

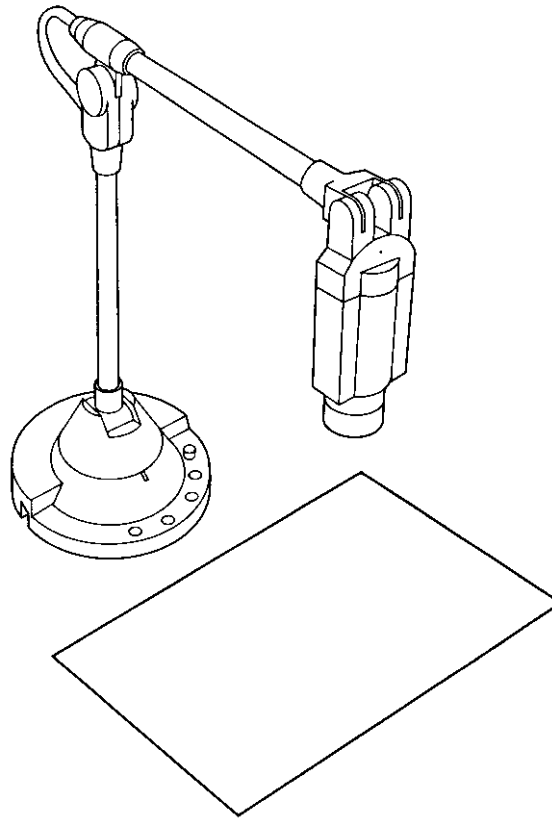
**CANON**

**VIZCAM1000  $\alpha$**   
**USER'S MANUAL**

**Canon**

DOCUMENT CAMERA FOR CANOMEDIA  
**VIZCAM 1000 $\alpha$**

**INSTRUCTION MANUAL**



**Caution**

Before using your Canon VIZCAM 1000 $\alpha$ , be sure to read this INSTRUCTION MANUAL carefully. Be sure to read the section in this manual entitled "▲IMPORTANT SAFETY INSTRUCTIONS". Store this manual in a safe place so that it is always available should it ever be needed in the future.

English

**E**  
English

Thank you very much for purchasing this Canon VIZCAM 1000 $\alpha$  Document Camera.  
For proper use of your Canon VIZCAM 1000 $\alpha$ , please be sure to read this INSTRUCTION MANUAL carefully.

Before doing anything else, carefully read the section of this manual entitled "Safe Use of Equipment," and be sure to always keep in mind the warnings contained there. Failure to observe these warnings may result in damage to the equipment, or in damage to your person or property.

Please be advised that the manufacturer cannot assume any responsibility for loss of recorded video, or for financial loss arising therefrom, regardless of internal or external causes, when this equipment is connected to computer.

**Notice**

This product uses a microcomputer. External radio frequency energy, etc., may cause picture interference, so avoid using this product in such a location.



## Safe Use of Equipment

An exclamation point, within a triangle, is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.

### Important Warnings



#### 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 serial number of this equipment may be found on the back of the camera head. No others have the same serial number as yours.

You should record the number and other vital information here and retain this book as a permanent record of your purchase to aid identification on case of theft.

**Date of Purchase**

**Dealer Purchased from**

**Dealer Address**

**Dealer Phone No.**

**Model No. Canon VIZCAM 1000 $\alpha$**

**Serial No.**

#### **For Users in the UK (PA-V14 only)**

When replacing the fuse only a correctly rated approved type should be used and be sure to re-fit the fuse cover.

## Important Warnings

The AC adapter can be connected to the VIZCAM 1000 $\alpha$  from a mains outlet. Please check your instruction manual to make sure that your VIZCAM 1000 $\alpha$  is compatible with this adapter.

- The socket-outlet should be installed near the equipment and should be easily accessible.
- Unplug the apparatus from the wall outlet before cleaning or performing maintenance.

## Important Usage Instructions

### FCC NOTICE

VIZCAM1000 $\alpha$

**Note:** This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Use of shielded cable is required to comply with class B limits in Subpart B of Part 15 of FCC Rules.

Do not make any changes or modifications to the equipment unless otherwise specified in the manual. If such changes or modifications should be made, you could be required to stop operation of the equipment.


### IC NOTICE

This product does not exceed the Class B limits for radio noise emissions from digital apparatus as set out in the Interference-causing equipment standard entitled 'Digital Apparatus', ICES-003 of the Industry and Canada.



## IMPORTANT SAFETY INSTRUCTIONS

In these safety instructions the word "product" refers to the Canon VIZCAM 1000 $\alpha$  and all its accessories.

1. Read Instructions — All the safety and operating instructions should be read before the equipment is operated.
2. Retain Instructions — The safety and operating instruction should be retained for future reference.
3. Heed Warnings — All warnings on the equipment and in the operating instructions should be adhered to.
4. Follow Instructions — All operating and maintenance instructions should be followed.
5. Cleaning — Unplug this equipment from the wall outlet before cleaning. Wipe the equipment with a clean soft cloth. If necessary, put a cloth in diluted neutral detergent and wring it well before wiping the equipment with it. Finally, clean the equipment with a clean dry cloth. Do not use benzene, thinner or other volatile liquids or pesticides as they may damage the product's finish. When using chemically-treated cleaning clothes, observe those precautions accordingly.
6. Accessories — Do not use accessories not recommended in this manual as they may be hazardous. Always use specified connection cables. Connect devices correctly.
7. Water and Moisture — Hazard of electric shock Do not use the equipment near water or in rainy/moist situations Do not put a heater near this equipment.
8. Placing or Moving — Do not place on an unstable cart, stand, tripod, bracket or table. The equipment may fall, causing serious injury to a child or adult, and serious damage to the equipment. An equipment and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the equipment and cart combination to overturn. 
9. Power Sources — The AC Adapter 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 supply to your home, consult your equipment dealer or local power company.
10. Grounding — This equipment is equipped with a 3-pronged grounding plug (a plug having a third grounding pin). The 3-pronged grounding plug will fit into the power outlet. This is a safety feature. If you are unable to insert the plug fully into the outlet, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the grounding-type plug.
11. Power Cord Protection — Power cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them. Pay particular attention to plugs and the point from which the cords exit the equipment.

12. **Lightning** — For added protection of this equipment during a lightning storm, or when it is left unattended and unused for long periods of time, disconnect it from the wall outlet and disconnect the antenna. This will prevent damage to the equipment due to lightning and power-line surges.

13. **Overloading** — Do not overload wall outlets and extension cords as this can result in a risk of fire or electric shock.

14. **Object and Liquid Entry** — Never push objects of any kind into this equipment through openings as they may touch dangerous voltage points or short out parts that could result in a fire or electric shock. Be careful not to spill liquid of any kind onto the equipment.

15. **Servicing** — Do not attempt to service this equipment yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified personnel.

16. **Damage Requiring Service** — Disconnect this equipment from the wall outlet and all power sources including battery, and refer servicing to qualified service personnel under the following conditions:

- When the power-supply cord or plug is damaged.
- If any liquid has been spilled onto, or objects have fallen into, the equipment.
- If the equipment has been exposed to rain or water.
- If the equipment does not operate normally even if you follow the operating instructions. Adjust only

those controls that are covered by the operation instructions. Improper adjustment of other controls may result in damage and often require extensive work by a qualified technician to restore the equipment to its normal operation.

e. If the equipment has been dropped or the cabinet has been damaged.

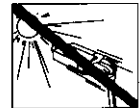
f. When the equipment exhibits a distinct change in performance. This indicates a need for service.

17. **Replacement Parts** — When replacement parts are required, be sure the service technician has used replacement parts that are specified by Canon or that have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock or other hazards.

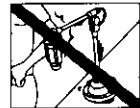
18. **Safety Check** — Upon completion of any service or repairs to this equipment, ask the service technician to perform safety checks to determine that the equipment is in safe operating order.

19. **Safety Considerations** —

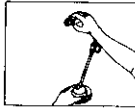
a. Do not expose the lens to any strong light such as direct sunlight, as this may result in fire.



b. Place the equipment on a stable level surface. Do not place it in a location where you might accidentally come into contact with it, such as on a tilted or an unstable surface, as doing so may cause the equipment to drop or tip over, and result in injury.

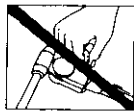


- c. Always hold the base firmly in place when adjusting the position of the camera head.



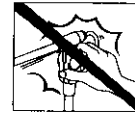
Failure to hold the base in place may result in injury, if the equipment drops or tips over.

- d. When moving the equipment, always turn off the power switch, unplug the AC adapter and all cords and hold the lower arm of the equipment.

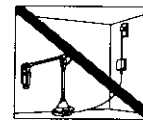


Holding the equipment by the camera head, upper arm, or cable may cause you to drop it and result in injury or damage to the equipment.

- e. When operating the movable parts of the equipment, be careful not to get your fingers caught as this may result in injury.



- f. Do not plug the equipment into outlets that are high up on walls or ceilings. If the AC Adapter becomes unplugged, it may cause the equipment to fall and result in injury.



## Icons Used in This Instruction Manual

### **Warning**

Represents instructions that, if ignored, could result in death or serious personal injury caused by incorrect operation of equipment. Instructions indicated by this icon must be observed for safe operation.

### **Caution**

Represents instructions that, if ignored, could result in personal injury or physical damage caused by incorrect operation of equipment. Instructions indicated by this icon must be observed for safe operation.

### **Notice**

Represents important guidelines or restrictions concerning proper operation of equipment. Read instructions indicated by this icon in order to prevent equipment failure or damage.

### **Memo**

Describes useful reference information or supplemental instructions concerning operation of equipment. Reading information beneath this headline is recommended.



Ico

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Acc

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Sys

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Trout

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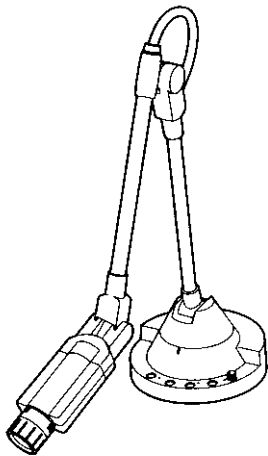
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## Main Features

- ❑ **Features a high image-quality, super low-distortion Canon lens**  
Clear reproduction, with low peripheral distortion, as large as Letter Size (landscape) or as small as postage-stamp size subjects.
- ❑ **Universal Arm**  
Employs a triple-jointed arm, making it possible to shoot a wide variety of desktop subjects besides documents.
- ❑ **Camera Head with Reversal Mechanism**  
Camera head rotation facilitates shooting of human subjects as well as documents.
- ❑ **Image Capture Function**  
Allows you to capture a still image of a moving subject simply by pressing a button.
- ❑ **Color/B&W Selector Function**  
Makes it easy to switch to black and white display of color images.

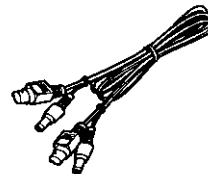
## Accessories



● VIZCAM 1000 $\alpha$



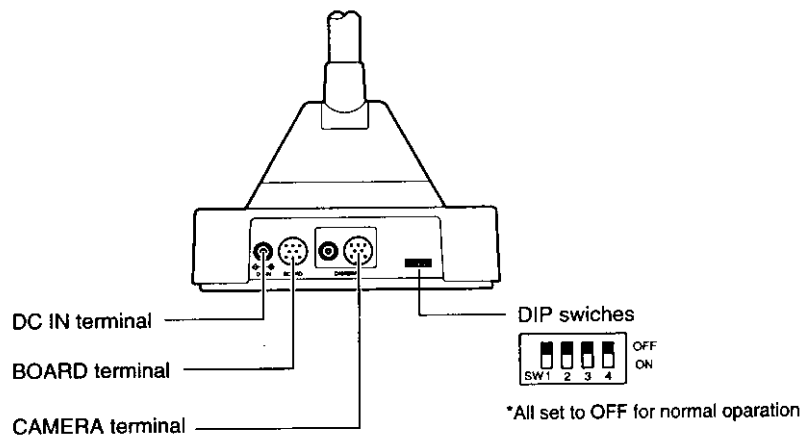
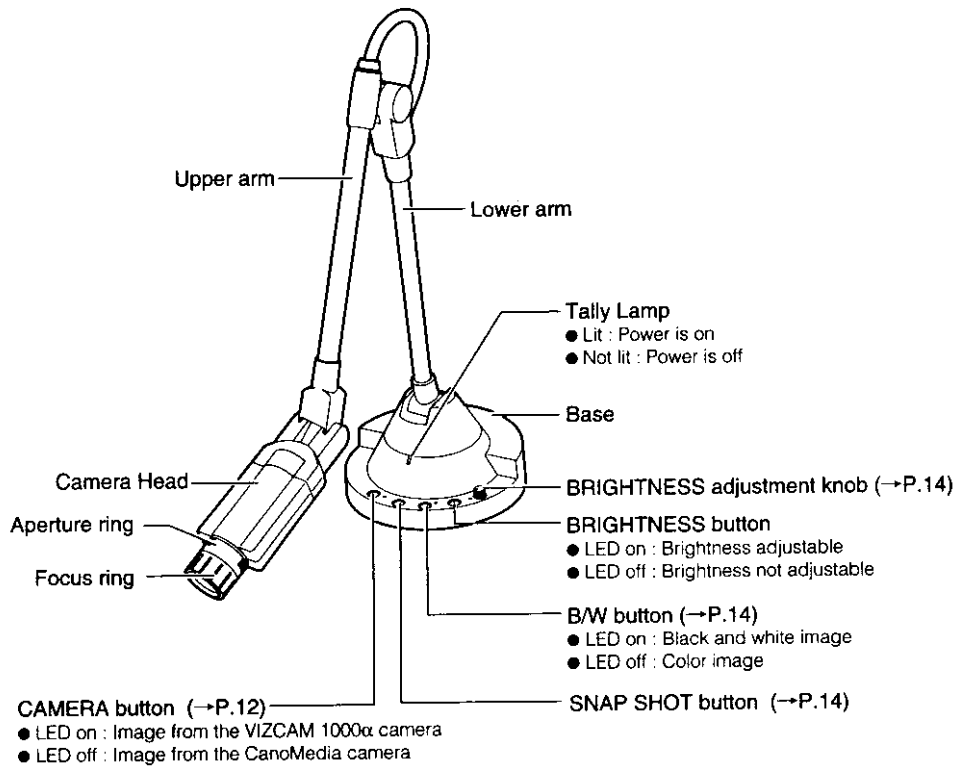
● Lens cap



● CCU cable

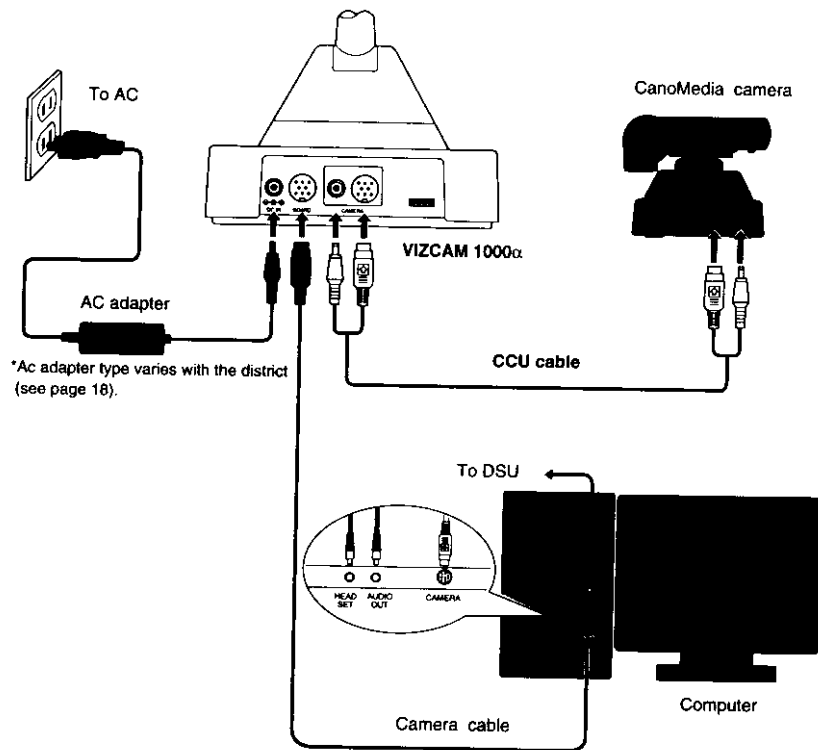
● INSTRUCTION MANUAL

# Nomenclature



# System Construction

The CanoMedia 1.5 software is needed to use this product.




\*Ac adapter type varies with the district (see page 18).


\* The AC adapter and camera cable are supplied with the CanoMedia system.

**Warning** Use only the CanoMedia AC adapter. Failure to do so may result in fire or electric shock.

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 Please consult with your equipment dealer regarding earthquake resistant measures.

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 For the equipment shown, refer to the respective Instruction Manuals supplied for more information regarding operation.

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3  
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6

### **When Connecting the VIZCAM 1000 $\alpha$ to an Existing CanoMedia System**

The CanoMedia 1.5 software is needed to use this product. Refer to the CanoMedia Installation Guide for information on upgrading your software.

1. **Switch your computer and the CanoMedia camera off.**
2. **Unplug the AC adapter from the power outlet. Then unplug the AC adapter cord from the CanoMedia camera and plug it into the DC IN socket on the VIZCAM 1000 $\alpha$ .**
3. **Unplug the camera cable from the CanoMedia camera and plug it into the BOARD socket on the VIZCAM 1000 $\alpha$ .**
4. **Plug one end of the CCU cable supplied with the VIZCAM 1000 $\alpha$  into the CAMERA socket on the VIZCAM 1000 $\alpha$ , and then plug the other end into the CAMERA CABLE socket on the CanoMedia camera.**
5. **Plug the AC adapter back into the power outlet.**

### **When Installing the VIZCAM 1000 $\alpha$ and the CanoMedia System at the Same Time**

1. **Install the CanoMedia hardware and software.**  
Refer to the Installation Guide supplied with CanoMedia for information on installing the CanoMedia system.
2. **Check that your computer and the CanoMedia camera are both switched off.**  
Check also that the AC adapter is disconnected.
3. **Plug one end of the camera cable supplied with the CanoMedia system into the BOARD socket on the VIZCAM 1000 $\alpha$  and then plug the other end into the CAMERA port on your computer.**
4. **Plug the AC adapter supplied with the CanoMedia system into the DC IN socket on the VIZCAM 1000 $\alpha$ .**
5. **Plug one end of the CCU cable supplied with the VIZCAM 1000 $\alpha$  into the CAMERA socket on the VIZCAM 1000 $\alpha$ , and then plug the other end into the CAMERA CABLE socket on the CanoMedia camera.**
6. **Plug the AC adapter back into the power outlet.**

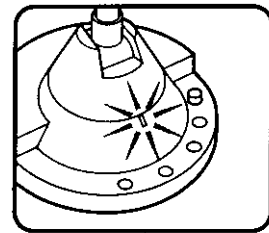
## Basic Operation

### 1. Switch the computer and the CanoMedia camera on and start up the CanoMedia application program.

The tally lamp on the VIZCAM 1000 $\alpha$  lights and the image from the CanoMedia camera appears in the viewer window on the monitor.

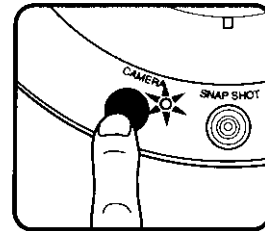
When you switch the computer on, the status of the LEDs is as follows:

- CAMERA button LED : Off (CanoMedia camera image)
- B/W button LED : Off (color image)
- BRIGHTNESS button LED : On (brightness adjustable)



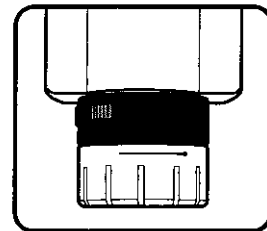
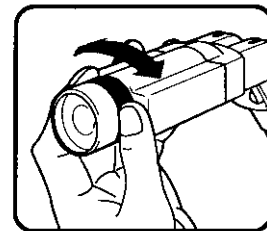
### 2. Press the CAMERA button.

The CAMERA button LED lights and the image from the VIZCAM 1000 $\alpha$  camera appears in the viewer window. If you press the button again, the LED goes off and the image from the CanoMedia camera reappears in the viewer window .

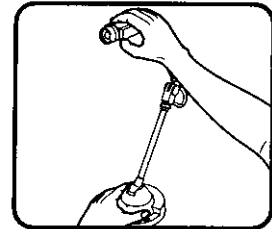


### 3. Turn aperture ring and set aperture to 2.8.

After turning the power on, the equipment will adjust brightness automatically; set aperture to 2.8 for normal shooting.

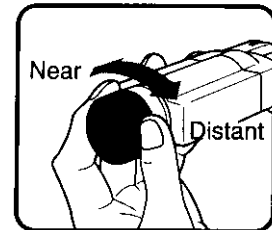


4. Point the camera head at the subject. Refer to the image in the viewer window on the monitor when you are adjusting the camera head angle.



**⚠ Caution** Always hold base firmly in place when adjusting the position of the camera head.  
Failure to hold base in place may result in injury, if the equipment drops or tips over.

5. Turn the focus ring in order to focus on subject.



Turning the focus ring fully clockwise (distant) may cause the entire image plane to become defocused.  
The "∞" mark on the focus ring indicates the approximate location for infinite distance focusing.

This concludes the description of basic operations. For information regarding other operations, please refer to "Advanced Operation" on page 14, and "Shooting Various Subjects" on page 15.

**⚠ Caution** For safety reasons, always unplug the AC adapter from the power outlet if the equipment will not be used for an extended period.  
Failure to do so may result in fire or electric shock.



After turning the power off, wait at least 5 seconds before attempting to turn power back on.  
Failure to do so may result in operation failure.

## Advanced Operation

The functions described here can only be used when the image from the VIZCAM 1000 $\alpha$  camera is displayed.

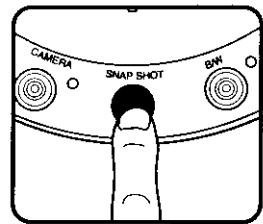
### Capturing Still Images

**1. Press the SNAP SHOT button.**

When you press the button, a snapshot (still image) of the current screen image is taken and a file name input window appears.

**2. Type in a name and save the image.**

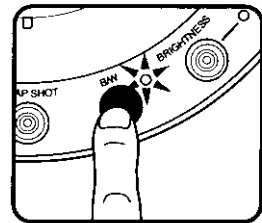
Refer to the CanoMedia User's Guide for details.



### Displaying an Image in Black and White

**1. Press the B/W button.**

The B/W button LED lights and the image appears in black and white. If you press the button again, the LED goes off and the color image reappears.



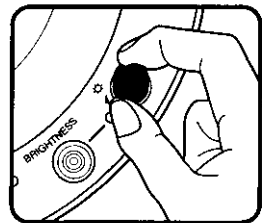
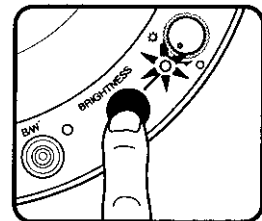
### Adjusting the Brightness

**1. Check that the BRIGHTNESS button LED is lit.**

If the LED is not lit, press the BRIGHTNESS button.

**2. Turn the BRIGHTNESS adjustment knob until the image on the monitor is set to the desired brightness.**

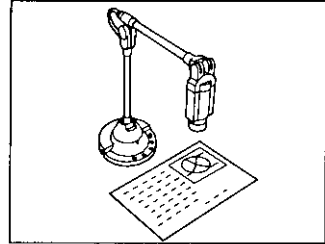
If you press the BRIGHTNESS button again, the LED goes off and you can no longer adjust the brightness.



## Shooting Various Subjects

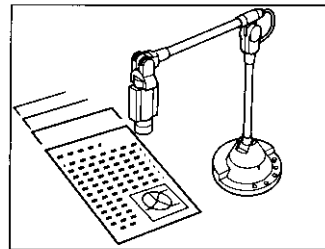
### Shooting Landscape A4 Size Originals

Adjust the angle between camera head and upper arm, and the angle between upper arm and lower arm, so that both are 90°. This allows a horizontal A4-size original to fill the monitor screen.



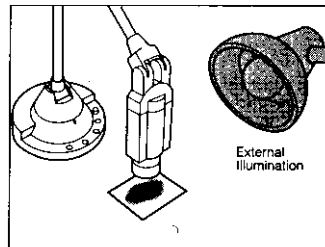
### Shooting Vertical A4 Size Originals

An entire A4-size portrait original will not fit within the monitor screen at one time, but placing the original to the side of the equipment makes it easier to move the original for viewing the desired portion.



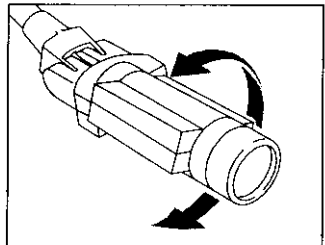
### Shooting Small Subjects, such as Postage Stamps

Moving the camera head close to the subject can darken the image, as insufficient light reaches the equipment. Please use external illumination in such cases.



### Shooting Human Subjects

Rotate camera head and aim at subject until subject appears squarely framed in the field of view on the monitor screen.



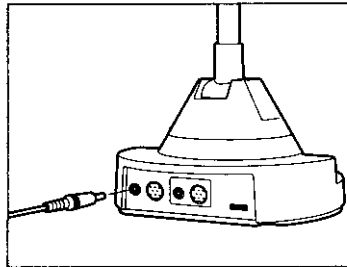


## Troubleshooting

Please perform the following checks before consulting your dealer.

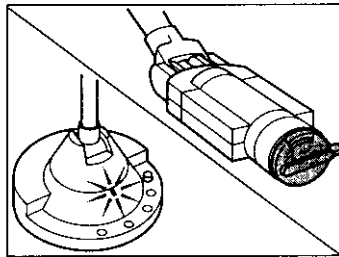
*Camera does not light*

- Are all the cables properly connected? (see page 10)
- Is the AC adapter plugged in properly? (see page 10)



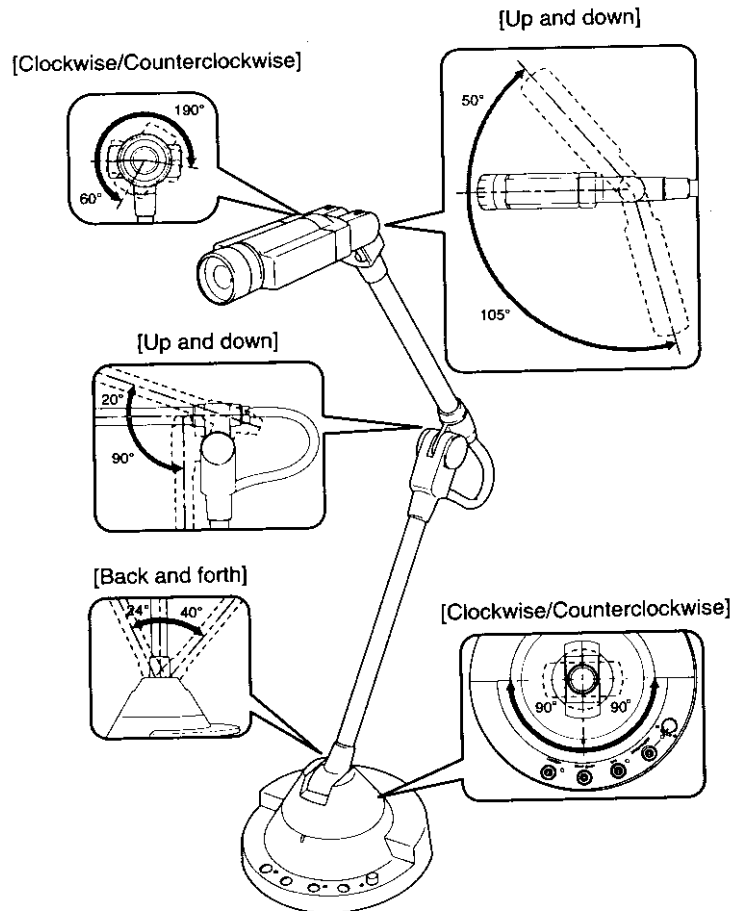
*The still camera does not work  
to record still images.*

- Is the lens cap on the camera head?



- Is the monitor power turned on?
- Is the monitor correctly connected to all the other devices? (see page 10)

## Range of Motion



### **Caution**

**Always hold the base firmly in place when adjusting the position of the camera head.**

Failure to hold the base in place may result in injury, if the equipment drops or tips over.



**Do not apply excessive force to movable parts.**  
Equipment failure or breakage may result.

## Specifications

<b>Video signal</b>	Conforms to PAL color format for Europe, Asia, Oceania Conforms to NTSC color format for USA, Canada.								
<b>Imaging sensor</b>	1/4" CCD image sensor								
<b>Total number of pixels</b>	410,000 pixels (effective pixels = 380,000)								
<b>Synchronization</b>	Internal								
<b>Horizontal resolution</b>	Equivalent to 450 TV lines								
<b>Vertical resolution</b>	Equivalent to 350 TV lines								
<b>Mechanism articulation (maximum)</b>	<table> <tr> <td>Camera head</td> <td>Swivels 50 degrees up, 105 degrees down Rotates about lens axis 190 degrees clockwise, 60 degrees counterclockwise</td> </tr> <tr> <td>Upper arm</td> <td>Swivels 20 degrees up, 90 degrees down</td> </tr> <tr> <td>Lower arm</td> <td>Swivels 24 degrees forward, 40 degrees backward</td> </tr> <tr> <td>Base</td> <td>Rotates 90 degrees clockwise, 90 degrees counterclockwise</td> </tr> </table>	Camera head	Swivels 50 degrees up, 105 degrees down Rotates about lens axis 190 degrees clockwise, 60 degrees counterclockwise	Upper arm	Swivels 20 degrees up, 90 degrees down	Lower arm	Swivels 24 degrees forward, 40 degrees backward	Base	Rotates 90 degrees clockwise, 90 degrees counterclockwise
Camera head	Swivels 50 degrees up, 105 degrees down Rotates about lens axis 190 degrees clockwise, 60 degrees counterclockwise								
Upper arm	Swivels 20 degrees up, 90 degrees down								
Lower arm	Swivels 24 degrees forward, 40 degrees backward								
Base	Rotates 90 degrees clockwise, 90 degrees counterclockwise								
<b>Focusing</b>	Manual								
<b>Aperture</b>	Manual iris, F2.8 – F16								
<b>White balance</b>	Automatic								
<b>Lens</b>	f = 2.9 mm; F2.8								
<b>Lens construction</b>	6 groups, 8 pieces								
<b>Power supply</b>	Uses the AC adapter* supplied with the CanoMedia *PA-V12 : 120V AC, 60 Hz, 0.25 A / PA-V13 : 220 to 240V AC, 50 Hz, 0.25 A / PA-V14 : 240V AC, 50 Hz, 0.25 A / PA-V15 : 240V AC, 50 Hz, 0.25 A								
<b>Maximum power consumption</b>	7 W								
<b>Unit weight</b>	Approx. 5lb. (2.3 kg)								
<b>Unit dimensions</b>	6 "(w) × 8 <sup>9/16</sup> "(d) × 16 "(h) (152 mm (w) × 226 mm (d) × 407 mm (h)) (when collapsed)								
<b>Operating environment</b>	41°F–95°F (5°C–35°C), 20%–85%								
<b>Level</b>	±5 degrees from horizon								

Product specifications and appearance may be subject to change without notice for purposes of product enhancements, etc.

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### **Notes**

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4. Notwithstanding Item 3 above, Canon, Inc. accepts no liability whatsoever for any consequences of the use of this videoconferencing system.

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