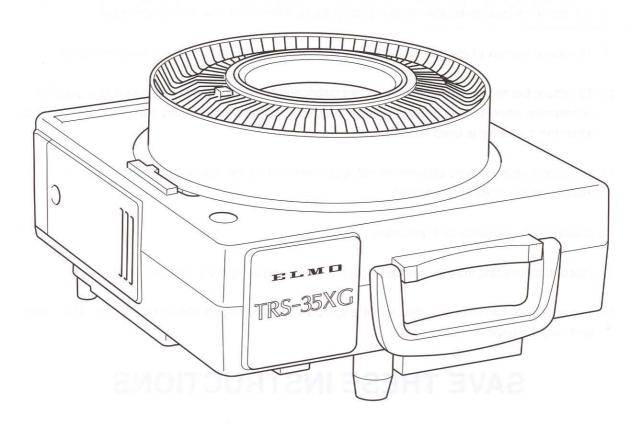
**High Resolution Slide Film Presenter** 

# TRS-35XG

### **INSTRUCTION MANUAL**



### IMPORTANT SAFEGUARDS

When using your photographic equipment, basic safety precautions should always be followed, including the following:

- 1. Read and understand all instructions before using.
- 2. Close supervision is necessary when any appliance is used by or near children. Do not leave appliance unattended while in use.
- 3. Care must be taken as burns can occur from touching hot parts.
- 4. Do not operate appliance with a damaged cord or if the appliance has been dropped or damaged-until it has been examined by a qualified serviceman.
- 5. Position the cord so that it will not be tripped over, pulled, or contact hot surfaces.
- 6. If an extension cord is necessary, a cord with a suitable current rating at least equal to that of the appliance should be used.
  - Cords rated for less amperage than the appliance may overheat.
- 7. Always unplug appliance from electrical outlet before cleaning and servicing and when not in use. Never yank cord to pull plug from outlet. Grasp plug and pull to disconnect.
- 8. Let appliance cool completely before putting away. Store cord in a manner provided.
- 9. To reduce the risk of electric shock, do not immerse this appliance in water or other liquids.
- 10. To reduce the risk of electric shock, do not disassemble this appliance, but take it to a qualified serviceman when service or repair work is required. Incorrect reassembly can cause electric shock when the appliance is used subsequently.
- 11. The use of an accessory attachment not recommended by the manufacturer may cause a risk of fire, electric shock, or injury to persons.
- 12. Connect this appliance to a grounded outlet.
- 13. Disconnect this unit from its source of supply before replacing the projection lamp.
- 14. The appliance switch is provided with the symbols O indicating off and I indicating on. The symbols and may be used for this purpose.

### SAVE THESE INSTRUCTIONS

### IMPORTANT SAFEGUARDS

### **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.

### HANDLING PRECAUTIONS

Thank you for purchasing the ELMO High Resolution Slide Film Presenter TRS-35XG.

Carefully read this instruction manual before use to ensure proper operation. Please keep this manual in a convenient place for quick reference.

- If the Presenter is used for purposes other than specified, we cannot guarantee its performance, service life, or safety.
- Do not expose the Presenter to direct sunlight or leave it in close proximity to a heater. Doing so may cause discoloration, deformation, or mechanical problems.
- Set the Presenter in a place free from excessive humidity and dust, sea air, and strong vibration. Use the Presenter in the following conditions:

Temperature: 5°C ~ 40°C (32°F ~104°F)

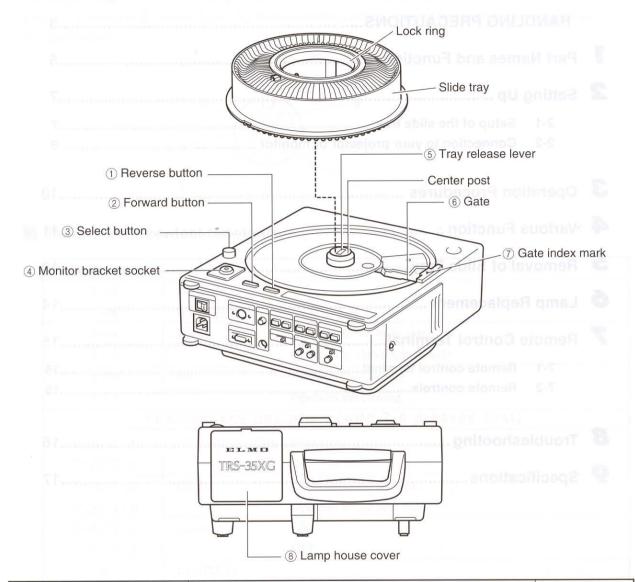
Humidity: 30% ~ 85% (No condensation allowed)

 Use only a soft, dry cloth for cleaning. Using benzine or thinner for cleaning may damage the coating or resin.

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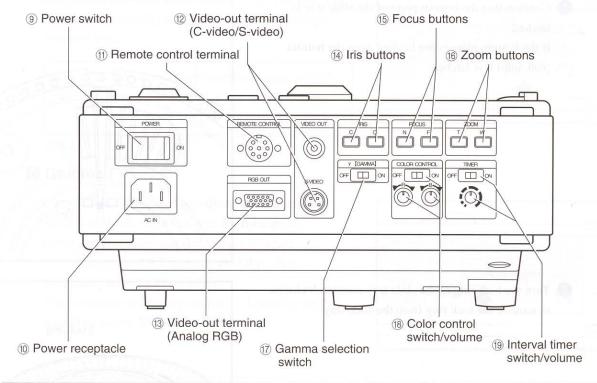
#### Overall View



	Part Name	Function	Reference Page
1	Reverse button	To send the slide tray clockwise by one frame.	_
2	Forward button	To send the slide tray counterclockwise by one frame.	tuo by =e_
3	Select button	To manually rotate the slide tray.	P.13
4	Monitor bracket socket	To install the LCD monitor through the LCD monitor bracket (option).	P.9
(5)	Tray release lever	To remove the slide tray in manual turn mode.	P.13
6	Gate	To allow the slide mount to drop.	— <u> </u>
7	Gate index mark	To serve as a match mark when the slide tray is installed/removed.	P.8, P.13
8	Lamp house cover	To access to the lamp inside the lamp house for lamp replacement.	P.14

Setting Up

#### Operation Panel



	Part Name	Function	Reference Page
9	Power switch	To turn ON/OFF the power supply.	
10	Power receptacle	To supply power through the supplied power cord.	P.9
11)	Remote control terminal	To connect the wireless remote control or wired remote control (option).	P.9
12	Video-out terminal (C-video/S-video)	To connect this High Resolution Slide Film Presenter to a monitor TV equipped with a C-video/S-video input terminal.  Note: When S-video output is used, procure a connection cable (mini DIN 4P type) from the market.	P.9
13	Video-out terminal (Analog RGB)	To connect this High Resolution Slide Film Presenter to a monitor, projector or the like equipped with an RGB input terminal with the supplied analog RGB cable.	P.9
14)	Iris buttons	To adjust the brightness of the image.	P.11
15	Focus buttons	To adjust the focus.	P.11
16	Zoom buttons	To adjust the size of the image.	P.11
17)	Gamma selection switch	Gamma selection switch is used for adjusting the luminance shade with the device to connect RGB output to.	P.12
18)	Color control (switch/volume)	To adjust the color tone of the image.	P.12
19	Interval timer (switch/volume)	To perform the timer-controlled playback of the image or adjust the playback interval.	P.11

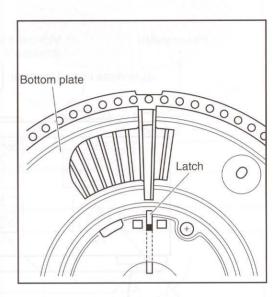
# 2 Setting Up

#### 2-1 Setup of the slide tray

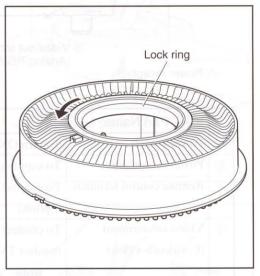
#### ■ Loading of the slides

1 Confirm that the bottom plate of the slide tray is latched.

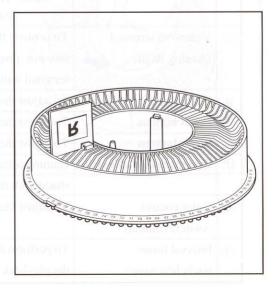
If the bottom plate is not latched, turn the bottom plate until it is latched.



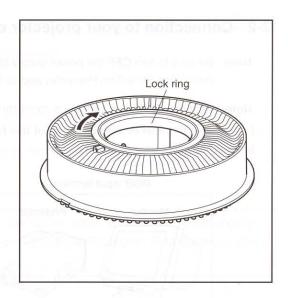
2 Turn the lock ring of the slide tray counterclockwise to remove the lock ring from the slide tray.



3 Load the slides into the slide tray slots one by one from the slide No. 1 in identification with the slide tray No. For the information how to put the slides into the slide tray slots, refer to the right-hand figure. The slide should be held upside-down with, for example, the letter "R" as seen in the right-hand figure.



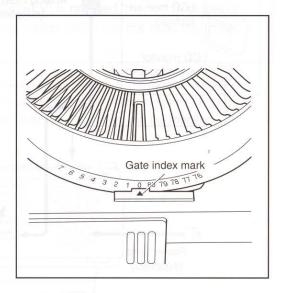
4 After loading all the slides into the slide tray slots, set the lock ring to the slide tray and turn the lock ring clockwise to lock it to the slide tray.



#### ■ Installation of the slide tray to this High Resolution Slide Film Presenter

1 Match the "0" position slot of the slide tray loaded with the slides with the gate index mark, and install the slide tray so that the entire slide tray can set on the center post.

**Note:** Do not use any damaged slide mount, or it may cause failure to this High Resolution Slide Film Presenter.

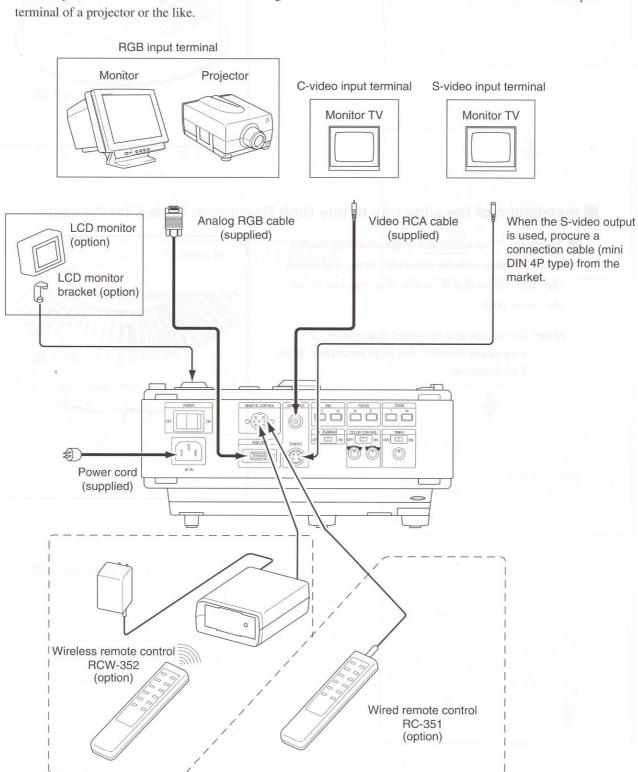


#### 2-2 Connection to your projector or monitor

Note: Be sure to turn OFF the power supply to all equipment before making any connections to protect the High Resolution Slide Film Presenter and all the connected equipment.

Note: Hold the cable plug part when connecting or disconnecting the cables.

C Each output terminal of various cables of this High Resolution Slide Film Presenter is connected to the input



# 3 Operation Procedures



- 1 Plug the power cord (supplied) into the power receptacle, and then the other end into the AC receptacle.
- 2 Install the slide tray on this High Resolution Slide Film Presenter.

Reference page

Setup of the slide tray

P.7

3 Connect the analog RGB cable (supplied) or the video RCA cable (supplied).

Reference page

Connection to your projector or monitor

P.9

4 Turn ON the power switch.



When the power supply is turned ON, the focus, zoom and iris are automatically set to the lastly used status memorized in this Slide Projector. (It takes them about 5 seconds to be stabilized.)

**5** Press the forward button [FWD] or reverse button [REV]. The slide tray turns, the slide mount drops into the gate, and the playback starts.



When the forward/reverse button [FWD]/[REV] is pressed, the image output is retained for a while. When the next slide mount drops into the gate, the image is switched.

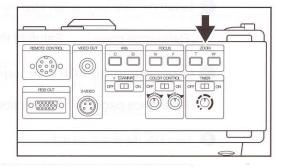
**Note:** If this High Resolution Slide Film Presenter is placed close to a monitor, the monitor screen may sway due to the magnetic field effect caused by the forward/reverse of the slide tray. Provide a distance of over 1 m between this High Resolution Slide Film Presenter and the monitor.



#### Zoom

Press the Zoom button [T] on the operation panel, and the image will gradually be enlarged.

Press the Zoom button [W] on the operation panel, and the image will gradually be reduced.



#### Focus

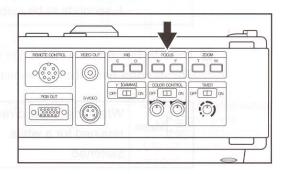
The focus button [N]/[F] is used for focusing.

When the focus button [N] is pressed, the focal point moves to the near side.

When the focus button [F] is pressed, the focal point moves to the far side.



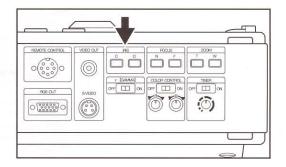
When the zoom button [T] is pressed to maximize the screen size, the focus can be easily adjusted.



#### Iris

When the iris button [C] is pressed, the image is gradually darkened.

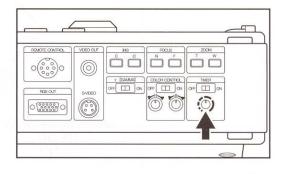
When the iris button [O] is pressed, the image is gradually brightened.



#### Interval timer

The interval timer volume is used to adjust the playback interval.

When the interval timer switch is turned ON, the image can be played back at an interval range from 1.5 seconds to 30 seconds.



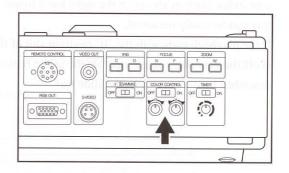


#### ■ White balance (Color control)

When the color control switch is turned ON and the volume [R] is turned clockwise, the image becomes red. When the volume [B] is turned clockwise, the image becomes blue.



When the color control switch is OFF, the color control is set with the white balance in the pre-adjusted condition.

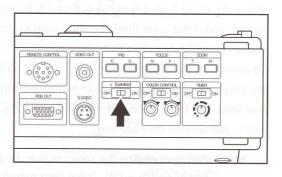


#### $\blacksquare$ Gamma ( $\gamma$ )

Gamma selection is used for adjusting the luminance shade with the device to connect RGB output to.

Generally, it is recommended to use ON when connecting to the CRT monitor, use OFF when connecting to the LCD projector.

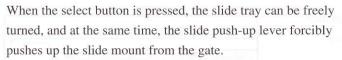
The luminance shade may not match depending on the type of projector. Use ON in such a case.



# **5** Removal of Slide Tray

When the "0" position slot of the slide tray matches with the gate index mark as shown in the right-hand figure, the slide tray can be easily removed.

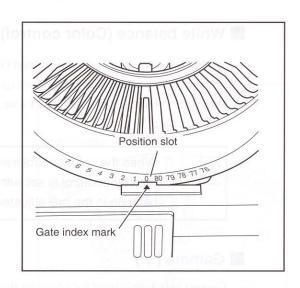
If the playback ends with the "0" position slot of the slide tray is off the gate index mark, operate the select button as described below to remove the slide tray.

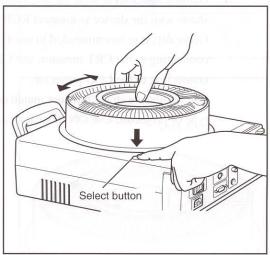


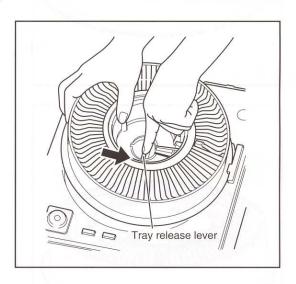
Therefore, in the above case or to remove the slide tray before the playback ends, press the select button and turn the slide tray until the "0" position slot matches with the gate index mark, and remove the slide tray.

**Note:** Before operating the select button, be sure that the power switch is ON. If the slide mount is caught inside the gate and the slide feeding is disabled, remove the slide tray by using the following procedure:

- 1 Put your finger into the groove of the center post and thrust the tray release lever. In this state, the slide tray can be removed.
- Remove the remaining slide mount from the gate.
- 3 Confirm that the lock ring of the slide tray is closed. Turn the slide tray over, and turn the bottom plate of the slide tray until it is latched.
- Remove the lock ring, confirm no damage on the slide mount, put back the slide in the slide tray, and set the lock ring.

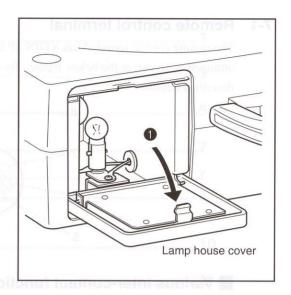




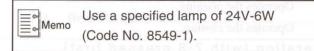


# 6 Lamp Replacement

1 Open the lamp house cover.



- 2 Turn the lamp counterclockwise to remove the lamp from the lamp socket.
- 3 Put a new lamp into the lamp socket, and turn it clockwise while pressing.



4 Close the lamp house cover.

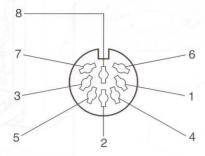


# Remote Control Terminal



#### 7-1 Remote control terminal

The remote control terminal has a DIN 8P connector sockets (DIN Standard No. 45326). The contacts are arranged as shown in the below figure. By short-circuiting contacts, various functions can be obtained as described below.



#### ■ Various inter-contact functions

Contact		Function
1-8	Forwards	
2-8	Reverses	
3-8	Zoom	Operates to the wide side.
4-8		Operates to the telephoto side.
5-8	Iris	Operates the opening.
6-8		Operates the closing.
Fu	unction key ope	ration (with 7-8 pressed first)
7-8/1-8	"0" position return	Forwards
7-8/2-8		Reverses
7-8/3-8	Focus	Operates to the far side.
7 - 8/4 - 8		Operates to the near side.
7-8/5-8	Lamp	ON
7 - 8/6 - 8		OFF
8	COMMON	

#### • "0" position return

The "0" position slot of the slide tray automatically returns to the gate index mark position by the above operation.

#### 7-2 Remote controls

The wired remote control RC-351 and the wireless remote control RCW-352 are available on option to TRS-35XG.

To connect the remote control to this High Resolution Slide Film Presenter, insert the plug of the remote control into the remote terminal of this High Resolution Slide Film Presenter.

For the usage of these remote controls, refer to the supplied respective instruction manuals.

Reference page

Connection to your projector or monitor

P.9

match.

Problem	Possible cause / countermeasure
The fan motor or the driving	The power switch is not turned ON.
motor does not start.	The power cord is not properly plugged in.
The slide tray does not turn.	The slide tray is not properly installed.
The slide mount does not drop in the gate.	The slide mount in the slide tray is damaged.
The lamp does not light up.	• The lamp is OFF (when RC-351/RCW-352 is used).
	<ul><li>The lamp is not properly installed in the lamp socket.</li><li>The lamp is burnt out.</li></ul>
Image does not appear.	The cable is not properly connected to the image output terminal.
	The iris is not in the proper position.
	(If the iris is too throttled, the image cannot be seen.)
	Only the white part (or black part) is viewed.
The image is shaking.	The distance to the monitor is too small.
	Increasing the distance may reduce this problem.
Luminance shade does not	Changing the gamma settings may reduce this problem.

If any problem still persists even after checking the above items, consult your nearest dealer or an authorized ELMO service center.

# Specifications

#### General

Power source AC120V 60Hz

Rated Current 0.8A

Outside dimensions  $284(W) \times 292(D) \times 126(H)$ 

Weight 6.8kgs (main body only)

#### ■ Mechanism

Film 35mm slide  $(2'' \times 2'')$  slide mount

Slide tray Circular tray

Max. number of slides 80

Slide feeding Gate-in type
Forward/Reverse feeding Provided
Remote feeding Provided

Interval timer Built-in (1.5-30 sec)

#### Optics

Lens F1.9 f=15mm $\sim 38$ mm zoom lens

Zoom magnification 2.5 times
Zoom Powered
Focusing Powered
Iris Powered

Light source 24V-6W incandescent bulb

#### Camera

Image pick-up element 1/3" progressive scan CCD

Shooting speed 15 flames/sec

Total picture elements 1077(H)×788(V) (approx. 850,000 pixels)

Effective picture element  $1024(H) \times 768(V)$ 

Resolution

Analog RGB output : More than 600 TV lines (horizontal)

More than 600 TV lines (vertical)

Video output : More than 400 TV lines (horizontal)

Image output

Analog RGB output : XGA 1024×768@75Hz VESA conformable

Composite-video output : NTSC conformable S-video output : NTSC conformable

Sync.system Internal

White balance Manual variable/fixed

Gamma selection Provided (ON/OFF switching)

#### Output terminal

Output terminal	Analog RGB output (mini Dsub-15P/75 $\Omega$ unbalanced) $\times$ 1	
	C-video output (RCA connector/75 Ω unbalanced)	$\times 1$
	S-video output (mini DIN 4P/75 Ω unbalanced)	$\times 1$
Ext. control terminal	Remote control terminal (DIN 8P type)	
	for wired remote control	$\times 1$
■ Supplied accessories		
	Power cord	$\times 1$
	Video RCA cable	$\times 1$
	Analog RGB cable	$\times 1$
	Instruction manual	$\times 1$

Design and specifications are subject to change without prior notice.

#### **WARNING:**

Unauthorized recording of any film for commercial purposes without permission from the copyright owners is prohibited by the Copyright Act.



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