browser will display the front page of VN-C655.)

Note

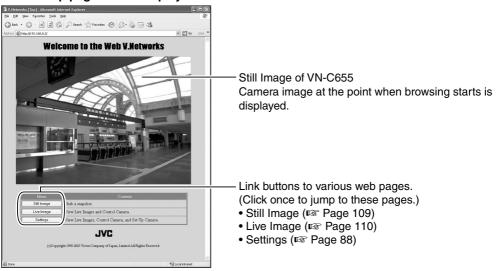
You may not be able to specify the IP address directly if a proxy server is set for accessing the Internet. In this case, change the proxy settings to enable direct specification.

1. Start up the web browser.

🗳 about:Blank - Microsoft Internet Explorer.	
Bin Edit Yew Farontes Look 1940	
Cas - D - R C A Pour ground O B - 3 - 3	
Al (Bater Ser	
Al (g) shot:Sark	"http://192.168.0.2/index-e.html"
W Add. D Organize	
Charles	
MSA con	
a) Rado Saten Gulde	
Core Startet	
all over	
- Notes	

The terms "Top Page" and "Home Page" are defined as follows in this manual. **Top Page** : Refers to /index-e.html **Home Page** : • Refers to the specified html page when the default page feature is enabled. • /index-e.html will be used when the default page is disabled.

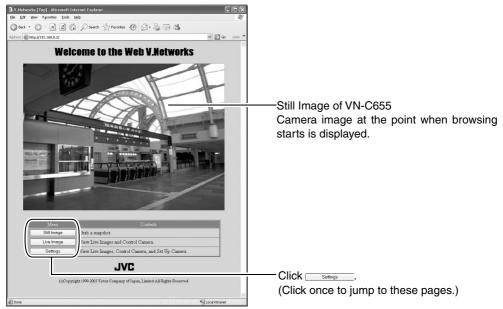
2. The Top page will be displayed.



5-4 Setting Using the Web Browser

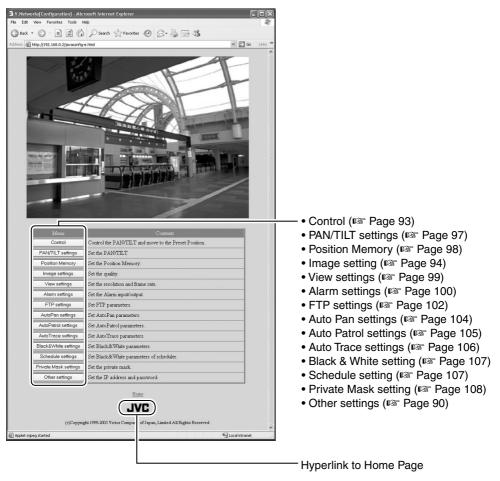
Web browsers can be used to set the IP address, image quality or FTP.

1. Display the Top page.



Top Page

2. The [Settings] page will be displayed.



Web browsers do not support the function to invert images.

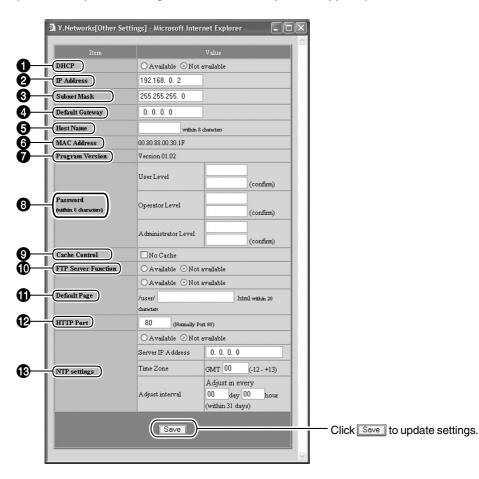
Note

5-4 Setting Using the Web Browser (1. Other Settings)

Other settings:

http://*****/config-e.html ("******" represents the URL of VN-C655)

Setup can be performed by specifying details for items in [Other Settings]. (This is also possible using the "VN-C655U Setup Tool" supplied.)



Description of Items in [Other Settings]

Meaning			
Select [Available] when DHCP is used.			
Change the IP address to the one assigned or approved by the network administrator. (*This can only be altered when DHCP is not used.)			
As with IP address, set subnet mask to a value as instructed or approved by the network administrator. (*This can only be altered when DHCP is not used.)			
Specify the IP address for the default gateway. Specify as 0.0.0.0 if this is not used. (*This can only be altered when DHCP is not used.)			
Specify up to 8 single-byte alphanumeric characters. Specify when access linking is performed using a host name in an environment that enables use of a DNS (Domain Name System). This is also displayed in the title bar of each subwindow. Do not enter if this is not used or unknown.			
This is a physical address unique to the product. Alteration is not possible.			
This is the firmware version of the VN-C655 camera. Alteration is not possible.			
Enter password for VN-C655 up to 8 single-byte alphanumeric characters.			
Enter the User level password.			
Enter the Operator level password.			
Enter the Administrator level password.			
There may exist a small number of proxy servers that cache cgi. In this case, check "Disable cache".			
Specify whether the FTP server function is enabled or disabled. When this function is enabled, uploading of various user html pages or GIF/JPEG images to VN-C655 will be possible using conventional FTP client software. * All uploaded files will be placed under the /user folder. Access from the web browser is possible by entering <u>http:// 192.168.0.2/user/aaa.html</u> . (When referring to aaa.html that is stored in the FTP. 192.168.0.2 is the IP address of VN-C655.) * The FTP user name is fixed as " <u>Administrator</u> ". Use the <u>Administrator Level Password</u> as the FTP password.			
Usually, the top page of VN-C655 is specified. When this function is availabled, the specified html file will be used as the default page. * Default page refers to the page that is displayed when only the IP address is specified. Displaying Still Images that are Uploaded to the /user Folder Still images in the /user folder can be displayed by creating a web page containing the following: < IMG SRC = "/ user/xxxxx "> (xxxxx refers to the file name of the still image) Note Even when this feature is enabled, an error message indicating "404: Not Found" will be displayed when http://192.168.0.2 is entered if the html file specified here does not exist. Be sure to enter correctly.			

5-4 Setting Using the Web Browser (1. Other Settings) (Continued)

Description of Items in [Other Settings]

	Item	Meaning		
Default Page (Continued)				
	Available/Not Available	Set to "Available" when using the default page function and to "Not Available" when not in use.		
	File Name	Enter the html file name that is to be used as the default page.		
œ	PHTTP Port To enhance the security level, set the HTTP server port number C655 to a value other than the default value of 80. (Specify within the range of 1 to 65535, except for 21 and 554.) Upon the HTTP port number, access the page via the web browser b http://192.168.0.2:12345/ or http://192.168.0.2:12345/ in (When the port number is changed to 12345.) If you have lo the HTTP port number, check using the setup tool supplied.			
NTP Settings		This is used to perform setting for the NTP (Network Time Protocol) server.		
Available/Not Available Set to "Available" when using the NTP function and t when not in use.		Set to "Available" when using the NTP function and to "Not Available" when not in use.		
	Server IP Address	Enter the IP address of the NTP server.		
	Time Zone	The local time will be derived from the Greenwich Time.		
	Adjust interval	An accurate time will be acquired from the NTP server according to the specified interval to adjust the time to a correct value.		

Note

Password Protection

VN-C655 is equipped with an access protection feature using a password to restrict browsers (users) that are connected. The access protection function is divided into 3 levels according to the authorization levels. Pages that can be accessed (browsed) for each authorization level are as follows. (Refer to Page 86 for the configuration of web pages in VN-C655.)

Authorization Level	Allowed Access
User Level	Still or motion image pages only
Operator Level	Web pages except the Settings page
Administrator Level	All web pages

Cautions

- Unless a correct Administrator level password is entered, password settings cannot be undone or changed. Please make sure that you do not forget the password.
- If passwords are only set for the User and Operator levels and not for the Administrator level, password entry will not be requested.

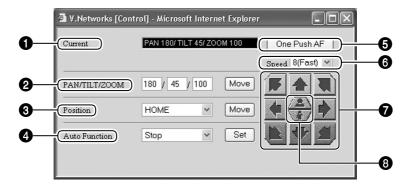
When the IP address, subnet mask, host name or HTTP port settings are changed, a confirmation screen indicating "Are you sure to reset to enable the changes?" will appear. Upon clicking [OK] on this confirmation screen, VN-C655 will be reset internally and settings such as the IP address will be changed. The IP address before change (factory setting) will be disabled and connection to VN-C655 will be cut off upon the reset operation.

When the web browser is left unoperated for some time, a message will appear indicating that connection cannot be established. This is due to the change in the IP address. (The same message will also appear when the port number is changed.)

5-4 Setting Using the Web Browser (2. Control)

Control window:

http://*****/pantilt-e.html ("*****" represents the URL of VN-C655)



Current Position

Displays the current Pan/Tilt and Zoom positions.

2 PAN/TILT/ZOOM

For moving the camera to the specified position upon pressing the [Move] button.

O Position

For moving the camera to the selected position upon selecting a position number from the pulldown menu and pressing the [Move] button.

4 Auto Function

For starting the Auto Pan, Auto Patrol and Auto Trace operations.

A mode selection item will appear at the top of the controller only when "Auto Patrol" is selected. (I Page 105)

One Push AF

Click to adjust focus automatically.

6 Speed

For setting the speed of the Pan/Tilt operation. Set value : 1 (Low), 2, 3, 4, 5, 6, 7, 8 (Fast)

Pan/Tilt Buttons

For manual Pan/Tilt operation. Manual operation is possible only when you are clicking one of these buttons.

8 Zoom Buttons

For adjusting the Zoom position. Zoom is possible only when you are clicking these buttons.

5-4 Setting Using the Web Browser (3.Image Setting)

Image Setting window:

http://*****/configimage-e.html ("*****" represents the URL of VN-C655)

🗿 V.Netwo	orks[Image Settings]	- Microsoft Internet Explorer
		∀alue -You can apply and save common items. -*** items are available to default setup.
Zoom		Electoronic Zoom Max ×2 💌
Focus		○Easy Auto Focus ⊙ Manual
Color Lev	/el *	0 🗸
Enhance	Level *	0 •
V.Sharpr	uess *	⊙ Normal ○ High
Pedestal	Level *	0 🗸
Auto Bla	ck Control *	○ ON ⊙ OFF
AGC *		10dB 🗸
Sense Up	*)	OFF V
ALC Pric	ority	⊙ Motion ○ Picture
Shutter		1/60 🗸
		Value
Ea	ch Position Item	-You can apply each position items temporarily. -Please save these items at Position settings. -*** items ar available to default setup.
		100 (0-100)
(Manual F	ocus Level	One Push AF
		⊙ Auto
(r	O Manual 050 (0-100)
IrisMode	J	O Auto+
		O Auto-
		⊙ ATW
White Ba	lance *	OAWC R-B Gain 37 (0-100)
		A djustment takes construction (construction) about 15 seconds, Mg-G Gain 25 (0-100)
Average:	Peak *	8:2 🗸
ExDR Mo	=	O ON ⊙ OFF
ExDR Lev	/el *	0 ~
BLC *)	OFF V
	Default	Apply Save
	C Default to res	
	eir factory set	tings (default
valu	es).	
		Click Save to apply settings and to save the set va
		Click Save to apply settings and to save the set

Click Apply to apply settings without saving the set values. These settings will be cleared upon turning off the power of VN-C655, and the previous settings will be restored.

Zoom

This function sets maximum zoom ratio of the electronic zooming.

(Set value: x1, x2, x4, x6, x8, x10)

Ø Focus

For selecting the mode of focus. **Easy Auto Focus** : Focus will be adjusted automatically upon performing Pan/Tilt or Zoom operations on the camera.

Manual : Adjust focus manually.

Color Level

Adjusts the color level of video signals. (Set value: -5 to 5)

Enhance Level

Sets the contour enhancement which controls the sharpness on the monitor screen. (Set value: -5 to 5)

V. sharpness

This function sets sharpness in the vertical direction of the image. (Set value: Normal, High)

O Pedestal Level

Sets the pedestal level (black level) of video signals.

(Set value: -5 to 5)

Auto Black Control

Use this function when darker parts of a picture are unclear even after the gain has been increased using the AGC (Auto Gain Control). (Set value: ON, OFF)

B AGC:

Sets the maximum gain of the AGC (Auto Gain Control), which electronically increases the gain when the object is under low light conditions.

(Set value: OFF, 10 dB, 20 dB)

Sense Up

This function is used to increase the sensitivity by extending the exposure time. Increasing this value slows the shutter speed and motion may appear unnatural.

(Set value: OFF, x2, x4, x8, x16, x24, x32)

ALC Priority

When an object is dark, this function sets whether priority during monitoring is placed on maintaining the motion of the camera or on picture quality. (Set value: Motion Picture)

(Set value: Motion, Picture)

Shutter

Sets the speed of the shutter. (Set value : 1/60, 1/100, 1/250, 1/500, 1/ 1000, 1/2000, 1/4000, 1/10000)

Manual Focus Level

For adjusting focus when [Focus] in ① is set to "Manual". Focus will be set on a nearer object when the value decreases, and on a distant object when the value increases. (Set Value: 0 to 100)

Click the [One-push AF] button to enable automatic focus.

Iris Mode

For performing setting related to lens iris adjustment.

- Auto : Adjusts iris automatically to the default state.
- Manual : Adjust iris manually.
- Auto+ : Adjusts iris automatically to a level brighter than the default state.
- Auto- : Adjusts iris automatically to a level darker than the default state.

White Balance

For setting the white balance, which provides a color standard.

- **ATW** : Adjusts the white balance automatically according to the color temperature of the lighting.
- **AWC** : Adjusts the white balance automatically.
 - **R-B** : Adjusts the phases of R (Red) and B (Blue) under AWC mode.
- Mg-G : Adjusts the phases of M (Magenta) and G (Green) under AWC mode.

Average:Peak

Sets the method of exposure detection according to ratio between the average and peak values.

(Set value: 10:0, 9:1, 8:2, 7:3, 6:4, 5:5)

5-4 Setting Using the Web Browser (3.Image Setting) (Continued)

ExDR Mode

The ExDR function synthesizes pictures captured at a shutter speed of 1/100 and those captured at higher shutter speeds to help monitor objects having large differences in brightness levels.

(Set value: ON, OFF)

ExDR Level

This function sets which section of the object is to be displayed in the easiest-to-view brighness level in the ExDR mode. (Set value: -5 to 5)

BLC

Sets the backlight compensation function. Use this setting when an object appears dark using the Auto Iris function due to the presence of a bright light source behind the object. This function makes it possible to place an unnecessary light source outside the photometry area.

(Set value: OFF, Area 1 to Area 4)

Note

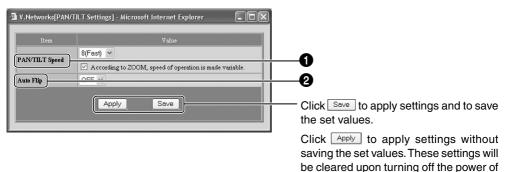
For details on settings and set values, refer to "Image Quality Setting" (128 Page 60 to 64).

5-4 Setting Using the Web Browser (4. PAN/TILT Setting)

PAN/TILT Setting window:

http://*****/configpantilt-e.html ("*****" represents the URL of VN-C655)

This section describes procedures to perform various PAN/TILT settings.



PAN/TILT Speed

For performing settings related to the speed of Pan/Tilt operation.

1(Low), 2 to 7, 8(Fast):

For selecting the speed of Pan/Tilt operation. The larger the value, the higher will be the Pan/Tilt speed.

According to ZOOM, speed of operation is made variable.:

Alters the pan/tilt speed automatically according to the zoom of the lens.

The speed lowers when the zoom position is set to the Tele-end, and increases when set to the Wide-end.

Auto Flip

ON

Inverts images on the screen according to the camera angle. Set this function when shooting an object that passes beneath the camera.

VN-C655, and the previous settings will

OFF : Auto Flip is disabled.

be restored.

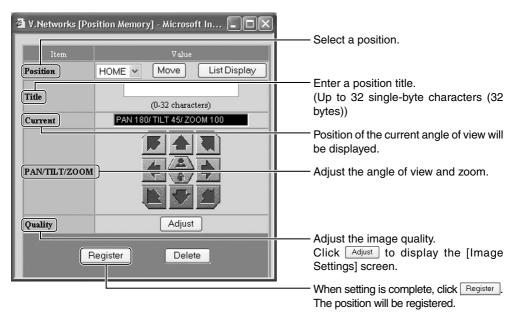
: The image rotates 180° horizontally and stops when the object comes directly beneath the camera.

5-4 Setting Using the Web Browser (5. Position Memory Setting)

Position Memory Setting window:

http://*****/position-e.html ("*****" represents the URL of VN-C655)

This section describes procedures for setting preset positions of the connected camera.



Manual Focus Level	100 (0-100)				
Manual Focus Level	One Push AF	One Push AF			
	() Auto				
IrisMade	O Manual 050 (0 - 100)				
IrisMode	O Auto+	uto+			
	O Auto-				
	⊙ATW				
White Balance	OAWC	R-B Gain	37	(0-100)	
	Adjustment takes about 15 seconds.	Mg-G Gain	25	(0-100)	
Average:Peak	8:2 ¥				
ExDR Mode	O ON ⊙ OFF				
ExDRLevel	0 💌				
BLC	OFF V				

<Image Settings Screen>

5-4 Setting Using the Web Browser (6. View Setting)

View Setting window:

http://******/viewconfig-e.html ("******" represents the URL of VN-C655)

🗿 V.Networks[Vi	ew Settings] - Microsoft Intern 🔳 🗆 🗙	
Item	Value	
	640 × 480 🕶	
Resolution	Fine Mode (available only when 640x480 is selected)	
Frame Rate	8 🕶 fps	
Distribution Control	OFF Compression Rate 2 ♥ ON Bit rate 8M ♥ bps	
(Apply Save	Click Save to apply settings and to save the set values.
		Click Apply to apply settings without saving the set values. These settings will be cleared upon turning off the

Item		Meaning	Initial Value
Re	solution	Select either 640 x 480 or 320 x 240 for the image size. *Setting to the Fine mode enables display of image details. Images of moving objects captured in this mode may be blurred, but this is not a malfunction.	640 x 480
Frame Rate		For setting the maximum number of frames per second when send- ing out images from VN-C655. Set value : 30, 15, 10, 8, 6, 5, 4, 3, 2, 1, 1/2, 1/3, 1/5, 1/10, 1/15, 1/20, 1/30	15
Distribution Control		For performing settings related to distribution of images.	OFF
OFF		Distributes an image at a fixed compression level. (Set value: 1 to 7) The smaller the value, the higher will be the image quality.	2
	ON	Adjusts the compression level automatically to enable distribution of images at the specified bit rate. (Set value: 32 kbps to 8 Mbps)	_

Cautions

- The actual number of frames transmitted and displayed per second are affected by the PC performance, web browser type as well as the LAN environment. When there is a possibility of communication failure with other user operations (particularly in an environment where network traffic is relatively heavy), set [Frame Rate] to a small value.
- Ensure to set [Frame Rate] according to the number of simultaneous access to VN-C655. Display of web pages and move/button operations may not function properly if the processing capacity of the camera is exceeded.

power of VN-C655, and the previous

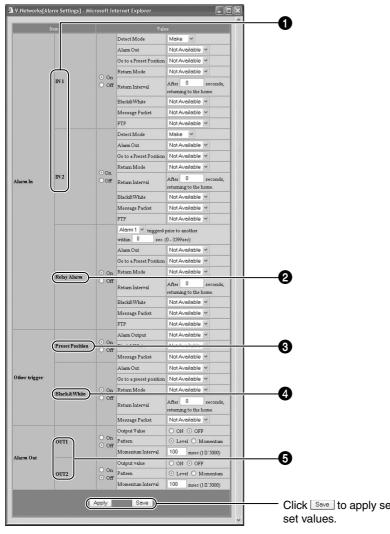
settings will be restored.

5-4 Setting Using the Web Browser (7. Alarm Setting)

Alarm Setting window:

http://*****/alarm-e.html ("******" represents the URL of VN-C655)

This page describes procedures for setting VN-C655 operation upon input of alarm signals.



Click Save to apply settings and to save the set values.

Click Apply to apply settings without saving the set values. These settings will be cleared upon turning off the power of VN-C655, and the previous settings will be restored.

Alarm In

For specifying the camera operation upon input of alarm signals.

IN1/IN2

- On : Detect Mode (Set value: Make, Break, Toggle)
 - : Alarm Out (Set value: Not Available, OUT1, OUT2)
 - : Go to a Preset Position (Set value: Not Available, Home, Position 1 to Position 99)
 - : Return Mode (Set value: Not Available, Return, Event)
 - : Return Interval (Set value: 1 to 65535 seconds)
 - : Black & White (Set value: Not Available, Color, Black & White, Auto)
 - : Message Packet (Set value: Available, Not Available) : FTP
 - (Set value: Available, Not Available)
- Off : Do not use Alarm 1 and Alarm 2.

Paral Relay Alarm

- On : Alarm Out (Set value: Not Available, OUT1, OUT2)
 - : Go to a Preset Position (Set value: Not Available, Home, Position 1 to Position 99)
 - : Return Mode (Set value: Not Available, Return, Event)
 - : Return Interval (Set value: 1 to 65535 seconds)
 - : Black & White (Set value: Not Available, Color, Black & White, Auto)
 - : Message Packet (Set value: Available, Not Available) : FTP
 - FIP
 - (Set value: Available, Not Available)
- Off : Do not use Relay Alarm.

Other Triggers

For setting alarm activation via methods other than alarm input.

O Preset Position

- On : Alarm Output (Set value: Not Available, OUT1, OUT2)
 - : Black & White (Set value: Not Available, Color, Black & White, Auto)
 - : Massage Packet (Set value: Available, Not Available)
- Off : Do not use "Preset Position" Alarm.

Black & White

- On : Alarm Out (Set value: Not Available, OUT1, OUT2)
 - : Go to a Preset Position (Set value: Not Available, Home, Position 1 to Position 99)
 - : Return Mode (Set value: Not Available, Return, Event)
 - : Return Interval (Set value: 1 to 65535 seconds)
 - : Massage Packet (Set value: Available, Not Available)
- Off : Do not use Black & White Alarm.

Alarm Out

For performing setting related to output during an alarm activation.

OUT1/OUT2

- On : Output Value (Set value: ON, OFF)
 - : Pattern
 - (Set value: Level, Momentum)
 - : Momentum Interval
 - (Set value: 1 to 5000 milliseconds)
- Off : Do not output alarm.

(Notes

- Set output settings according to settings of the device for which alarm output is sent to.
- When alarm setting is complete, always check to ensure that the alarm is functioning correctly.

5-4 Setting Using the Web Browser (8. FTP Setting)

FTP Client Setting window:

http://******/ftp-e.html ("******" represents the URL of VN-C655)

Notes

• What is an FTP Client?

It is a feature that uploads VN-C655 images (still images) to the existing FTP server at a regular interval.

By doing so, it is possible to make use of the server's image distribution services, thereby enabling distribution of images to a considerably larger number of clients.

Item		Value
	Upload Interval 60	sec (0-65535 sec)
	opioad interval 00	sec (0-00000 sec)
	Alarm FTP	
(FTP Function)	Before trigger 5	(0-15 sec)
	After trigger 5	(0-60 sec)
	Upload Interval 1	(0-00 sec)
	Filename	
	vnetworks Timesterne (m.200	.jpg (1-32 characters)
(Username)		01-06-07-17-34-12-653.jpg)
	anonymous	(1-16 characters)
(Password		(0-32 characters)
(Host IP Address)	0. 0. 0. 0	
(FTP Port)	21 (Normally Port 21)	
FTP Folder		(0-64 characters)
Connection	disconnect every time	
	On connect error	
Error Recovery	Retry forever Retry for 10 min	n (1-600 min)
(LIIGI Recovery)	On transfer error	n (1-000 mm)
	Stop Uploading	
		Save

Click Save to apply settings and to save the set values.

Click Apply to apply settings without saving the set values. These settings will be cleared upon turning off the power of VN-C655, and the previous settings will be restored.

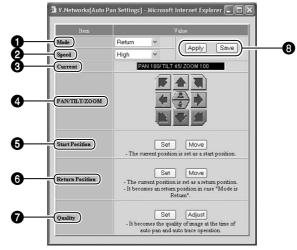
Item				Meaning
FTP Function				For setting whether to use the FTP function.
Snap Shot FTP			Check this box when the function for uploading JPEG images to the FTP server is to be used regularly.	
	Upload Interval			Specify the time interval at which images are uploaded to the FTP server. (Set value: 0 to 65535 seconds)
	Alarm FTP			Check this box to upload JPEG images to the FTP server when there is an alarm input.
	Before trigger After trigger Upload Interval		trigger	Set the time interval for uploading images before an alarm input. (0 to 15 seconds before trigger)
				Set the time interval for uploading images after an alarm input. (0 to 60 seconds after trigger)
			al	Specify the time interval for uploading images to the FTP server when in the Alarm FTP mode. (0 to 60 seconds)
		Filenai (Still ir FTP, Si Alarm	nage ame as	Specify the name of the image file to upload.
	*.jpg		*.jpg	File will be uploaded using the file name specified here. *Only 1 image file remains in the FTP server as images are uploaded as the same file name. (The old image will be overwritten by the latest image.)
			Time stamp	Images are uploaded using a file name that indicates the current time of the internal clock in VN-C655 in the (YYYY-MM-DD-HH-MM- SS-mmm) format. *Images are always uploaded with a different file name and therefore all uploaded image files will remain in the FTP server.
2 User name				Enter the user name to use for verification with the FTP server. (1 to 16 characters)
Password				Enter the password to use for verification with the FTP server. (0 to 32 single-byte characters) (Displayed as "***")
Ø H	lost IP A	ddress		Enter the IP address of the FTP server at the upload destination.
6 F	TP Port			Enter the FTP port number at the upload destination.
6 F	TP Fold	er		Enter the folder name on the FTP server at the upload destination.
0 C	onnecti			Set whether to disconnect everytime upon uploading.
Disconnect everytime		erytime	Disconnect upon uploading each image. Connection will have to be re-established when uploading the next image. Specify a recovery action when errors related to FTP occur.	
8 E	Error Recovery			Specify a recovery action when errors related to TCP connection or FTP verification occur.
On connect error		ror		
	[Retry f	orever	Recovery attempt is repeated until the power for VN-C655 is turned off.
			nterval	Repeats recovery attempt within the specified time interval. (Set value: 1 to 600 mins)
	On tran	sfer err	or	Specify a recovery action upon occurrence of a file transfer error while uploading the images.
		Stop Upload	ding	Disable the FTP function of VN-C655 automatically upon occurrence of a transfer error. To resume, enable the FTP function.

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5-4 Setting Using the Web Browser (9. Auto Pan Setting)

Auto Pan Setting window:

http://******/autopan-e.html ("******" represents the URL of VN-C655)



Mode

For setting the mode of Auto Pan operation. (Set value: Right, Left, Return)

2 Speed

For setting the speed of Auto Pan operation. (Set value: Normal, High, Low)

Ourrent

Displays the current Pan/Tilt/Zoom positions.

PAN/TILT/ZOOM

For manual Pan/Tilt/Zoom operation. Manual operation is possible only when you are clicking one of these buttons.

6 Start Position

For setting the start position of Auto Pan operation. Specify the angle of view and zoom position for the start position using Pan/Tilt/ Zoom 4, followed by clicking [Set].

To check the Auto Pan start position that has been set, click [Move].

6 Return Position

For setting the return position of Auto Pan operation. Specify the angle of view and zoom (3) [Apply] and [Save] Buttons position for the return position using Pan/Tilt/ Zoom 4. followed by clicking [Set]. To check the Auto Pan return position that has been set, click [Move].

Quality

Upon clicking <u>Set</u>, the current image will switch to the image quality setting during Auto Pan operation.

The same settings will also be applied during Auto Trace operation. To adjust the image quality, do so using the [Image Quality Adjustment] screen by clicking Adjust.

Item		Va	lue	
	⊙ Auto			
IricMade	O Manual 050	O Manual 050 (0 - 100)		
II IS ABOUT	O Auto+			
	O Auto-			
	⊙ ATW			
White Balance	OAWC	R-B Gain	37	(0-100)
	Adjustment takes about 15 seconds.	Mg-O Gain	25	(0-100)
Average:Peak	8.2 💌			
ExDR Mode	○ ON ⊙ OFF			
ExDRLevel	0 🛩			
BLC	OFF Y			
	App	ly		

[Image Quality Adjustment] Screen

Click Save to apply settings and to save the set values.

Click Apply to apply settings without saving the set values. These settings will be cleared upon turning off the power of VN-C655, and the previous settings will be restored.

5-4 Setting Using the Web Browser (10. Auto Patrol Setting)

Auto Patrol Setting window:

http://*****/autopatrol-e.html ("*****" represents the URL of VN-C655) For setting the Auto Patrol operation.

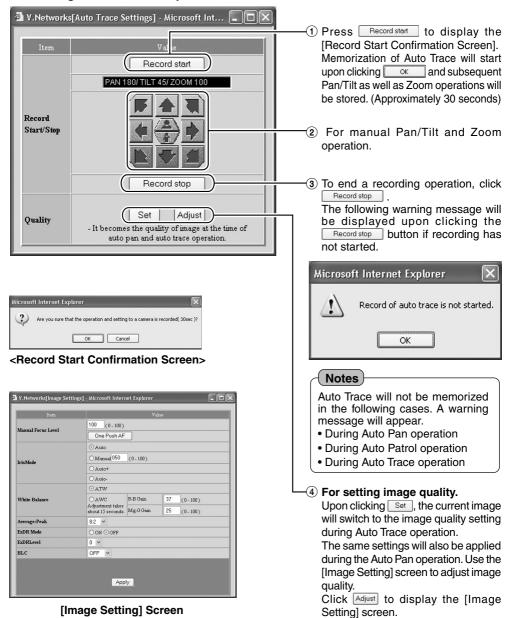
V.Nety prks[Auto Patrol Settings] - Microsoft Internet Explorer	 Mode Select the mode for which settings are to be changed. (Set value: Mode 1, Mode 2, Mode 3) Position Number
No. Postion No. (0(HOME)-99) Time (see) 1 1 10 10 2 1 10 10 10 3 2 10 10 10 10 4 3 10 10 10	For each Patrol Number, set a Position Number to move to in sequence. (Set value: 0 (HOME), 1 to 99)
S 4 10 w 6 5 10 w 7 6 10 w 8 7 10 w 9 8 10 w 10 10 w 10 w 10 10 w 10 w 9 8 10 w 10 10 w 10 w	 Duration For setting the duration for displaying each position. (Set value: Skip, 10 s, 20, s, 30 s, 45 s, 60 s, 120 s)
	 Click View to display the current settings for the selected mode.
	Click Register to enable the settings.

5-4 Setting Using the Web Browser (11. Auto Trace Setting)

Auto Trace Setting window:

http://******/autotrace-e.html ("******" represents the URL of VN-C655)

For setting the Auto Trace operation.



5-4 Setting Using the Web Browser (12. Black & White Setting)

B & W Setting window:

http://*****/bwcongig-e.html ("******" represents the URL of VN-C655)

For performing setting related to switching between the Color and Black & White modes.

	—1 Mode
🖄 V. Networks[B&W Settings] - Micros 🗖 🗖 🗙	Color : Color mode at all times. Black & White
Item Value (Mode) Color	Auto : Black & White mode at all times. : For switching automatically between the Black & White and Color modes according to the
(Auto Level	brightness of the object.
One Push AF One Push AF One Push AF One Push AF	For setting the sensitivity of switching when in the [Auto] mode. (Set value: Low, Normal, High)
(Apply Save)	3 One Push AF Adjusts focus automatically upon switching between the Color and Black & White modes when in the [Auto] mode.
Click Save to apply settings and to save the set values. Click Apply to apply settings without saving the set values. These settings will be cleared upon turning off the power of VN-C655, and the previous	4 Light For selecting the type of lighting. (Set value: Normal, IR)

5-4 Setting Using the Web Browser (13. Schedule Setting)

Schedule Setting window:

settings will be restored.

http://*****/bwsuchedule-e.html ("******" represents the URL of VN-C655)

This can be used to specify switch between the Black & White/Color modes based on a timer.

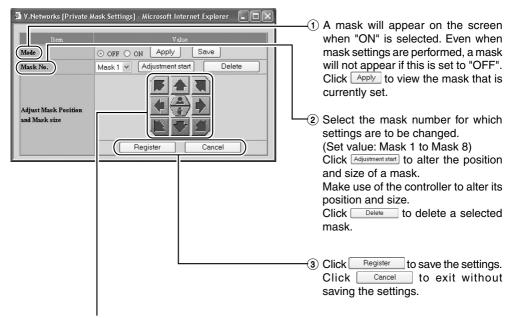
Ttem	orks[Sched	lule Settings] - Microsoft Internet 🗐 💌 Value	Time1/Time2 For setting the time interval for switching to the Color/Black & White/Auto modes.
Time1	○ ON ⊙ OFF	0 : 0 > • Not Available . Color . • Color . . .	ON : Switches to the selected mode at the preset time. (Set value: Color, Black & White, Auto)
Time2	○ ON ⊙ OFF	0 . 0 • Not Available • Color Black&White •	OFF : Do not switch using Timer. Click Save to apply settings and to save the set values.
	(Apply Save	Click Apply to apply settings without saving the set values. These settings will be cleared upon turning off the power of VN-C655, and the previous settings will be restored.

5-4 Setting Using the Web Browser (14. Private Mask Setting)

Private Mask Setting window:

http://******/privatemask-e.html ("******" represents the URL of VN-C655)

For setting the Private Mask function.



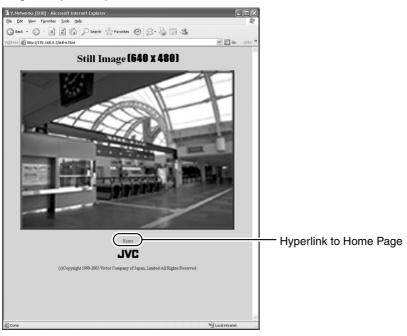
Mask Position and Size Controller

5-5 Viewing Still Images

Still Image Page:

http://*****/still-e.html ("******" represents the URL of VN-C655)

This page can only be used to view still images. Camera image at the point when browsing starts is displayed. To update the image, use [Refresh] or [Reload] on the web browser. To save the displayed image, use [Save As] on the web browser.



5-6 Viewing Live Images

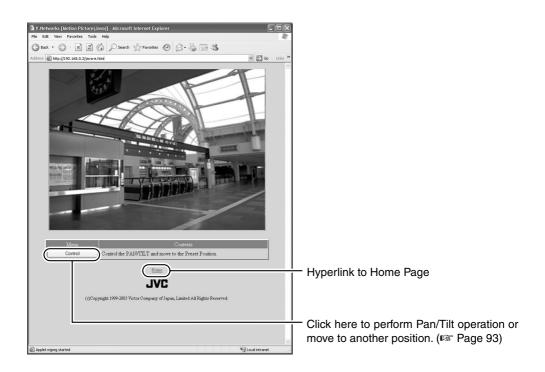
Live Image Page:

http://******/java-e.html ("******" represents the URL of VN-C655)

This page can only be used to view motion images. Camera images are automatically updated and displayed as a motion image.

Notes

Do not use the [Save As] function as this page is not created to support the [Save As] function on the web browser. Similarly, do not use the [Save As] function for web pages as they also do not support this function.



5-7 Image Link

Output images of VN-C655 can be pasted onto a separately created web page. Images (still and motion) captured using VN-C655 can also be incorporated and displayed on a user-created web page.

Displaying a still image:

Still images can be displayed by creating a web page containing the following:

 (Enter URL of VN-C655 in "******")

Displaying a motion image:

Motion images can be displayed by creating a web page containing the following:

```
<APPLET CODE="mjpeg.class" WIDTH=640 HEIGHT=480 CodeBase="http://*****/"></APPLET>
(Enter URL of VN-C655 in "******")
```

Displaying still images uploaded to the /user folder:

Still images in the /user folder can be displayed by creating a web page containing the following:

 (xxxxx refers to the file name of the still image)

Notes

 Both still and motion images are displayed according to the preset image size and compression level values.

If Java is disabled in the web browser, images may not be displayed properly.

- If a password has been set, password authentication will be necessary before display of motion images using Java is made possible. (This is an Internet Explorer restriction.)
- Ensure that the "WIDTH" and "HEIGHT" values are identical to the image size set in VN-C655.

Troubleshooting

Symptom	Causes/Remedial Actions
Forgotten the VN-C655 IP address that was changed using the "VN-C655U Setup Tool".	• Use the "Search" function in the "VN-C655U Setup Tool" to view the list of IP addresses for cameras connected to the network. (I Page 28)
Unable to record.	 Has the folder for saving images been deleted? Check to ensure that the folder exists. (R Page 77) Is the hard disk of your PC full? Check the available hard disk space on your PC and delete unwanted files.
A long time is required to cancel an action when the "Connecting " message is displayed.	• Once the connection is activated, it cannot be canceled within a few seconds.
Color is unsatisfactory.	 Check the color adjustments of the monitor and video card. Is the color setting of your PC screen set to High Color (16 bits) or lower? If this is so, change it to True Color (24 bits) or higher. It will be difficult to achieve display of natural color tones using a setting that is lower than this. Adjust the White Balance. Adjust White Balance manually on the [Image Quality Setting] screen. (R Pages 59, 94) When shooting scenes with different light sources (e.g. when alternately shooting outdoor scenes under the sunlight and indoor scenes under a fluorescent light), Auto White Balance may take some time to function. Hue may differ slightly according to different objects, but this is not a malfunction.
Operation fails upon changing White Balance to the AWC mode.	• White Balance is automatically adjusted when it is set to AWC. Adjustment will take about 15 seconds, during which setting of image quality is not possible.
Image size and quality changes automatically.	• When a VN-C655 is connected to multiple PCs, priority will be given to the PC for which VN-C655 operation /setting is last performed.
Connection to VN-C655 cannot be established or gets cut off.	• When the network is loaded with frequent broadcasting or collisions, connection may not be established or may be cut off when errors occur with the network. Check the network status.

Symptom	Causes/Remedial Actions
Unable to perform camera control or settings acquired are incorrect for a span of about 60 seconds after turning on the power.	• About 60 seconds are required for initialization of the camera to complete upon turning on the power. To perform camera control or acquire settings, do so by allowing an interval of at least 60 seconds after turning on the power.
Video images cannot be displayed smoothly.	• Live images may appear in slow motion or loss of frames may occur when the PC specifications or network bandwidth is inadequate.
Forgotten the password upon enabling the password protection feature.	• Repair services will be required to undo the password protection feature. Please consult your dealer for details. Please also note that you may be asked to produce identification cards for security reasons.
Camera turns to another direction upon initializing.	 Has the Home position been registered? Register accordingly if this has not been done. (INGP Pages 66, 98)
Unable to select position.	 Are the positions registered? Register positions accordingly if this has not been done. (ING Pages 66, 98)
Video images are not displayed.	 Is the camera connected to a DC 18 V power supply? Check connection of the Converter Unit. (I Page 18) Is the LAN cable connected? Check connection of the LAN cable. (I Page 16)
Delay in the camera's Pan/Tilt actions.	 Is the Pan/Tilt speed set to a small value? Set this to a larger value. (IS Pages 69, 97)
Zoom does not move to "0"	 Is the maximum Digital Zoom value set to a value other than x10? Zoom to "0" is possible when this is set to x10.

Others

Specifications

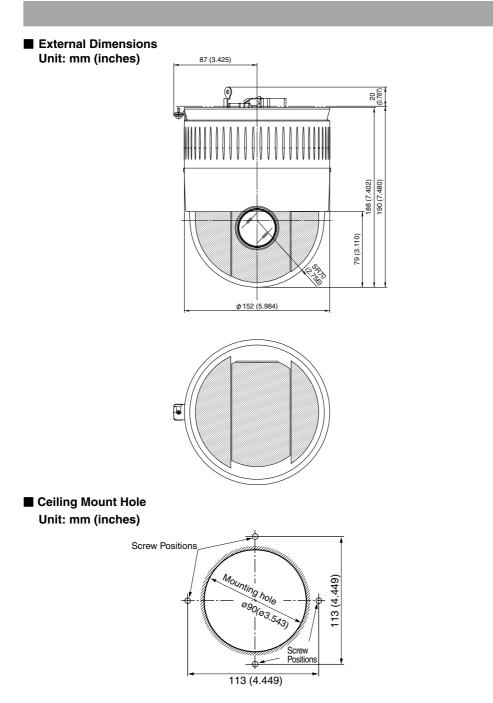
Camera	
Image pickup device :	1/4 inch type, interline transfer CCD, 768(H) x
	494(V) pixels.
-,	Internal
Scanning frequencies :	Horizontal 15.734 kHz, Vertical 59.94 Hz
White balance :	TTL auto tracking/
	Manual
Electronic shutter :	1/60, 1/100, 1/250, 1/500,
	1/1000, 1/2000, 1/4000,
	1/10000 sec.
Back light compense	ation 📕
:	Possible by selecting 4
	photometry areas
Colour level adjustm	nent
-	Possible
	Both Horizontal and
(ENHANCE)	Vertical (level adjustable)
< Monitor Output	
	50 dB (typical), (AGC
0/11	OFF, ENHANCE –5)
Minimum object :	Color mode :
illumination	2.0 lx (50 % output, AGC
	20 dB, WIDE end)
	0.6 lx (25 % output, AGC
	20 dB, WIDE end)
	0.07 lx (50 % output, AGC
	20 dB, WIDE end,
	32x slow shutter)
	B & W mode :
	0.06 lx (50 % output, AGC
	20 dB, WIDE end)
Dynamic range :	50 dB (ExDR mode)

Pan/Tilt Mechanism

Panning range Panning speed Tilting range Tilting speed	: 360° endless revolution : 1°/s to 300°/s : 0° to 90° (Horizontal – Straight downwards) : 1°/s to 180°/s
LAN standard Communication protocol	: TCP, UDP, FTP, ICMP, ARP, DHCP, NTP, HTTP
I General Power supply Number of preset positions Ambient temperatures Ambient humidity Mass Accessories	: DC 18 V, 1.4 A : 100 : 0°C to 50°C (32°F to 122°F) (operating), 0°C to 40°C (32°F to 104°F) (recommended) : 20 % to 85 %RH (without condensation) : 2.2 kg (4.850 lbs) : Read Me First

■ Lens

Zoom ratio	:	Approx. x25,
		10x electronic
Focal distance	:	3.8 mm to 95 mm
Maximum aperture	:	F1.6 (WIDE) to F3.7
		(Telephoto)



* Design and specifications are subject to change without notice.



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