



SALES NETWORK

SAMSUNG TECHWIN CO., LTD.
145-3, Sangdaewon 1-dong, Jungwon-gu,
Sungnam, Kyungki-do, Korea 462-703
TEL:+82-31-740-8142 FAX:+82-31-740-8144

SAMSUNG OPTO-ELECTRONICS AMERICA, INC.
ELECTRONIC IMAGING DIV.
40 Seaview Drive, Secaucus NJ07094, U.S.A
TEL:+1-201-902-0347 FAX:+1-201-902-0429

SAMSUNG TECHWIN MOSCOW OFFICE
LENNINGRADSDY PR-KT, 37A. KORP.14
RUSSIA, 125167, MOSCOW
TEL:+7-095-258-9296, 9298 FAX:+7-095-258-9297

<http://www.samsungpresenter.com>

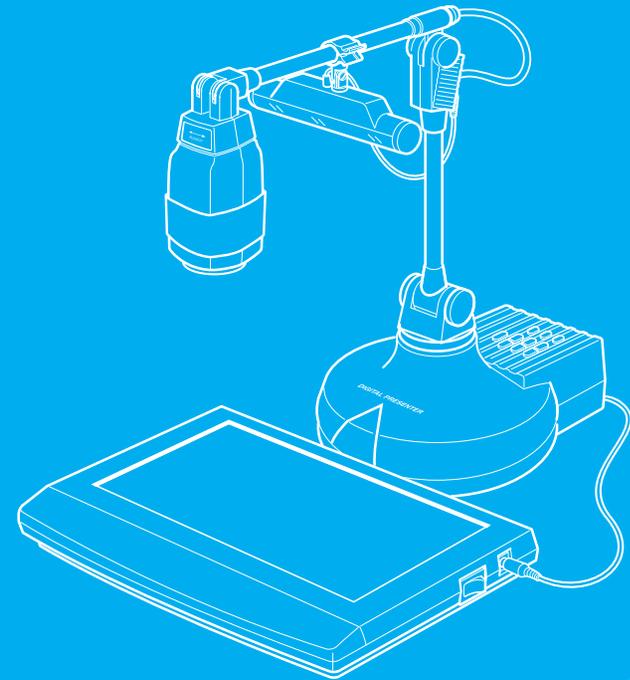
SAMSUNG OPTO-ELECTRONICS UK LTD.
Samsung House, 1000 Hillwood Drive
Hillwood Business Park Chertsey Surrey KT16 OPS
TEL:+44-(0)1932-455-308 FAX:+44-(0)1932-455-325

TIANJIN SAMSUNG OPTO-ELECTRONICS CO., LTD.
7 Pingchang Rd, Nankai Dist, Tianjin, PR China
Post Code: 300190
TEL:+86-22-2761-4599 FAX:+86-22-2769-7558

P/NO : 6806-0687-01A

SAMSUNG

ENGLISH



DIGITAL PRESENTER USER'S MANUAL

SDP-850 SDP-850DX

<http://www.samsungpresenter.com>

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SAFETY PRECAUTIONS

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Follow these safety instructions when setting up and using your Digital Presenter:

- Do not place the presenter on an unstable cart, stand, or table.
- Do not use the presenter near water or sources of heat.
- Use the type of power source indicated on the presenter. If you are not sure of the power available, consult your dealer or power company.
- Place the presenter near a wall outlet where the plug can be easily unplugged.
- Take the following precautions for the plug. Failure to comply with these precautions could result in sparks or fire. Do not insert the plug into an outlet with dust present. Insert the plug firmly into the outlet.
- Do not overload wall outlets, extension cords, or integral convenience receptacles. This can cause fire or electric shock.
- Do not place the presenter where the cord can be walked on. It may result in fraying or damage to the plug.
- Unplug the presenter from the wall outlet before cleaning. Use a dry cloth for cleaning. Do not use liquid or aerosol cleaners.
- Do not block the slots and openings in the presenter case. They provide ventilation and prevent the presenter from overheating. Do not put the presenter on a sofa, rug, or other soft surface or in a built-in installation, unless proper ventilation is provided.
- This presenter produces intense light from the head lamp. Do not stare directly into the lamp as possible. Eye damage could result. Be especially careful that children do not stare directly into the light.
- Never push objects of any kinds through cabinet slots. Never spill liquid of any kinds into the presenter.
- Except as specifically explained in this User's Manual, do not attempt to service this product yourself. Refer all servicing to qualified service personnel. Opening or removing covers may expose you to dangerous voltages and other hazards.
- Unplug the presenter during lightning storms or when it will not be used for extended periods.
- Do not place the presenter and remote controller on top of heat-producing equipment or in a heated place, such as a car.
- Unplug the presenter from the wall outlet and refer servicing to qualified service personnel under the following conditions:
 - When the power cord or plug is damaged or frayed.
 - If liquid has been spilled into the presenter, or it has been exposed to rain or water.
 - If it does not operate normally when you follow the operating instructions, or if it exhibits a distinct change in performance, indicating a need for service.
 - If it has been dropped or the cabinet has been damaged.
- Don't take the camera unit unfolded and turn to the leftmost or rightmost, or the presenter can fall upside down.

FCC Compliance Statement

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.

Thank you for purchasing this product. Your Digital Presenter can project a wide variety of items onto monitor or LCD projector or with simple handling. High resolution and definition ensures fine image quality.

Automatic focusing

When you press the automatic focusing button, a precise focusing on the object can be performed. If automatic focusing is inadequate, you can focus manually.

Free-angle camera head

The camera head can be freely rotated through 270° to right or left, 120° to top or bottom. You can see the surrounding objects and instruction as well as the data on the plate.

Adapter lens

It is used to project the documents and films (negative/positive) closely.

Easy flexible body

Each part can be bent and stretched so that you can project any type of objects easily.

Head lamp

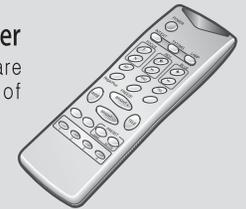
Lamp easily attachable

Menu display on the screen

When you control the functions by use of remote controller or control panel, the controlling status will be displayed on the screen.

Remote controller

All the functions are controlled by use of remote controller.

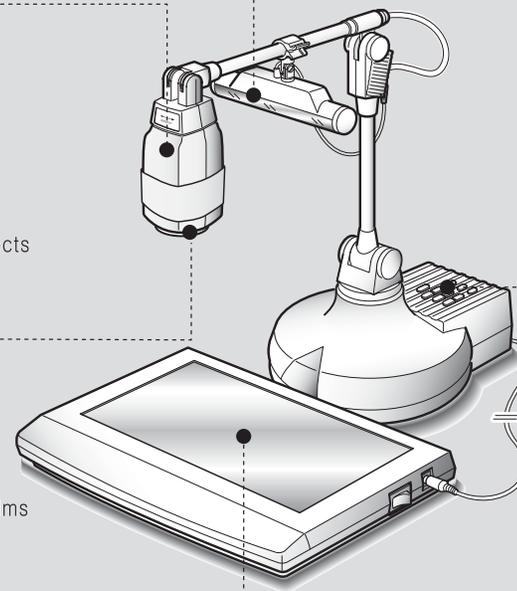


Control panel

You can control main functions using the buttons on control panel built in the main body.

Lightbox (Option)

This backlight illuminator is useful to project the slides or films. It is easily attached and removed



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WHERE THE DIGITAL PRESENTER IS NEEDED



Video conference

The Digital Presenter displays clearly the image of a real thing at hand as well as detailed data such as report, form, chart, etc. on the screen. Thus, the entire staffs concentrate on the same topic so you can manage the conference efficiently.



Medical or scientific research

You can use the image such as X-ray or slide as it is on your Digital Presenter.



Education field

You can utilize the presenter as the video aid which shows the printed materials like textbook, the visual data and even the products that the students made.



Presentation and Exhibition

It can create a powerful visual image by connecting to multi-vision at the new product presentation or exhibition.



Design preview

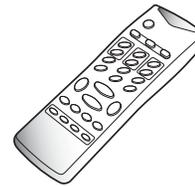
Your Digital Presenter may be effectively used to display the design artwork of a catalog or slide through imaging process.



CHECKING PARTS

Accessories Supplied

Remote controller

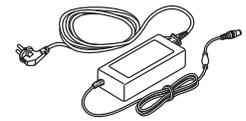


Adapter lens and lens cap



- They are attached to the main body at factory.

Adapter



D-SUB cable



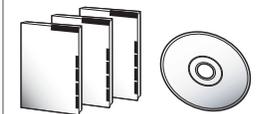
- Required to connect to monitor or LCD projector

USB cable (850DX)



- Required to connect to Computer

Manual



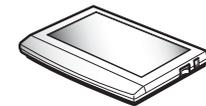
- S/W manual (850DX) • CD (850DX)
- User's manual
- RS-232C manual

Head lamp



- Lamp easily attachable

Light box (Option)

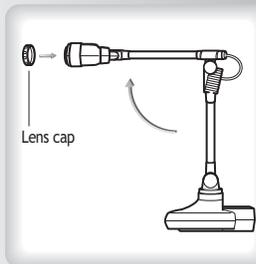


- Required to display a slide or film

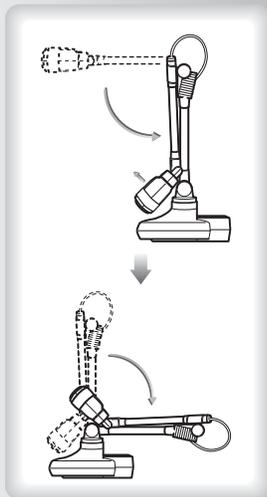
PRECAUTIONS AND STORAGE

Storage

1. Stretch the camera head as shown and cover the lens cap.

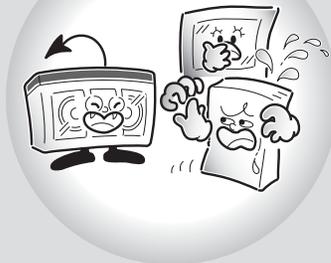


2. Fold the presenter as shown.



Safety Precautions

It is illegal to make a copy of a film, photograph, or book protected by the copyright without permission



Be careful not to drop.



Do not use benzene or thinner to clean the presenter.



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When moving the presenter, fold the presenter a little and hold as shown.



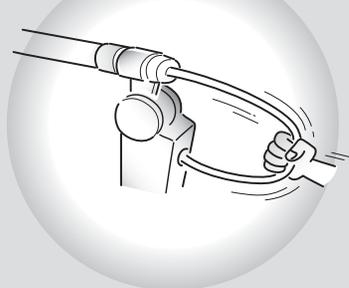
Do not put or drop a heavy thing on it.



When you don't use it for a long time, pull out the power cord and keep it with a cover.



Do not apply excessive force on the external cable.



When the presenter needs cleaning, wipe it with soft and dry cloth.

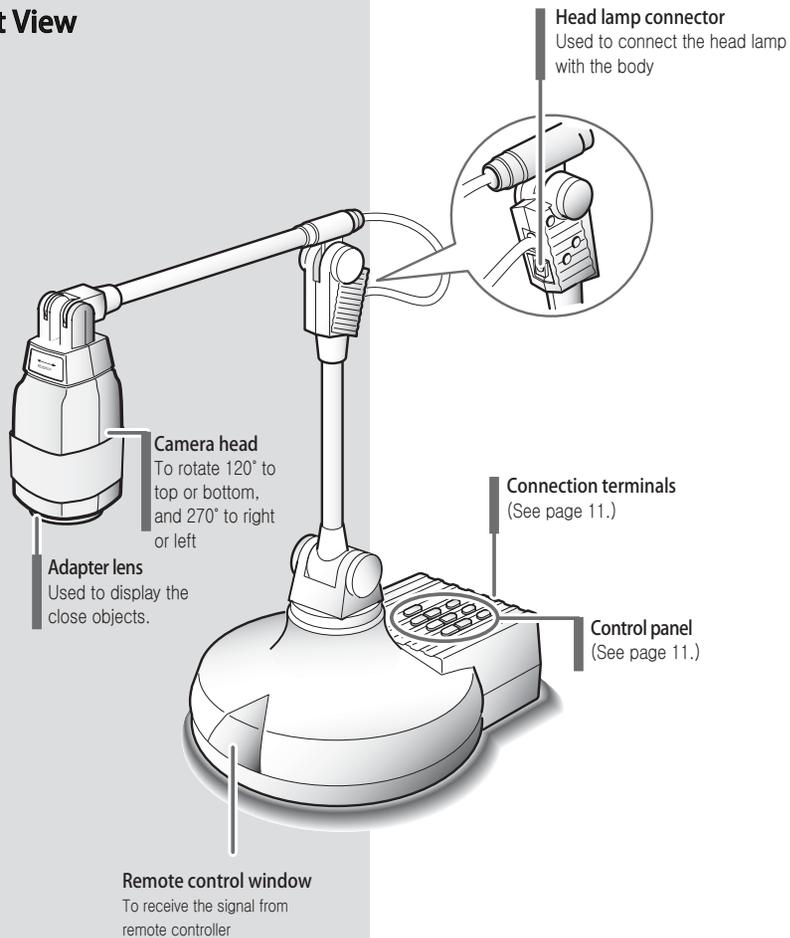


Do not use the presenter in a humidity place. Be careful not to spill a liquid on it.



NAME AND FUNCTION OF PART

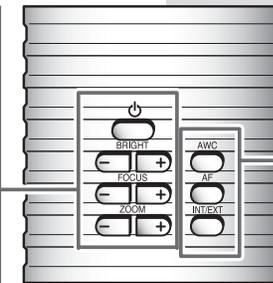
Front View



Control Panel

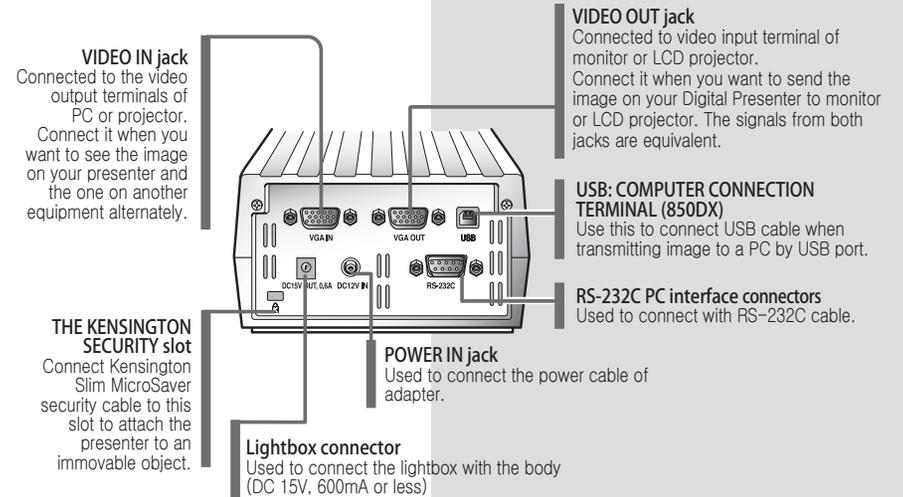
You can find the same buttons on the remote controller. These buttons perform the same functions.

- POWER button**
Used to turn power on and off
- BRIGHT(IRIS) +/- button**
Used to adjust the luminosity of image on the screen
- FOCUS +/- button**
Used to adjust the focus manually
- ZOOM +/- button**
Used to adjust the size of image on the screen



- AWC button**
Used to adjust the color (white balance) on the screen automatically
- AF button**
Used to set the focusing automatically
- INT/EXT button**
Used to select internal Image or external Image

Connectors at the back side



NAME AND FUNCTION OF PART

Remote Controller

FOCUS F/N button

Used to focus the image displayed on the Digital Presenter manually

AF button

Used to focus the image displayed on the Digital Presenter automatically

NEGA/POSI button

Negative (NEGA): To see the negative film
Positive (POSI): To see the general state or positive film

FREEZE button

Used to freeze the image on the screen

INT/EXT button

Used to select internal Image or external Image
Internal (INT): To see the image on this presenter
External (EXT): To see the image sent from another equipment through monitor (if connected to this presenter)

TXT/IMG button

Text Mode(TXT): To see the image with a lot of characters
Image Mode (IMG): To see the image like photo or picture

LAMP button

Used to turn the head lamp on and off

POWER button

Used to turn power on and off

AWC button

Used to adjust the screen color (white balance) automatically

RED +/- button and BLUE +/- button

Used to increase or decrease the red or blue color factor

FREQ button

Switches frequency of the presenter between 60Hz and 75Hz

WIDE button

Used to reduce the image size of an object

TELE button

Used to enlarge the image size of an object

BRIGHT + button

Used to make the screen brighter

BRIGHT - button

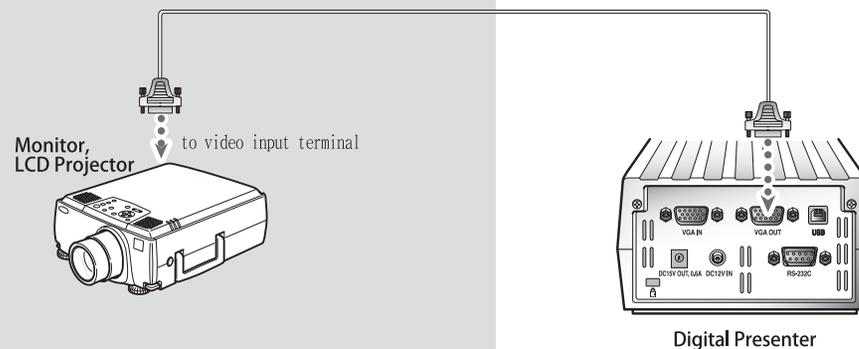
Used to make the screen darker

PRESET button

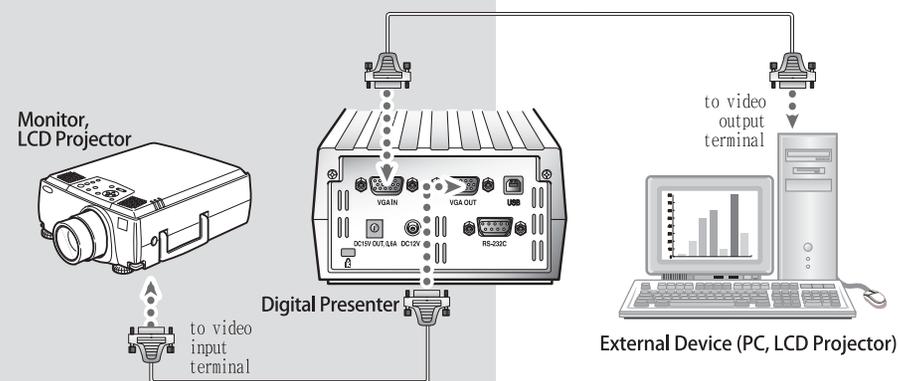
Used to save the current status (Zoom, Focus, Lamp, Color, etc.). When you use the Digital Presenter on another place, you need not to repeat the same procedures but the saved status will be automatically set only by pressing the [ACTIVE] button. Select the button (1~4) and press it within 4 seconds after pressing [SAVE/ACTIVE] button.

CONNECTION

To LCD Projector



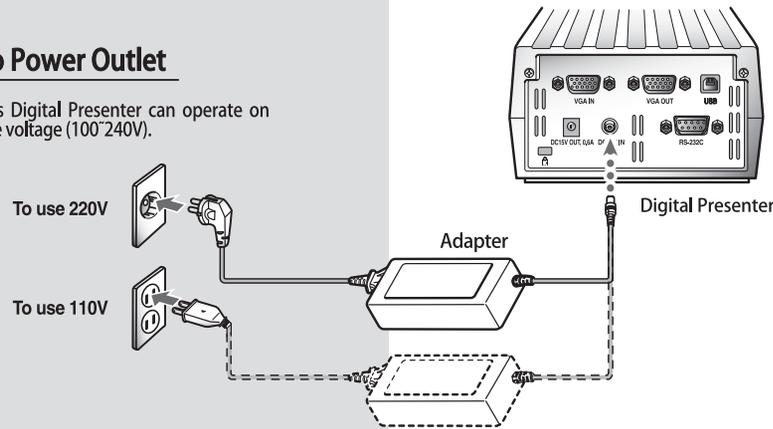
To LCD Projector and External Device



CONNECTION

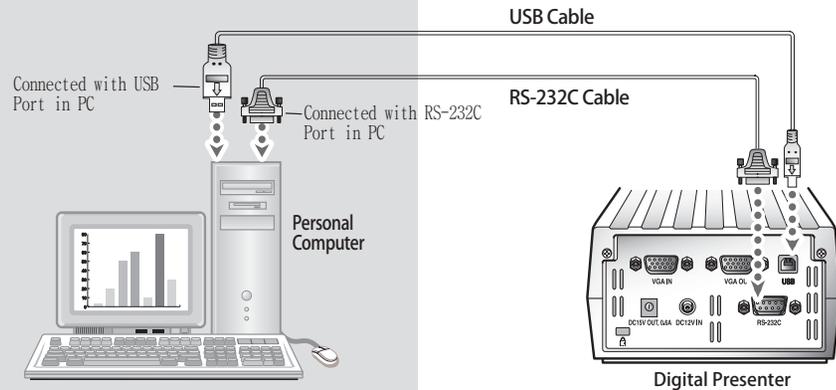
To Power Outlet

This Digital Presenter can operate on free voltage (100~240V).

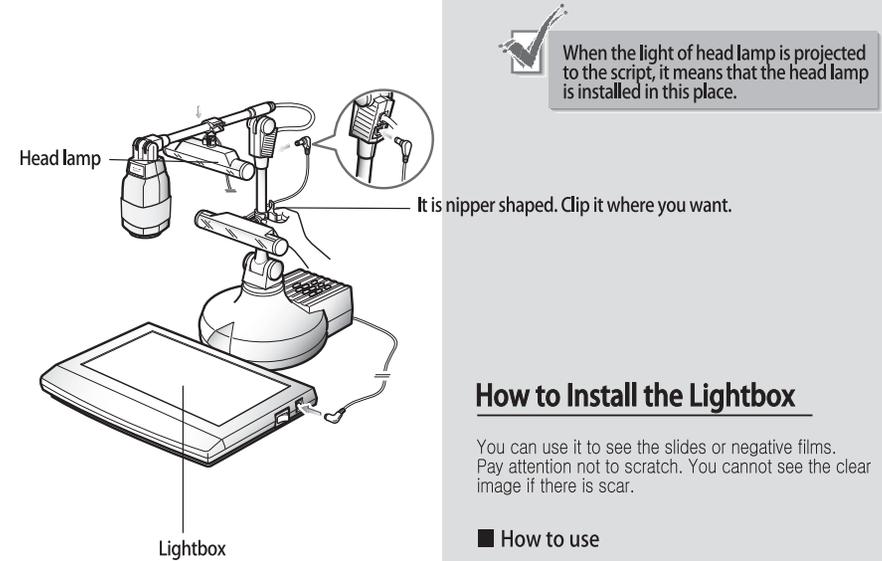


• RS-232C Communication cable is not supplied with this product.

Connecting to PC



How to Install the Head Lamp



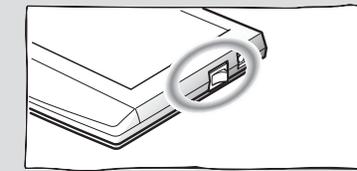
When the light of head lamp is projected to the script, it means that the head lamp is installed in this place.

How to Install the Lightbox

You can use it to see the slides or negative films. Pay attention not to scratch. You cannot see the clear image if there is scar.

How to use

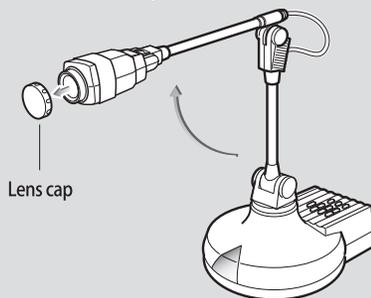
You can switch on and off the Lightbox by using the power switch at the side.



We recommend to connect to USB port which is attached on computer main board. (It can make troubles in extended front-side USB port or USB hub without power depending on computers.)

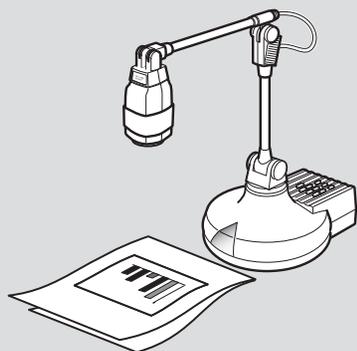
OPERATION

1. Stretch the camera head as shown and remove the lens cap.



- Make sure the adapter lens is properly attached. If not, attach it.

2. Make the camera lens facing the script.



- The image will be reversed if the camera lens is facing forward. In this case, adjust the camera head angle by turning to right or left.

Before Operating

- Make sure the Power is connected properly.
- Make sure the desired devices (Monitor, LCD Projector) are connected to output terminal. (See page 13)

3. Press the POWER button.



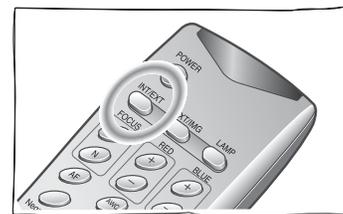
- You may press [POWER] button on the control panel.
- The message of "Please wait" will appear on the screen in a few seconds, and the projected image will be displayed on the presenter.

When the adapter lens is required

- Adapter lens is required when you project the copies, documents or films (positive/negative) on the desktop or lightbox. (Focusing distance with adapter lens attached: 240~360mm)
- Adapter lens may not be required if you use it for another purposes. (Focusing distance without adapter lens: 0.8m~∞)
- Make sure the adapter lens is attached and pay attention to the distance between body and object. You cannot focus on the object properly when the distance between object and camera is out of focusing range stated above.

Using Control Buttons

■ Choosing INT/EXT Signal



- Whenever you press the button, INT and EXT will appear alternately on the screen.

✓ If there is no external device connected to the presenter, EXT will not appear even though you press [INT/EXT] button.

- INT: To see the image through this presenter.
- EXT: To see the image from external device through Monitor or LCD projector connected with this presenter when external device is connected to the terminal of VGA IN in the Digital Presenter.

■ Turning LAMP On/Off

While the presenter is powered on, press the [LAMP] button to turn the head lamp on and off.



The light box is turned on as default. You can also use the switch of light box.

■ Frequency



- Switches frequency of the presenter between 60Hz and 75Hz.

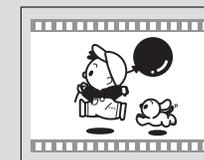
■ Switching Negative/Positive



- Whenever you press the button, NEGA and POSI will appear alternately on the screen.
- NEGA: To see the negative film
- POSI: To see the normal script or picture



▲ NEGATIVE



▲ POSITIVE

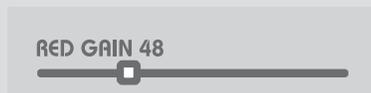
OPERATION

■ Adjusting Color



- If you press [AWC] button, color will be adjusted automatically. To obtain the best result, put the camera lens facing white paper and press [AWC] button.
- If you want fine adjust, press [RED+/-] or [BLUE+/-] button. Press [RED+/-] button to adjust the red factor, and [BLUE+/-] button to adjust the blue factor.

The color level will be displayed on the screen.



■ Image Freeze



- When you press [FREEZE] button, the image is held on the screen. It is convenient to replace the script or picture with next one. If you press [FREEZE] button again, the freezing mode will be released.

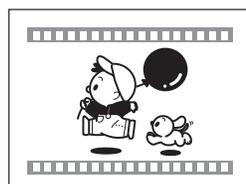
■ Zooming



- Press [WIDE] or [TELE] button on the remote controller or [ZOOM-] or [ZOOM+] on the control panel.



▲ WIDE (ZOOM -)



▲ TELE (ZOOM +)

■ Image Sharpness Control



- Press [TXT/IMG] button of remote controller to control the sharpness of the output image.
TEXT mode : For a material with mostly words.
IMAGE mode : For a material with mostly image.

■ Automatic Focus



- Automatic focusing
Press the [AF] button on the remote controller or [AF] button on the control panel.
- Manual focusing
Press the [FOCUS F/N] button on the remote control or [FOCUS +/-] button on the control panel.



- If the distance to object is out of range or if the lens is not attached properly, auto focusing may not work. At this time, check it again.
- Focusing distance with adapter lens attached : 240~360mm
- Focusing distance without adapter lens: 0.8m~∞



When the Auto focusing may not work properly

- Object in a dark area
- The background is too bright
- When some objects being close to the lens and others being far away at the same time.
- Object with little difference in brightness such as wall or air
- Repeated horizontal or vertical lines.
- Object standing behind the window is stained with spot or water drop
- Object reflecting a strong beam
- When the wire net or screen close to lens is piled up to the object in a distance

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■ Preset Button

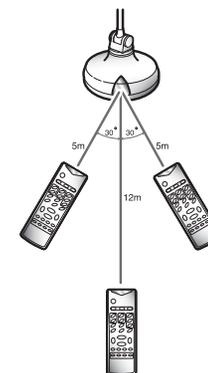
Used to save the current status (Zoom, Focus, Lamp, Color, etc.). When you use the Digital Presenter on another place, you need not to repeat the same procedures but the saved status will be automatically set only by pressing the [ACTIVE] button. Select the button (1~4) and press it within 4 seconds after pressing [SAVE/ACTIVE] button.

■ Adjusting Brightness



- Press [BRIGHT+] or [BRIGHT-] on remote controller or [BRIGHT(IRIS)+] or [BRIGHT(IRIS)-] on the control panel
- BRIGHT(IRIS)+ : When the image of object is dark
- BRIGHT(IRIS)- : When the image of object is bright

The operating range of remote controller



TROUBLESHOOTING

? Image is not displayed.

- ! Check the brightness is properly adjusted.
- ! Check the video cable is correctly connected with the video output terminal.

? Image is not focused on the screen

- ! Check the lens is properly attached to the camera.
- ! Press [AF (Auto Focus)] button for automatic focusing.
- ! Check the object is placed too close.

? The image of slide or negative film is not displayed.

- ! Check the lightbox turns on.
- ! Set the camera lens facing the film.
- ! Check the lens is properly attached.
- ! Check if you set the [NEGA/POS!] button correctly.

? Head lamp will not light up as soon as you press [LAMP] button.

- ! It is a normal because the built-in protection circuit is activated to protect the lamp circuit.

? The presenter will not operate by remote controller.

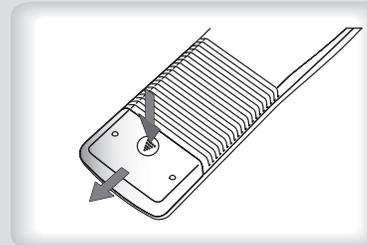
- ! Check the battery cells in the remote controller. If they are used up, replace new ones.

If you still have any problems, contact to your dealer to ask service.

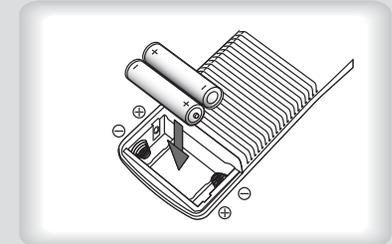


Installing or Replacing Battery on Remote Controller

1. Remove the cover of battery compartment at the back of remote controller.

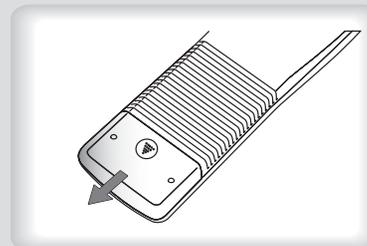


2. Insert the battery cells in the battery compartment as positive(+) ends contact the positive terminals.



• Battery cell type: AAA type 1.5V

3. Put the cover in place.



Caution

Random replacement of built-in battery by other types of batteries may cause explosion. Thus, the battery shall be replaced by the same battery. And the used batteries shall be disposed carefully because they can cause environment pollutions.

SPECIFICATIONS

MEMO

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ITEMS		SPECIFICATIONS
Optical System	Zoom Lens Shooting Area Zoom Focus Bright	F=1.5(Wide)-2.1(Tele), f=4.8-67.2, 14x Power Zoom 298 x 221 mm(max), 21.7 x 16.4 mm(min) 14x Power Zoom, Digital 3x Manual / Auto Manual / Auto
Light	Head Lamp Bottom Lamp	Attachable Light Box(Optional)
Video	CCD/Pixels Frame Rate Sync. System VGA Out White Balance Image Freeze Input Terminal Output Terminal Remote Control Input Selection On Screen Display Sharpness Preset Image transfer to computer	1/3" 850,000 pixel PS CCD / 1034(H) x 779(V) 20 Frame/sec Internal Sync. 1024 x 768(XGA) RGB color Manual / Auto(One Touch Type) Built-in VGA: 1 VGA: 1, RS-232C: 1, USB: 1(850DX) Available 2-channels(Internal: 1, External: 1) Available Available Available(up to 4) Available(USB: QUAR, HALF, FULL, SCREEN FULL)
Connection with PC	RS-232C USB Application software	Built-in(SET control) Built-in Viewer (for Windows 98, 98SE, ME, 2000 Professional, XP), TWAIN Driver (for windows), AVI Capture for Windows Mac Program(Mac OS 10.2)
General	Temperature Humidity Power Dimension	+5°C - +35°C 30% - 90% DC12V(Adapter for SDP-850 only, INPUT: AC 100V-240V Free. Voltage, 50/60Hz, OUTPUT:12V, 3.5A) In-use : 182(W) x492(H) x430(D) mm 7.17"(W) x19.37"(H) x16.93"(D) Storage : 182(W) x310(H) x500(D) mm

※ Specifications are subject to change without notice to enhance the quality and performance of product.



Correct Disposal of This Product (Waste Electrical & Electronic Equipment)

(Applicable in the European Union and other European countries with separate collection systems)

This marking shown on the product or its literature, indicates that it should not be disposed with other household wastes at the end of its working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate this from other types of wastes and recycle it responsibly to promote the sustainable reuse of material resources.

Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take this item for environmentally safe recycling. Business users should contact their supplier and check the terms and conditions of the purchase contract. This product should not be mixed with other commercial wastes for disposal.