

**ELMO**

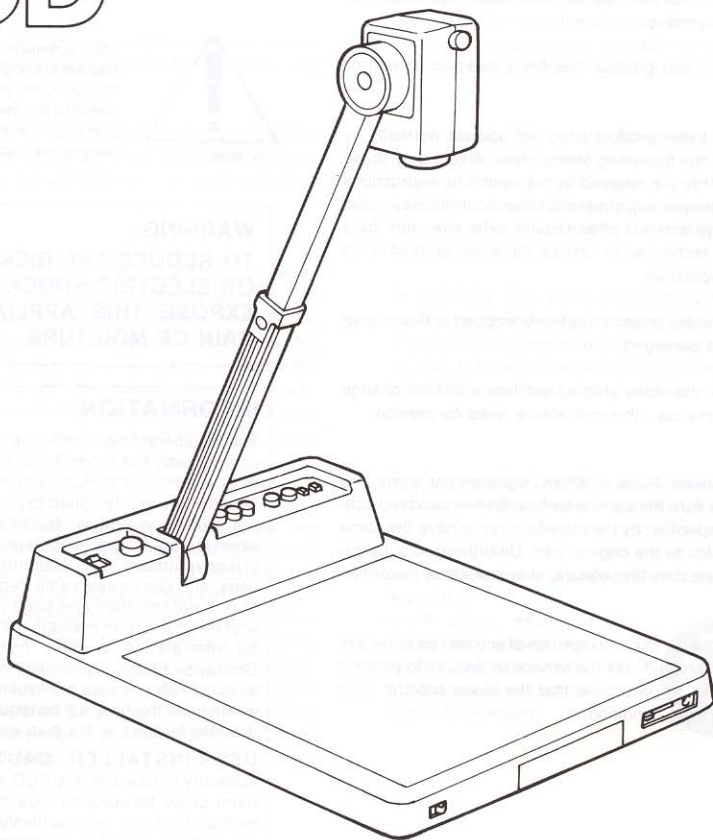
IMPORTANT SAFEGUARDS

**VISUAL PRESENTER**

**EV-308**

**OPERATION MANUAL**

**CCD**



# IMPORTANT SAFEGUARDS

- **Read Instructions** - All the safety and operating instructions should be read before the appliance is operated.
- **Retain Instructions** - The safety and operating instructions should be retained for future reference.
- **Heed Warnings** - All warnings on the appliance and in the operating instructions should be adhered to.
- **Follow Instructions** - All operating and use instructions should be followed.
- **Cleaning** - Unplug this video product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.
- **Attachments** - Do not use attachments not recommended by the video product manufacturer as they may cause hazards.
- **Water and Moisture** - Do not use this video product near water - for example, near a bath tub, wash bowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool, and the like.
- **Accessories** - Do not place this video product on an unstable cart, stand, tripod, bracket, or table. The video product may fall, causing serious injury to a child or adult, and serious damage to the video product. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the video product. Any mounting of the video product should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer.
- **Ventilation** - Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the video product and to protect it from overheating, and these openings must not be blocked or covered. The openings should never be blocked by placing the video product on a bed, sofa, rug, or other similar surface. This video product should never be placed near or over a radiator or heat register. This video product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.
- **Power Sources** - This video product 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 appliance dealer or local power company. For video products intended to operate from battery power, or other sources, refer to the operating instructions.
- **Grounding or Polarization** - This video product may be equipped with either a polarized 2-wire AC line plug (a plug having one blade wider than the other) or a 3-wire grounding type plug, a plug having a third (grounding) pin. The 2-wire polarized plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug still fails to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug. The 3-wire grounding type plug will 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 type plug.
- **Power-Cord Protection** - Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the appliance.
- **Lightning** - For added protection for this video product during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the video product due to lightning and power-line surges.
- **Overloading** - Do not overload wall outlets and extension cords as this can result in a risk of fire or electric shock.
- **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.



■ **Object and Liquid Entry** - Never push objects of any kind into this video product through openings 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 video product.

■ **Servicing** - Do not attempt to service this video product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

■ **Damage Requiring Service** - Unplug this video product from the wall outlet and refer servicing to qualified service personnel under the following conditions:

- When the power-supply cord or plug is damaged.
  - If liquid has been spilled, or objects have fallen into the video product.
  - If the video product has been exposed to rain or water.
  - If the video product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the video product to its normal operation.
  - If the video product has been dropped or the cabinet has been damaged.
  - When the video product exhibits a distinct change in performance - this indicates a need for service.
- **Replacement Parts** - When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock or other hazards.
- **Safety Check** - Upon completion of any service or repairs to this video product, ask the service technician to perform safety checks to determine that the video product is in proper operating condition.



SA 1965

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



SA 1966

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.

#### **WARNING:**

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

#### **INFORMATION**

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.

**USER-INSTALLER CAUTION:** Your authority to operate this FCC verified equipment could be voided if you make changes or modifications not expressly approved by the party responsible for compliance to Part 15 of the FCC rules.



Thank you for purchasing the Elmo Visual Presenter, model EV-308. To use the Visual Presenter properly, carefully read this operation manual before use. After reading the manual, we suggest you keep it in a convenient place for quick reference.

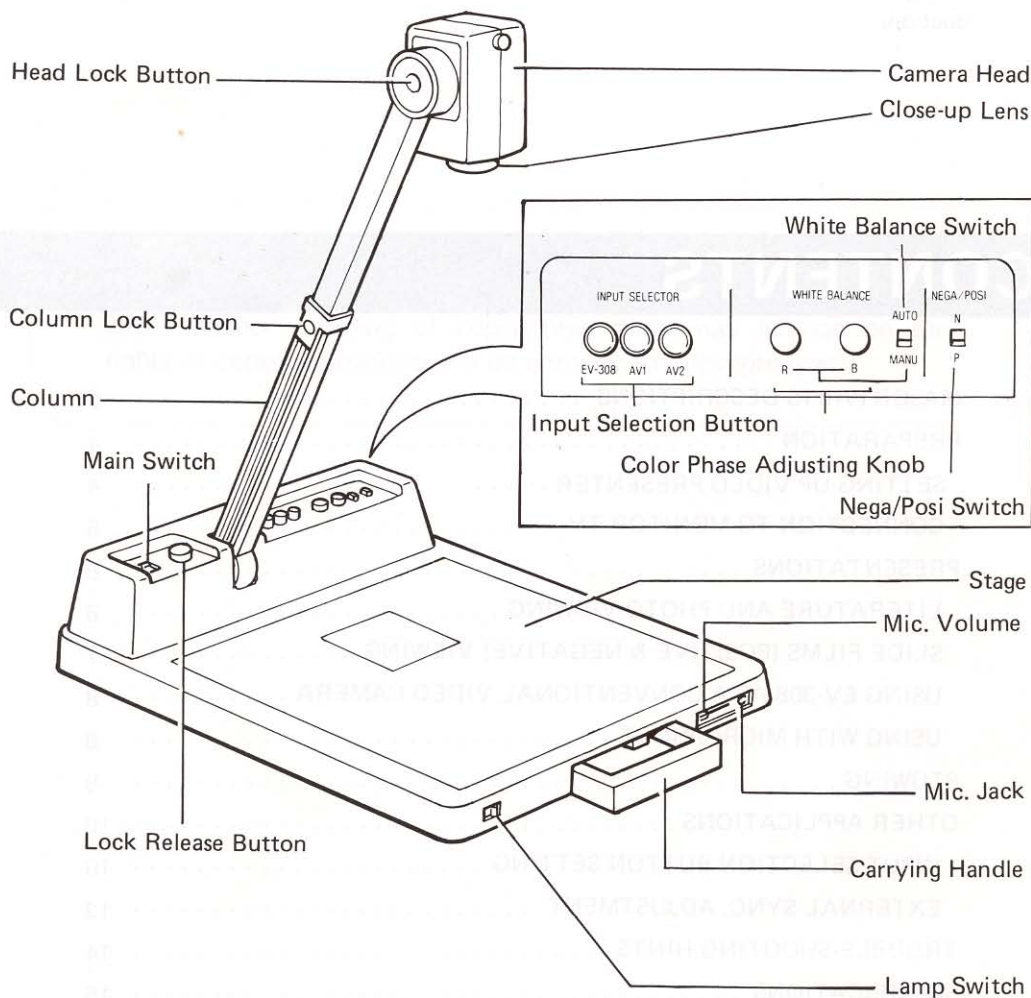
## Features:

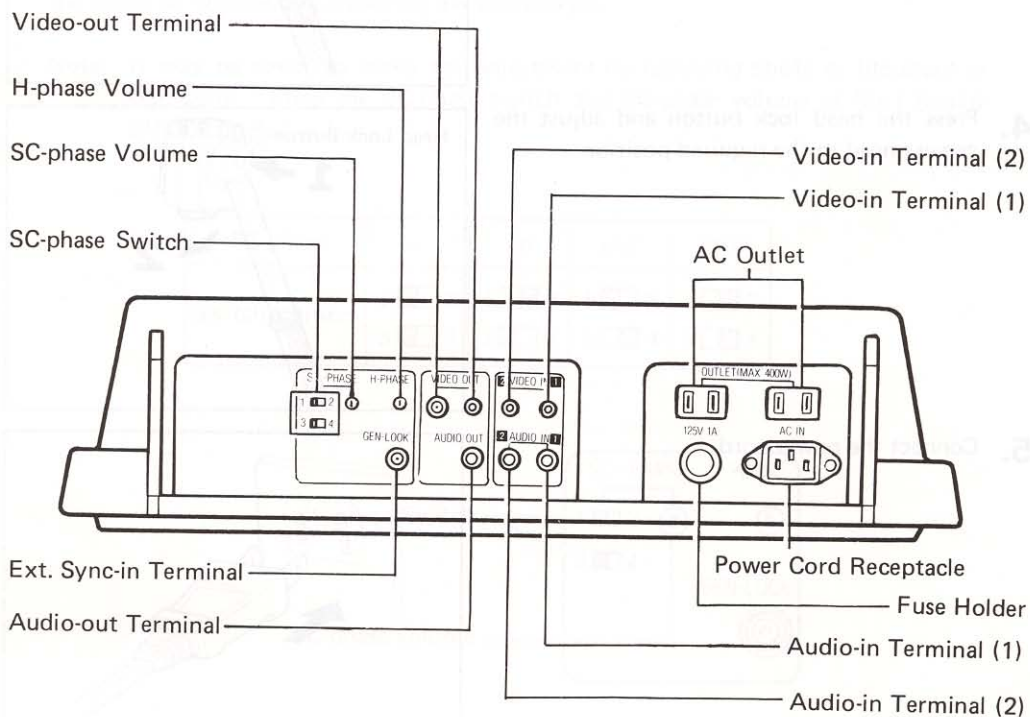
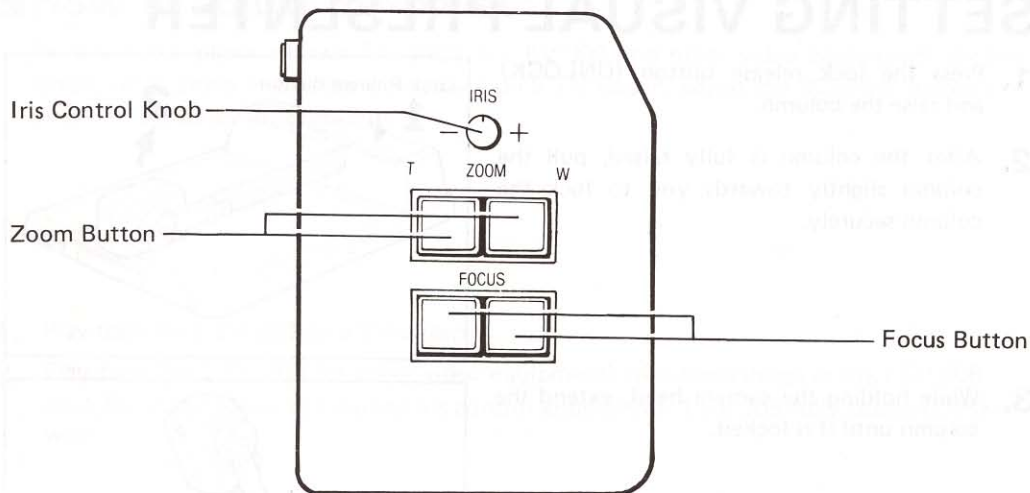
1. Unlimited applications for all needs of video transfer with VCR, still video recorder, video printer or any other video equipment.
2. The motor-powered 8-time zoom lens for close-up viewing.
3. Built-in transmissive lighting source allowing vivid reproduction of color slides.
4. A high-resolution color CCD (approx. 300,000 pixels) offering sharp image reproduction.

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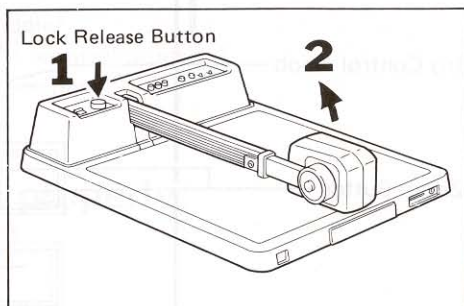
# MAJOR PARTS DESCRIPTIONS



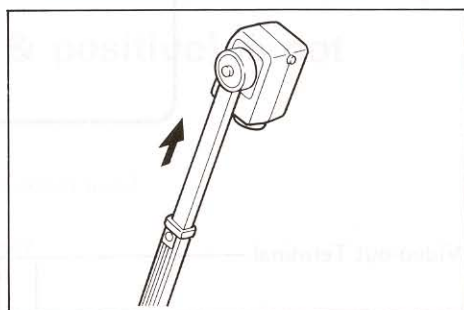


## SETTING VISUAL PRESENTER

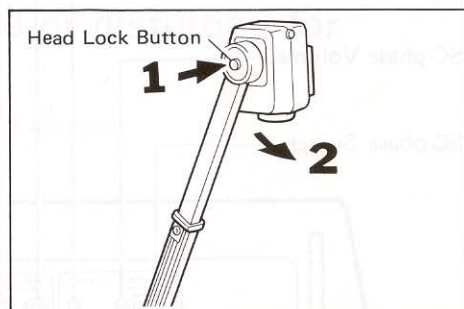
1. Press the lock release button (UNLOCK) and raise the column.



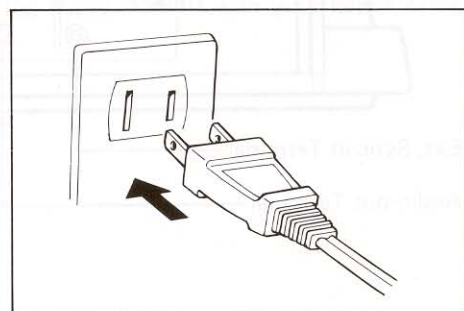
2. After the column is fully raised, pull the column slightly towards you to lock the column securely.



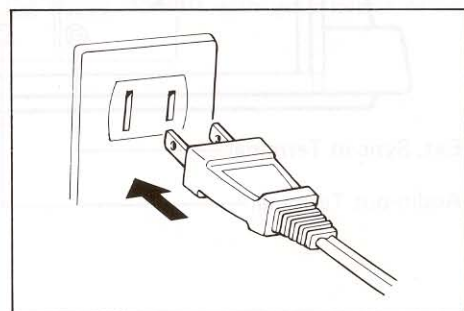
3. While holding the camera head, extend the column until it is locked.



4. Press the head lock button and adjust the camera head to the required position.



5. Connect the power cord.

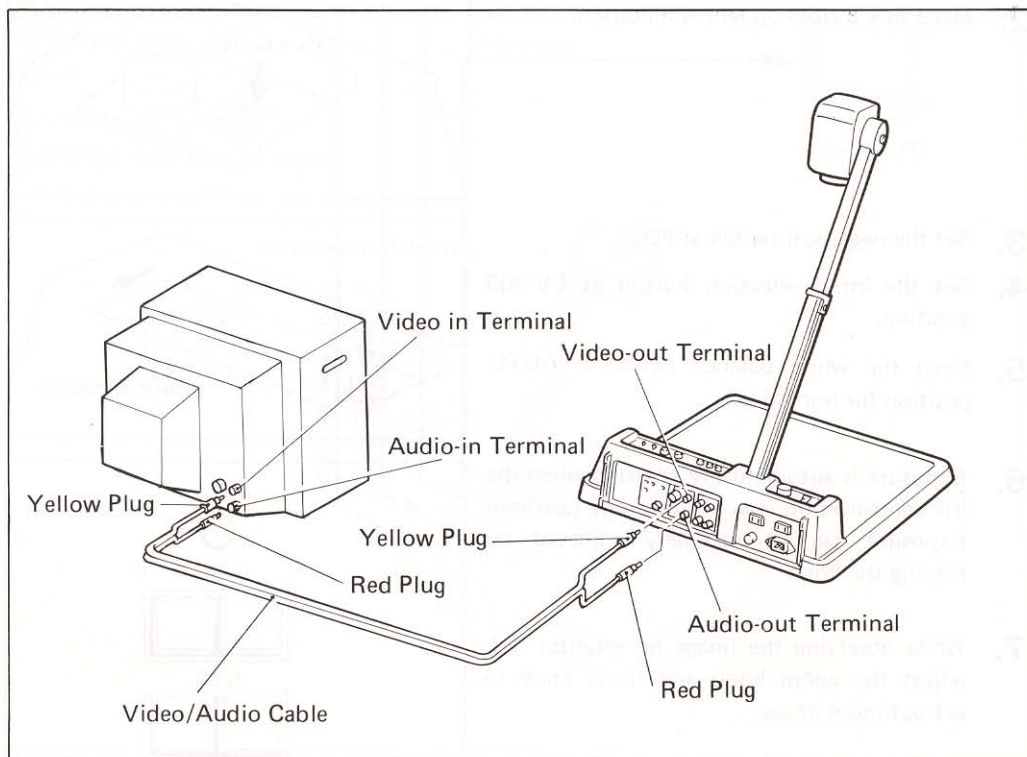


# CONNECTION TO MONITOR TV

Connect the EV-308 to a monitor TV with the supplied video-audio cable.

1. Plug in the yellow plug to the video-out terminal and the red plug to the audio-out terminal of the EV-308 respectively.
2. Plug in yellow plug to the video-in terminal and the red plug to the audio-in terminal of the monitor TV.

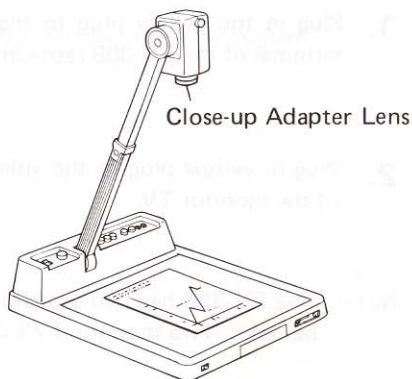
Note: The EV-308 has two video-out terminals (BNC/PIN Jacks) and either of them may be used. Two monitor TV's can be connected.



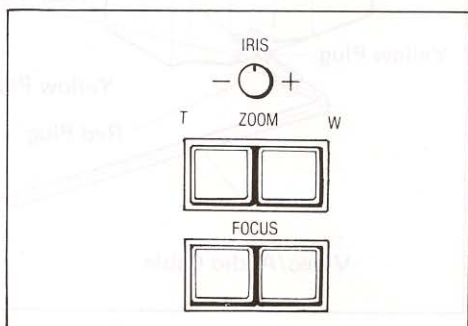
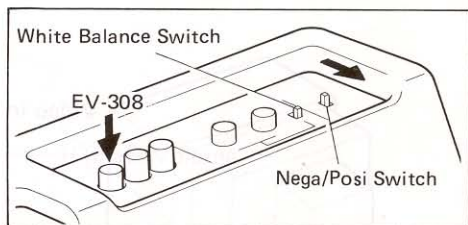
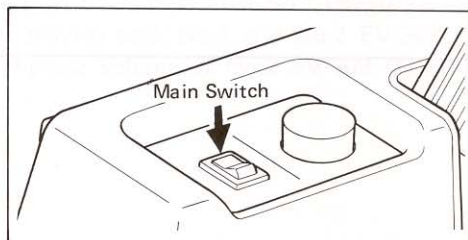


## LITERATURE AND PHOTO VIEWING

With the 8-time zoom lens built-in, materials in various size, a half of name card to B4 sheet can be viewed on monitor TV.

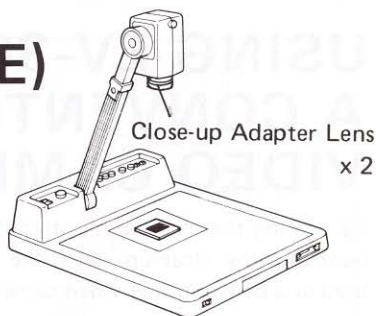


1. Set the main switch to ON.
2. Make sure a close-up lens is mounted.
3. Set the nega/posi switch at POSI.
4. Set the input selection button at EV-308 position.
5. Keep the white balance switch at AUTO position for normal use.
6. Exposure is automatically adjusted when the iris control knob is kept at middle position. Exposure can be manually adjusted by turning the knob.
7. While observing the image on monitor TV, adjust the zoom knob and focus knob to get optimum image.



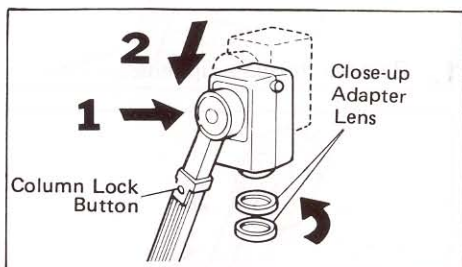
# SLIDE FILMS (POSITIVE & NEGATIVE) VIEWING

With the transmissive lighting source built in the stage, from 35mm to 4" x 5" negative/positive films can be viewed without any optional adapter.



1. While pressing column lock button, restore the column to its lowest position.

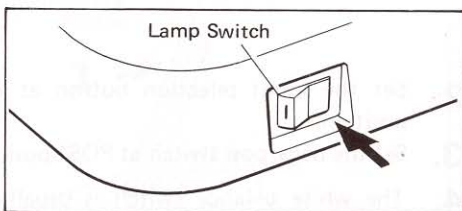
2. Mount the two close-up lenses (supplied) to the zoom lens.



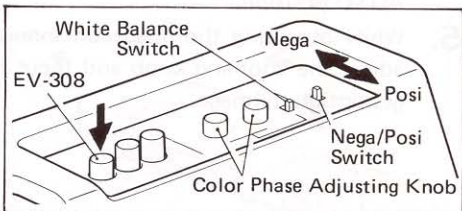
3. Set the lamp switch to ON.

4. Set the input selector button at EV-308 position.

5. Set the nega/posi switch according to the film to be viewed.

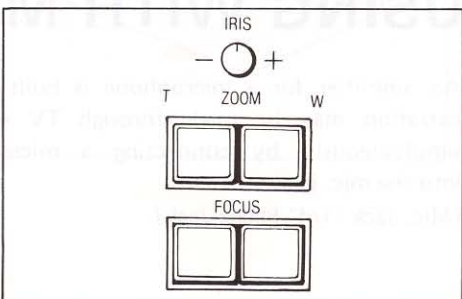


6. The white balance switch is usually set at AUTO position. When the color phase adjustment is required, set the white balance switch at MANU position and adjust the color phase, blue level and red level by turning the color phase adjusting knob.



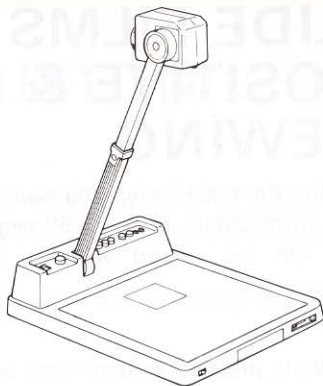
7. While observing the image on monitor TV, adjust the zoom knob and focus knob to get optimum image.

8. When viewing negative film, it is generally said that viewing in slightly over-exposed condition will result in better color reproduction. Exposure can be manually adjusted by turning the iris control knob.

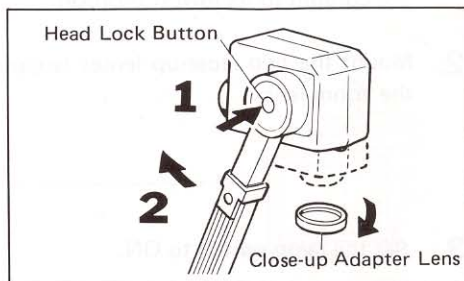


# USING EV-308 AS A CONVENTIONAL VIDEO CAMERA

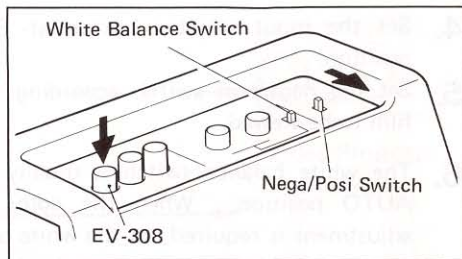
By placing the camera in horizontal position and removing the close-up lens, the EV-308 can be used as a conventional video camera.



1. Remove the close-up lens.



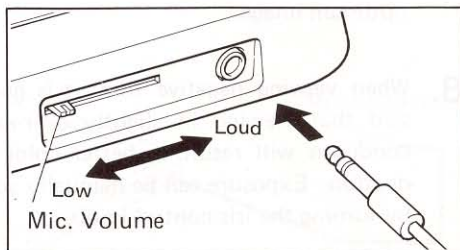
2. Set the input selection button at EV-308 position.
3. Set the nega/posi switch at POSI position.
4. The white balance switch is usually set at AUTO position.
5. While observing the image on monitor TV, adjust the zooming knob and focus knob to get optimum image.



# USING WITH MICROPHONE

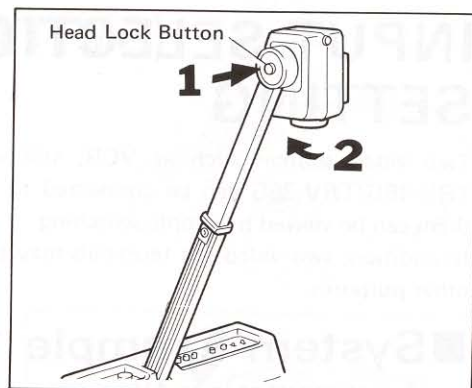
An amplifier for a microphone is built in, so narration may be made through TV speaker simultaneously by connecting a microphone into the mic. jack.

(Mic. Jack : 1/4" Phone Jack )

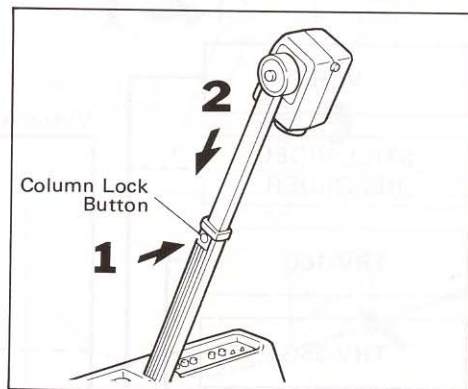


# STOWING

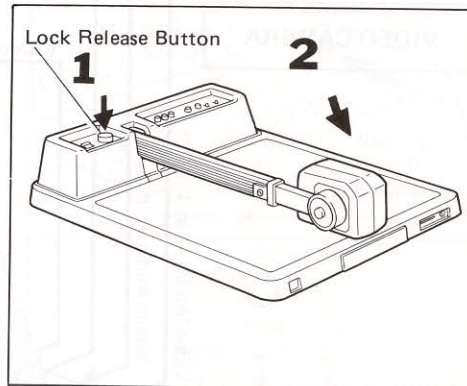
1. Press the head lock button and place the camera head parallel with the column.



2. While pressing column lock button, restore the column to its fully folded position.



3. Slightly raise the column and press the lock release button (UNLOCK). While holding the column fold it down to the stage.





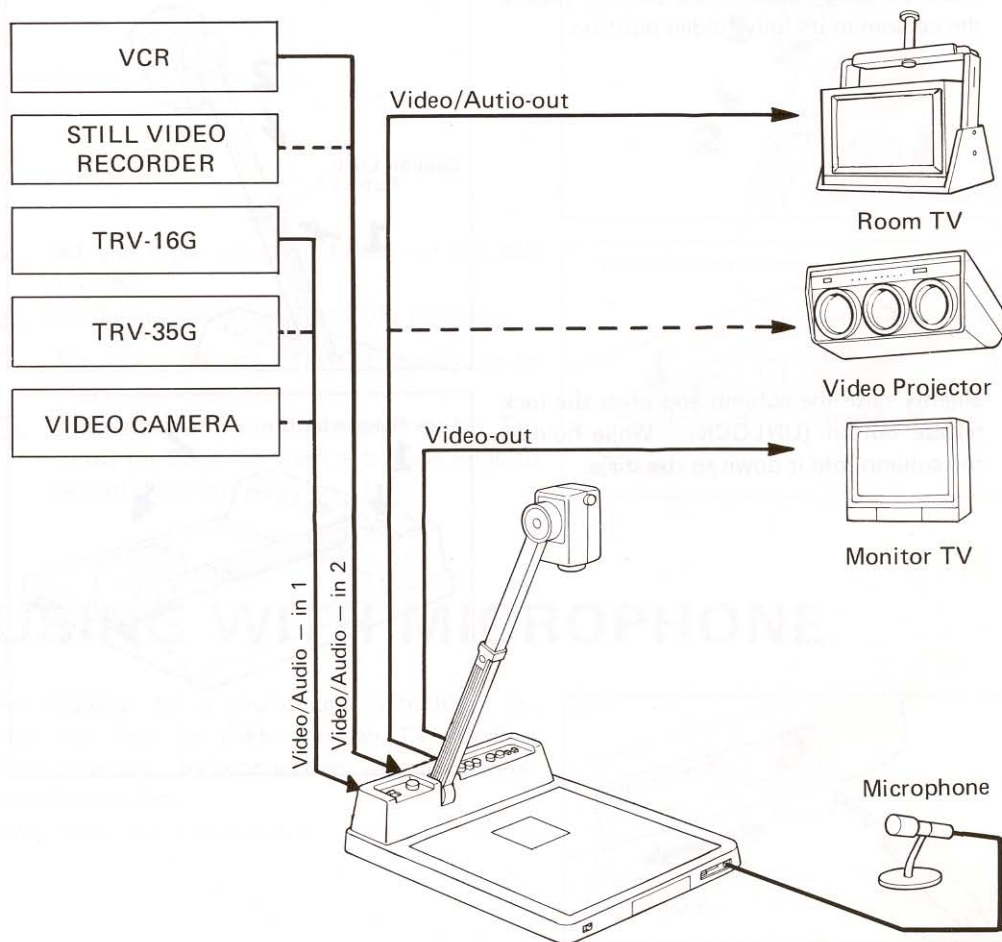
## INPUT SELECTION BUTTON SETTING

Two video sources such as VCR, still video recorder, Elmo film-to-video converters TRV-16G/TRV-35G can be connected to the EV-308. The video image from either of them can be viewed by simple switching.

In addition, two video-out terminals may be used for display, dubbing, editing and many other purposes.

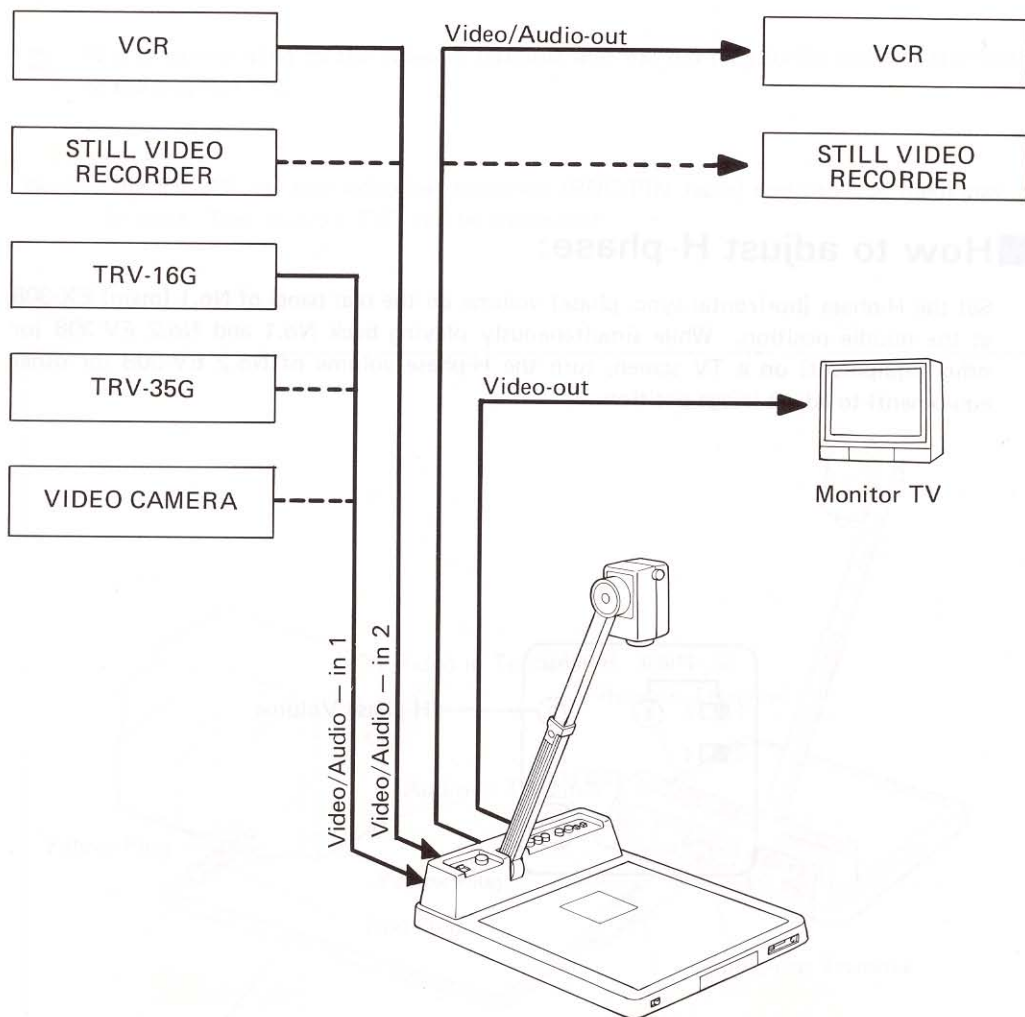
### ■ System Example 1

(A system setting in an AV room)



## ■ System Example 2

(A system setting for editing and dubbing)



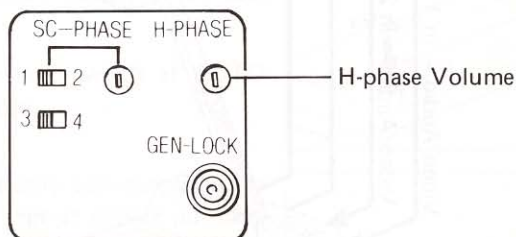
# EXTERNAL SYNC. ADJUSTMENT

Gen-lock circuit is built into the EV-308 to allow combination use of two EV-308's, video cameras, TRV-35G, TRV-16G, etc.

An optional video mixer is required to coordinate EV-308 and other video equipment.

## ■ How to adjust H-phase:

Set the H-phase (horizontal sync. phase) volume on the rear panel of No.1 (main) EX-308 at the middle position. While simultaneously playing back No.1 and No.2 EV-308 (or other equipment) on a TV screen, turn the H-phase volume of No.2 EV-308 (or other equipment) to adjust image position.











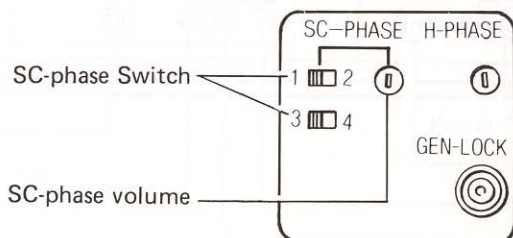
## ■ How to adjust SC-phase:

In case color phase of two EV-308's (or EV-308 and other video equipment) do not match when video images are overlapped on a TV screen, adjust the SC-phase (subcarrier phase) in the following procedure.

1. Play back No.1 EV-308 on a TV screen.
2. Play back No.2 EV-308 (or other video equipment) with same image as No.1 EV-308 on a TV screen, while turning the iris control knob of No. 1 EV-308 fully counterclockwise.
3. Select the SC-phase switch of No.2 EV-308 (or other video equipment) so that nearest color tone as that of No.1 EV-308 is obtained. Then make fine adjustment with the SC-phase volume by comparing the two images.

Note: It may be easier to make the adjustment by replaying photo or literature in skin color. Keep the SC-phase switch and SC-phase volume of No.1 (main) EV-308 unchanged.

SC-phase	0°	90°	180°	270°
Switch position.	<div>1  2</div> <div>3  4</div>	<div>1  2</div> <div>3  4</div>	<div>1  2</div> <div>3  4</div>	<div>1  2</div> <div>3  4</div>





## **When no image is produced;**

- Is the iris control knob positioned at the middle?
- Is the video cable connected to the video-out terminal properly?
- Is the input selection button set at EV-308 position?

## **When image is not focused properly;**

- Is close-up lens mounted properly?

## **When slide films (negative & positive) is not reproduced on TV screen;**

- Is the lamp turned ON?
- Are the two close-up lenses mounted on the zoom lens?
- Is the camera head set at correct position?
- Is the nega/posi switch set at correct position?

## **When image is not produced or disturbed for unknown reason;**

- Once turn off the power switch, and turn it on again.

If the trouble still persists even after checking the above, consult with your dealer or an authorized Elmo service center.

# SPECIFICATIONS

## ■ POWER

Power source  
Power consumption

AC single phase  
30W

## ■ OPTICS

Lens  
Shooting area  
Zooming  
Focusing  
Iris  
Transmissive lighting  
source for slides

F1.4~2.1, f=8.5~68mm  
340 x 250mm max.  
Powered  
Powered/manual  
Auto (with fine adjustment)  
Built-in

## ■ VIDEO

Television system  
Image pick-up element  
Picture element  
Sync. system  
Resolution

NTSC compatible  
1/2" Interline-transfer CCD  
570(H) x 485(V)  
Internal/external sync.  
More than 370 TV lines (Horizontal)  
More than 350 TV lines (Vertical)  
46 dB  
VBS1.0Vp-p/75Ω unbalanced  
C-VIDEO (75Ω unbalanced)  
Sync.: 0.3V±0.1V, Burst: 0.3V±0.1V  
Within + 50 ppm against NTSC standard

S/N ration  
Output signal  
External sync. input  
condition  
External sync.  
frequency range  
H-phase adjustment  
SC-phase adjustment  
White balance  
Nega/posi conversion  
Input selection button  
Input/output terminals

Manual (0~4μs)  
Manual (0~360°)  
Full-auto/manual  
Built-in  
3 buttons  
Video-in (RCA Female/75Ω unbalanced) x 2  
Ext. sync. input (BNC connector/75Ω  
unbalanced x 1  
Mic. input (1/4" Phone Jack /600Ω, -65dB) x 1  
Audio-in (RCA Female/10KΩ, -10db) x 2  
Video-out (BNC connector/75Ω unbalanced)x 1  
(RCA Female/75Ω unbalanced) x 1  
Audio-out (RCA Female/10KΩ, -10dB) x 1  
Approx. 450(W) x 550(D) x 670(H) mm  
-when set-up  
Approx. 450(W) x 550(D) x 130(H) mm  
-when folded  
Approx. 7.5 kgs (16.6 lbs)  
Power cord x 1  
Video-audio cable x 1  
Close-up adapter lens x 2  
Dust cover x 1

## ■ DIMENSIONS & WEIGHT

Dimensions

Weight  
Supplied accessories

\* The design and specifications are subject to change without prior notice.

## WARNING:

Unauthorized recording of copyrighted films may infringe on the rights of copyright owners and be contrary to copyright laws.



## **ELMO CO., LTD.**

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### **OVERSEAS SUBSIDIARY COMPANIES**

#### **U.S.A.**

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Tel. (516) 775-3200

21720 Nordhoff Street, Chatsworth, CA 91311  
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#### **West Germany**

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