INTRODUCTION

Before operating this projector, please read this manual carefully and completely. This manual will provide you with the basic instructions for operation of the projector. Installation, preliminary adjustments and procedures which require the opening of the projector and contact with electrical components should be performed by service personnel. For continued safe and reliable operation, use only cables supplied by the manufacturer for power. Adhere to all notes and warnings.

Features

- ♦ Multi scan circuit automatically locks on video, superdata from 15kHz to 61.lkHz (MultiSync 6PG) and graphics signals from 15kHz to 90kHz (MultiSync 9PG). You can interface video and high resolution RGB signals from various computers, workstations and graphics boards.
- ◆ 7" CRTs with deflection angle 90 degrees produce a detailed picture with a resolution of 1280 x 1024 pixels.
- ♦ Impregnated cathode used in the CRTs makes possible 800 lumens of light output.
- ECP lens produces an image with true color reproduction.
- ♦ AKB circuit provides a stable white balance.
- The wide band video circuit provides of 70MHz of Video Bandwidth.
- ♦ Display size can be altered to accommodate any picture size from 60" to 300" diagonal. In addition to ceiling mounting, floor, desk top and rear installations are possible.
- Digital point convergence provides high accuracy for a projecting fine graphic displays. (This can be purchased as an optional item for the MultiSync 6PG)
- Easy accessing of adjustment item with on-screen menus.
- ◆ Accepts up to 100 inputs with the ISS-60lO/ISS-60lOG.
- ♦ Video system compatible with NTSC, PAL, SECAM and NTSC 4.43.
- Up to 100 convergence patterns can be stored in the stand alone mode in digital memory.
- Quick copy convergence for fast easy set up from one preset signal.
- Built in self diagnostics for on sight troubleshooting.
- ♦ Built in "CROSS HAIR", "CROSS HATCH", "DOT", "WINDOW" and "H (FOCUS)" test patterns for accurate setup.
- ♦ Source information status display.
- The SEQUENCER function allows the projector to automatically select input signals one after another.

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Important Safeguards

The following are important safety instructions designed to ensure the long life of your projector and to prevent fire and shock hazards. Be sure to read these safety instructions carefully and follow all warnings given below.

Installation

Place the projector on a flat, level surface and in a dry area free from dust and moisture. Do not place the projector in direct sunlight, near stoves or other heat radiating appliances. Smoke, steam and exposure to direct sunlight could adversely affect the internal components. Avoid rough handling when moving your equipment as a strong shock could damage its internal components. If installing the projector on the ceiling, use only parts supplied by the manufacturer. Observe all instructions and warnings.

Power supply

The PG-6000 and PG-9000 projector are designed to operate on 120V 60H2, and the PG-6000G and PG-9000G are designed to operate on 220-240V 50Hz AC power supply. Make sure your local power supply matches these requirements before operation. Handle the power cord carefully and avoid excessive bending. A damaged cord may cause electric shock or fire. If the projector is not to be used for an extended period, remove the plug from the power outlet.

Cleaning

Unplug the projector from the power outlet before cleaning.

Clean the cabinet and front panel periodically with a soft cloth. If heavily stained, use a mild detergent solution. Never use strong detergents or solvents such as alcohol or thinner to clean your projector.

Lens cleaning: Avoid touching the lens surfaces.

Special coating is applied to the lens surfaces.

Consult your dealer for lens cleaning.

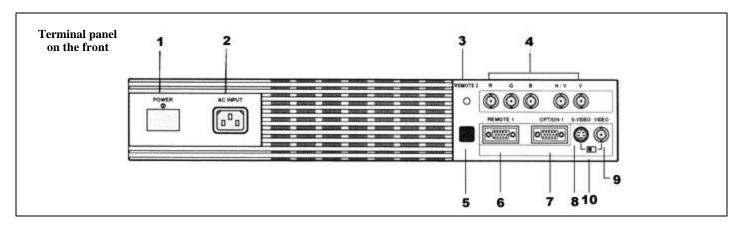
Fire and Shock Precautions

Adequate ventilation must be provided to prevent heat build-up inside the projector. Make sure the ventilation holes are unobstructed.

Keep the inside of the projector free from foreign objects, such as paper clips, nails, paper, etc. Do not attempt to retrieve such objects yourself or insert metal objects such as wire and screw-drivers inside the projector. If a hazardous object falls inside the projector, unplug it immediately and call a qualified electrical repairman for removal. Do not set liquids on top of the projector.

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PART NAMES AND FUNCTIONS



1. POWER Switch (Main power)

Press to turn the main power on. The STANDBY indicator is lit.

In this condition you can start up the projector by pressing the POWER ON button on the remote control or the POWER button on the rear panel. Press again to turn the main power off.

NOTE: When turning off the main power, first return the projector to the standby condition by pressing the POWER OFF button on the remote control or the POWER button on the rear panel and then turn off the main POWER switch. These procedures are to protect your projector and the connected equipment.

2. AC INPUT

Connect the supplied power cord here.

3. **REMOTE 2 Jack**

When the supplied full function remote control is used in the wired condition connect the supplied remote cable here. The wireless control does not work when the plug of the remote cable is inserted here.

4. RGB H/V and V Input Terminals

Connect R, G, B, H (Horizontal sync) and V (Vertical sync) outputs of the external equipment (such as the Switcher). If using a component with a combined sync (SYNC) output, connect it to the H/V terminal.

5. Remote Sensor

Receives the signal from the supplied remote control when used in the wireless condition.

6. **REMOTE 1 Terminal**

This terminal allows external control of the projector from either the Switcher or from an external control. When the Switcher is used, connect to the REMOTE 1 terminal on the back of the Switcher.

NOTE: Only the ISS-6010/ISS-6010G is compatible with this projector.

7. **OPTION 1 Input Terminal**

For future system expansion.

8. S-VIDEO Input Terminal

Connect to the S-video output of the external equipment such as VCR with an S-video output.

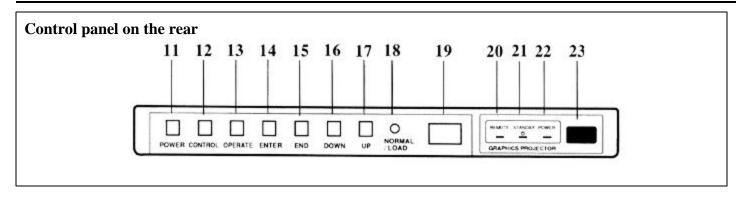
9. VIDEO Input Terminal

Connect to the video output of the external equipment such as video equipment.

10. S-VIDEO/ VIDEO Select Switch

Selects either the S-VIDEO input or the VIDEO input terminal.

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11. POWER Button

Turns the projector on or off when the projector is in the standby condition (Main Power switch on and Standby indicator lit).

12. CONTROL Button

Used with other buttons. similar to a shift key on a typewriter or computer. This is the same with the CTL button on the remote control.

13. OPERATE Button

Press to display the OPERATE menu. You can select the following adjustment functions from this menu.

1/PICTURE 4/INPUT SELECT 2/POSITION 5/SOURCE INFO

3/SOUND 6/STATIC

NOTE: The SOUND item is not included in the "OPERATE" menu on the stand alone mode.

14. ENTER Button

Executes menu selection and switches to selected input.

15. END Button

Exits t adjustment mode.

16. **DOWN Button**

Used to decrease the selected adjustment level or move the cursor downward. When used with the CONTROL button, the DOWN button works as the CURSOR < button on the remote control unit.

17. **UP Button**

Used to increase the selected adjustment level or move the cursor upward. When used with the CONTROL button, the UP button works as the CURSOR > button on the remote control unit.

18. NORMAL/LOAD Button

Returns the adjustment data to the standard level (NORMAL function).

Pressing this button with holding down the CONTROL button returns the adjustment data to the last stored level (LOAD function).

19. Select Counter

Displays "00" in normal operation.

20. REMOTE Indicator

Flashes when the projector receives a signal from the remote control.

21. STANDBY Indicator

Lights up when the projector's main POWER switch is on. Flashes when the projector might not be connected with the Switcher correctly or when the Switcher might be turned off.

22. **POWER Indicator**

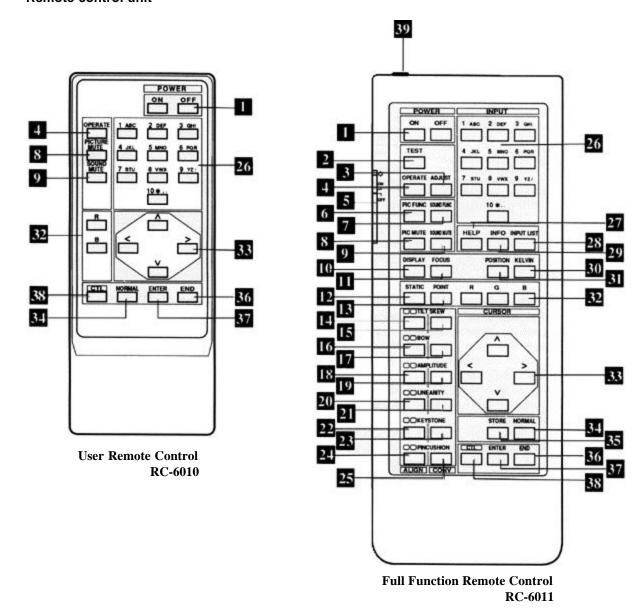
Lights up when the projector is turned on.

23. Remote Sensor

Receives the signal from the supplied remote control when used in the wireless condition.

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Remote control unit



NOTE: The full function remote control is designed for setup adjustment. Use the user remote control for normal operation.

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PART NAMES AND FUNCTIONS

1. POWER Buttons (ON/OFF)

Press the ON button to turn the projector on when the projector is in the standby condition. (STANDBY indicator lit). Press the OFF button to return the projector to the standby condition.

2. TEST Button

Press to display the "TEST PATTERN" menu from which you can select the preferred test pattern.

3. ADJUST Button

Press to display the "ADJUST" menu.

4. OPERATE Button

Press to display the "OPERATE" menu.

5. Backlight Switch

Turns the backlight on and off.

6. PIC FUNC Button

Press to display the picture adjustment screen.

NOTE: Some function items will not be used depending on the input video signal.

7. SOUND FUNC Button

Press to display the VOLUME adjustment screen. You can adjust the volume of the ISS-6010/ISS-6010G Switcher.

8. PICTURE (PIC) MUTE Button

Press to mute the picture. Press again to return the picture.

9. SOUND MUTE Button

Press to mute the sound. Press again to return the sound.

NOTE: This works only with the ISS-6010/ISS-6010G.

10. DISPLAY Button

Press to turn on or off the ON-SCREEN display.

11. FOCUS Button

Press to enter the FOCUS mode.

12. STATIC Button

Press to enter the STATIC mode. You can adjust the static convergence.

13. POINT Button (when the point convergence board installed)

Press to enter the POINT mode. You can adjust the point convergence.

14. TILT SKEW ALIGN Button

Press to enter the TILTSKEW ALIGNMENT mode. You can adjust the tilt and the skew of the projected image.

15. TILT SKEW CONV Button

Press to enter the TILTSKEW CONVERGENCE mode. You can adjust the tilt and the skew convergence for the red or blue CRT.

16. BOW ALIGN Button

Press to enter the BOW ALIGNMENT mode. You can adjust the horizontal and the vertical bow of the projected image.

17. BOW CONV Button

Press to enter the BOW CONVERGENCE mode. You can adjust the horizontal and the vertical bow convergence for the red or blue CRT.

18. AMPLITUDE ALIGN Button

Press to enter the AMPLITUDE ALIGNMENT mode. You can adjust the horizontal width and the vertical height of the projected image.

19. AMPLITUDE CONV Button

Press to enter the AMPLITUDE CONVERGENCE mode. You can adjust the horizontal and the vertical convergence amplitude for the red or blue CRT.

20. LINEARITY ALIGN Button

Press to enter the LINEARITY ALIGNMENT mode. You can adjust the horizontal and the vertical linearity of the projected image.

21. LINEARITY CONV Button

Press to enter the LINEARITY CONVERGENCE mode. You can adjust the horizontal and the vertical linearity convergence for the red or blue CRT. Pressing with CTL button controls the LINEAR-BALANCE convergence.

22. KEY STONE ALIGN Button

Press to enter the KEY STONE ALIGNMENT mode. You can adjust the horizontal and the vertical keystone of the projected image. Pressing with CTL button controls the KEY-BALANCE alignment.

23. KEY STONE CONV Button

Press to enter the KEY-STONE CONVERGENCE mode. You can adjust the horizontal and the vertical key-stone convergence for the red or blue CRT. Pressing with CTL button controls the KEY-BALANCE convergence.

24. PIN CUSHION ALIGN Button

Press to enter the PIN-CUSHION ALIGNMENT mode. You can adjust the horizontal and the vertical pin-cushion of the projected image. Pressing with CTL button controls the PIN-BALANCE alignment.

25. PIN CUSHION CONV Button

Press to enter the PIN-CUSHION CONVERGENCE mode. You can adjust the horizontal and the vertical pin-cushion convergence for the red or blue CRT. Pressing with CTL button controls the PIN-BALANCE convergence.

26. INPUT Button

Selects menus and switches input signals.

27. HELP Button

Press to display the explanation of the current selected function and available functions.

28. INPUT LIST Button

Press to display the list of the recorded input signals.

29. INFO Button

Press to display the various parameters and settings of the currently displayed image.

30. KELVIN Button

Press to enter the WHITE BALANCE mode. You can adjust the white and the black level.

31. POSITION Button

Press to enter the position mode. You can adjust the horizontal and vertical position and horizontal and vertical blanking.

32. R, G and B Buttons

Turn each CRT beam on and off separately. When using with the CTL button, you can select the CRT to be adjusted during convergence and center focus adjustments. Note that the G button is only on the full function remote control.

33. CURSOR Buttons

Used for increasing and decreasing control levels, cursor movement and convergence adjustments.

34. NORMAL Button

Returns the adjustments level for each VIDEO or RGB input signal to the standard level. When pressed once, the confirmation message will be displayed. When "YES" is selected and ENTER is pressed, the data will be returned to the standard level. Pressing with CTL returns the adjustment data to the last stored level (LOAD function).

35. STORE Button

Memorizes the adjustments setting of each VIDEO or RGB input signal separately. When pressed once, the confirmation message "STORE?" will be displayed. When selecting "YES" and ENTER is pressed, the data will be stored in memory.

36. END Button

Ends the adjustment mode.

37. ENTER Button

Executes menu selection and switches to selected input.

38. CTL Button

Used with other buttons, similar to a shift key on a typewriter or computer.

39. Remote Control Jack

Insert the plug of the supplied remote cable here when the full function remote control is used in the wired condition.

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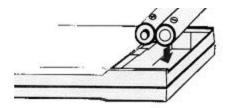
Battery installation and replacement

User remote control

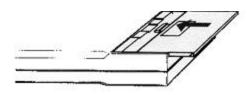
1. Press down on the battery compartment cover and slide the cover in the direction of the arrow.



2. Install the two new batteries, making sure that their polarity matches the (+) (-) diagrams inside the battery compartment.



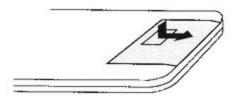
3. Close the battery compartment cover.



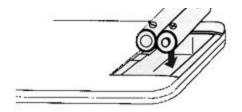
NOTE: The remote control is powered by two 1.5V AA batteries.

Full function remote control

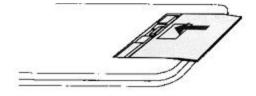
1. Press down on the battery compartment cover and slide the cover in the direction of the arrow.



2. Install the two new batteries, making sure that their polarity matches the (+) (-) diagrams inside the battery compartment.



3. Close the battery compartment cover.



Remote control cautions

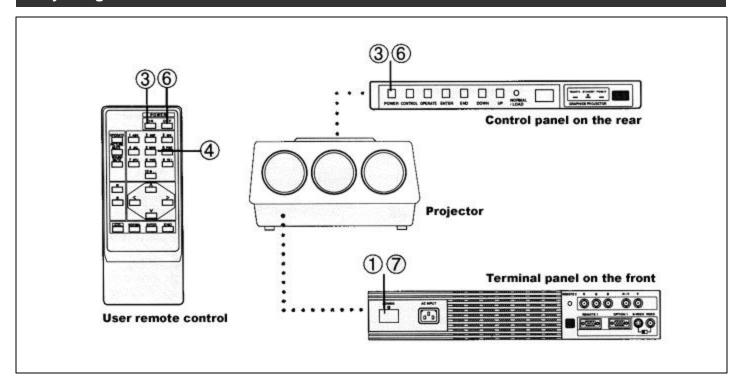
Use the remote control within the valid operating range within a distance of about 7m (23 ft.) and at **30** degrees angle left and right.

Handling remote control and batteries

- Do not drop or mishandle the remote.
- Do not get the remote wet. If the remote gets wet, wipe it dry immediately.
- Avoid heat and humidity.
- When not using the remote for a long period, remove the batteries.
- Do not use new and old batteries together, or use different types together.
- Do not take apart the batteries, heat them, or throw them into a fire.
- Avoid using the full function remote control as wireless with the backlight switch ON for an extended period of time. This can cause short battery life.

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Projecting the Picture



To project the picture source, proceed as follows:

- 1) Turn on the main power of the projector.
 - Press the POWER switch on the front terminal.
- 2) Turn on the connected equipment's power.
- 3) Turn on the power.
 - Press the POWER ON button on the remote control or the POWER button on the rear panel.
- 4) Select an input signal source by pressing one of the ten INPUT buttons on the remote control. You can also select a signal from the "INPUT SELECT" list.
 - See page 20 "INPUT SELECTION" for more details.
- 5) Adjust the picture and sound.
 - See pages 14 through 18 for more details.

NOTE: The volume function works only with the ISS-6010/ISS-6010G.

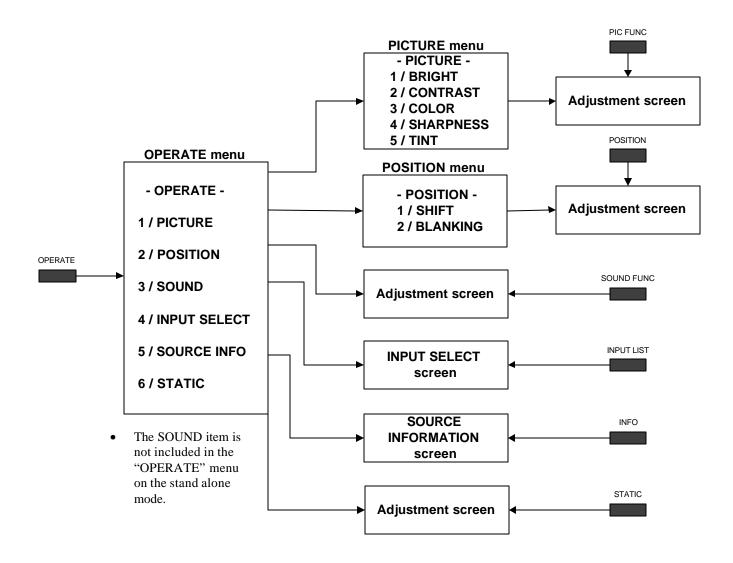
- 6) To turn off the power, press the POWER OFF button on the remote control or the POWER button on the rear panel.
- 7) Press the POWER switch on the front terminal to turn off the main power of the projector.
- 8) Last, turn off the connected equipment power.

Displaying the Menu and Adjustment Screen

You can easily access your desired screen by selecting menus. Depending upon button selection, your desired screen will be displayed as shown below:

■ OPERATE menu

NOTE: Examples of the screen display are only when used with the ISS-6010/M-601OG.



• The PIC FUNC, POSITION, SOUND FUNC, INPUT LIST, INFO and STATIC buttons are on the full function remote control only.

CAUTION: Do not display a bright and still picture for longer than 20 minutes. This could damage the CRTs.

NOTE: The explanation of the operation on the following pages is for use with the remote control. You can also operate the projector using the buttons on the control panel of the projector.

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Picture Adjustment

To adjust the picture for each input, proceed as follows:

NOTE: The Color, Sharpness, and Tint controls are not included in the "PICTURE" menu for RGB signal. The Tint control is not included in the "PICTURE" menu for SECAM/PAL signal.

- 1. Press the OPERATE button.
 - The "OPERATE" menu will be displayed.
- 2. Use the CURSOR ▲or ▼ button to highlight the "lPICTURE" and press the ENTER button to display the "PICTURE" menu. You can also select the "PICTURE" menu directly by pressing the INPUT "1" button.
- 3. Use the CURSOR ▲ or ▼button to select a picture function and then press the ENTER button. You can also select an item directly by pressing an Input button.
 - The picture adjustment screen will be displayed.

Items to select

- BRIGHT (Bright control)
- CONTRAST (Contrast control)
- COLOR (Color intensity control) SHARPNESS (Picture detail control)
- TINT (Red and green values control)

NOTE: You can enter the picture adjustment screen directly using the PIC FUNC button on the full function remote control. Each time you press the PIC FUNC button, the picture functions will rotate as follows:

CONTRAST COLOR SHARPNESS TINT BRIGHT **←**

- 4. Use the CURSOR buttons to adjust a picture to your preference.
 - The CURSOR ▶ or ▲ button increases the level.
 - The CURSOR \triangleleft or \triangledown button decreases the level.
- 5. To end this adjustment, press the END button to display the "STORE?" screen.
 - Whenever the END button is pressed, the screen will be changed in this order:
 - "PICTURE" menu → "OPERATE" menu → "STORE?" menu
 - If the picture adjustments have not been changed, the "STORE?" menu will not be displayed.

- OPERATE -1 / PICTURE

2 / POSITION

3 / SOUND

4 / INPUT SELECT

5 / SOURCE INFO

6 / STATIC

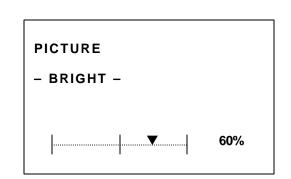
- PICTURE -1 / BRIGHT

2 / CONTRAST

3 / COLOR

4 / SHARPNESS

5 / TINT



- 6. Use the CURSOR ◀ or ▶ button to select either "YES" or "NO" and press the ENTER button.
 - Will be returned to the source screen.

STORE ? YES NO

Items to select

- YES.....The data will be stored
- NO.....The data will not be stored
 - To exit this mode without storing the current status, select "NO". If the current status is not stored due to other button operation, the "STORE?" menu will be displayed.

Position Adjustment

Adjust the position and screen area Proceed as follows:

- 1. Press the OPERATE button.
 - The "operate" menu will be displayed
- 2. Use the CURSOR ▲or ▼ button to highlight the "2/POSITION" line. Press the ENTER button to display the "POSITION' menu. You can also select the "2/POSITION" menu directly by pressing the INPUT "2" button.
- 3. Use the CURSOR ▲ or ▼ button to select either " or "BLANKING" and press the ENTER button. You can also select the item directly by pressing the INPUT "1" or "2 button.
 - The selected adjustment screen will be displayed.

Items to select

- SHIFT (Position of the picture)
- BLANKING (Screen area)

NOTE: You can enter the position adjustment screen directly using the POSITION button on the full function remote control. The POSITION button will toggle between the SHIFT and BLANKING.

4. Adjust the position or screen area.

When selecting SHIFT:

Use the CURSOR buttons to move the position of the picture.

- Pressing ◀ or ▶ moves the picture left or right.
- Pressing ▲ or ▼ moves the picture up or down.

NOTE: Adjust to position the picture in the center of the raster. Over shift-adjusting to the top of the raster may cause the top of the picture to curve.

- OPERATE 1 / PICTURE
2 / POSITION
3 / SOUND
4 / INPUT SELECT
5 / SOURCE INFO
6 / STATIC

- POSITION -1 / SHIFT 2 / BLANKING



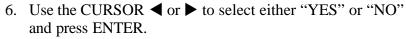
When selecting BLANKING:

- 1) Hold down the CTL button and press CURSOR buttons to choose the right, left, top or bottom edge.
- The marker on the selected side will turn to a solid color.
- 2) Adjust the blanking using the CURSOR buttons.
 - Top (U) and Right (R)----- Pressing ▲or ▶ increases.
 Pressing ▼or ◀ decreases.
 - Bottom (D) and Left (L)-- Pressing ▼ or ◀ increases.

Pressing ▲ or ▶ decreases.

- 5. To end this adjustment, press the END button to display the "STORE" menu.
 - Whenever the END button is pressed, the screen will be changed in this order.

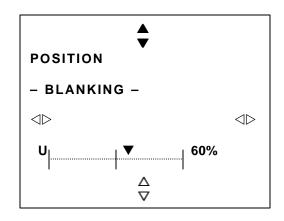
"POSITION" menu → "OPERATE" menu → "STORE?" menu

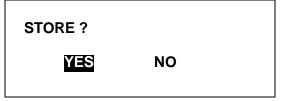


- If the position adjustments have not been changed, the "STORE" menu will not be displayed.
- Will be returned to the source screen.

Items to select • YES.....The data will be stored • NO.....The data will not be stored

To exit this mode without storing the current status, select "NO".
 If the current status is not stored due to other button operation, the "STORE" menu will be displayed.





Sound Adjustment (only when used with the ISS-6010/ISS-6010G)

Adjust the volume to your preference.

Proceed as follows:

- 1. Press the OPERATE button.
 - The "OPERATE" menu will be displayed.
- 2. Use the CURSOR ▲ or ▼ button to highlight the "3/ SOUND" line and press the ENTER button to display the "VOLUME" screen. You can also select the "VOLUME" screen directly by pressing the INPUT "3" button.

NOTE: You can enter the VOLUME adjustment screen directly using the SOUND FUNC button on the full function remote control.

- 3. Use the CURSOR buttons to adjust the volume.
 - The CURSOR ▶ or ▲ button increases the volume.
 The CURSOR ◀ or ▼ button decreases the volume.
- 4. To end this adjustments press the END button to display the "STORE?" menu.
 - Whenever the END button is pressed, the screen will be changed in this order:

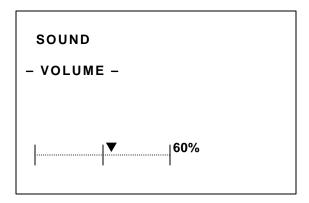
"OPERATE" menu → "STORE?" menu

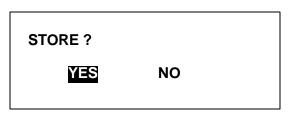
- 5. Use the CURSOR ◀ or ▶ button to select either "YES" or "NO' and press the ENTER button.
 - If the VOLUME data has not been changed, the "STORE?" menu will not be displayed.



- YES.....The data will be stored
- NO.....The data will not be stored
 - To exit this mode without storing the current status, select "No". If the current status is not stored due to other button operation, the "STORE?" menu will be displayed.

- OPERATE 1 / PICTURE
2 / POSITION
3 / SOUND
4 / INPUT SELECT
5 / SOURCE INFO
6 / STATIC





Input Selection

You can switch from one input to any other input signal Proceed as follows:

- 1. Press the OPERATE button.
 - The "OPERATE" menu will be displayed.
- 2. Use the CURSOR ▲ or ▼ button to highlight the "4/INPUT SELECT" and press ENTER to display the "INPUT SELECT list. You can also select the "INPUT SELECT" list directly by pressing the INPUT "4" button.

NOTE: You can display the "INPUT SELECT" list directly using the INPUT LIST button on the full function remote control.

3. Use the CURSOR ▲or ▼ button to highlight the signal to be switched to and press ENTER to change to the selected input signal.

NOTE: To advance to the next page or to the previous page, hold down the CTL button then press the CURSOR ▲ or ▼ button. To directly access a page, hold down the CTL button then any one of the INPUT buttons.

- 4. To end the INPUT SELECT list, press the END button.
 - Whenever the END button is pressed, the screen will be changed in this order:

"OPERATE" men" Source screen

Continued on the next page.

- OPERATE 1 / PICTURE
2 / POSITION
3 / SOUND
4 / INPUT SELECT
5 / SOURCE INFO
6 / STATIC

	P01	INPUT SELECT		
ISS-6010		010	SW 2 LEVEL	
	NO	INPUT	NAME	DATE
	01	M-01 S-01	VTR-1	12/01/92
	02	M-01 S-02	VTR-2	12/03/92
	03	M-01 S-03	VIDEO-1	12/11/92
	04	M-01 S-04	VTR-3	12/24/92
	05	M-01 S-05	RGB-1	12/25/92
	06	M-01 S-06	VIDEO-2	12/30/92
	07	M-01 S-07	VIDEO-3	12/31/92
	80	M-01 S-08	NTSC	01/15/93
	09	M-01 S-09	PAL	01/16/93
	10	M-01 S-10	SECAM	01/29/93

NOTE:

• While you are viewing a source screen, you can also select the input signal directly by pressing the INPUT "1" through "10" button. In this case INPUT buttons function as follows:

When using the projector in stand atone operation:

INPUT 1 Changed to the VIDEO input or S-VIDEO input on the projector

INPUT 2 — Changed to the RGB input on the projector

When using the projector with the ISS_6010/ISS-6010G:

INPUT 1 through 10 — Changed to the corresponding number slot of the ISS-6010/ ISS-6010G

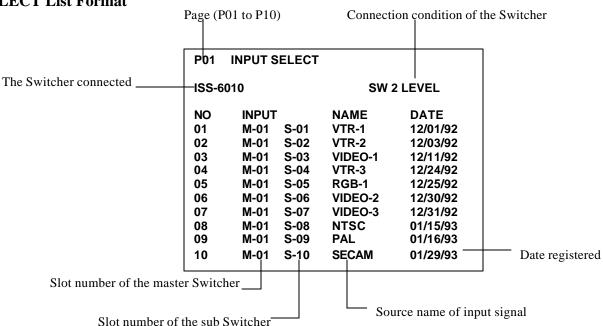
When using the projector with two ISS-6010/ISS-6010G or more:

To switch to another input signal, enter the master slot number, then the slave slot number by using INPUT buttons and press the ENTER button.

For example: If you want to select a signal from the no. 3 slot of the slave Switcher which is connected to the no. 2 slot of the master Switcher, first press the INPUT "2" button, then the INPUT "3" button and finally press the ENTER button.

When pressing any one of the INPUT buttons to directly access one signal among two or more of the same signals, the projector will output the signal listed in the upper line automatically. To select the one listed in the lower line, use the CURSOR ▲ or ▼ button and press the ENTER button.

INPUT SELECT List Format



Source Information

This is for viewing the signal information and the current status of various setting.

Proceed as follows:

- 1. Press the OPERATE button.
 - The "OPERATE" menu will be displayed.
- 2. Use the CURSOR ▲or ▼ button to highlight the "5/
 SOURCE INFO" line and press the ENTER button to display
 the "SOURCE INFORMATION" screen. You can also select
 the "SOURCE INFORMATION" screen directly by pressing
 the INPUT "5" button.

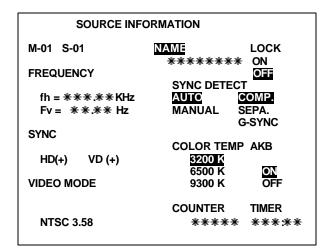
NOTE: You can enter the "SOURCE INFORMATION" screen directly using the INFO button on the full function remote control.

- 3. To end the "SOURCE INFORMATION" screen, press the END button.
 - Whenever the END button is pressed, the screen will be changed in this order:

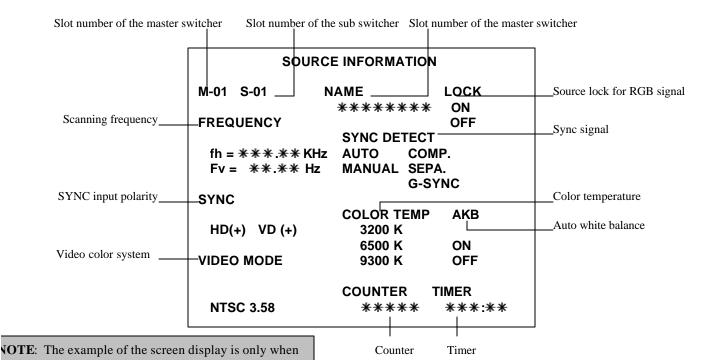
"OPERATE" menu → Source screen

NOTE: You can not change NAME, LOCK, SYNC, DETECT, COLOR TEMP, AKB, COUNTER and TIMER in this screen.

- OPERATE 1/PICTURE
2/POSITION
3/SOUND
4/INPUT SELECT
5/SOURCE INFO
6/STATIC



SOURCE INFORMATION Screen Format



Static Convergence Adjustment

Adjust for the red and blue CRTs to place their pattern on top of the green test pattern (center only).

NOTE: The static convergence adjustment should be performed for R and B CRT. Carry out the adjustment after displaying a motion picture for 20 minutes or more.

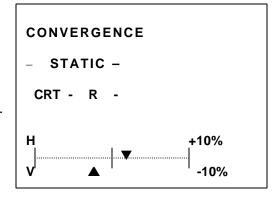
Proceed as follows:

- 1. Press the OPERATE button.
 - The "OPERATE" menu will be displayed.
- 2. Use the CURSOR ▲ or ▼ button to highlight the "6/STATIC" line and then press the ENTER button to display the STATIC adjustment screen. You can also select the STATIC adjustment screen directly by pressing the INPUT "6" button.

NOTE: The "STATIC" adjustment can also be displayed by pressing the STATIC button on the full function remote control.

- 3. Press the R or B button to display the pattern to be aligned with the Green pattern (as used a reference color).
 - You can turn on or off each CRT beam (R and B) separately.
- 4. Hold down the CTL button then select the CRT you wish to adjust with the R and B buttons.
- 5. Align the center of the Red or the Blue pattern with the center of the Green pattern using the CURSOR buttons.
 - The CURSOR ◀ or ▶ button moves the pattern right or left. The CURSOR ▲ or ▼ button moves the pattern up or down.
- 6. Repeat steps 3 to 5 for the other CRTs if necessary.
- 7. To end this adjustment, press the END button to display the "STORE?" menu.
 - Whenever the END button is pressed, the screen will be changed in this order:
 - "OPERATE" menu "STORE?" menu

- OPERATE 1 / PICTURE
2 / POSITION
3 / SOUND
4 / INPUT SELECT
5 / SOURCE INFO



- 8. Use the CURSOR ◀ or ▶ button to select either "YES" or "NO" and press the ENTER button.
 - If the STATIC convergence data has not been changed, the "STORE?" menu will not be displayed.

Items to selectYES -----The data will be storedNO -----The data will not be stored

• To exit this mode without storing the current status, select "NO". If the current status is not stored due to other button operation, the "STORE?" menu will be displayed.

Picture and Sound Mute

This function mutes a picture or sound.

To mute a picture or sound:

Pressing PICTURE (PIC) MUTE mutes a picture.
 Pressing SOUND MUTE motes sound.
 Pressing again restores the picture (or sound).

NOTE: When picture is muted, no "OPERATE" menu or "ADJUST' menu can be accessed.

Normal and Load Function

Adjustment settings can be returned to the standard level or the previously stored set level.

To return to the standard level (NORMAL):

- 1. Press the NORMAL button.
 - A confirmation message will be displayed.
- 2. Use the CURSOR ◀ or ▶ button to select "YES".
- 3. Press the ENTER button.
 - The NORMAL function will be executed.

NOTE: If you select "NO", you will exit this mode suspending current status.

To return to the last stored level (LOAD):

- 1. Press the NORMAL button while holding down the CTL button.
 - A confirmation message will be displayed.
- 2. Use the CURSOR ◀ or ▶ button to select "YES".
- 3. Press the ENTER button
 - The LOAD function will be executed.

NOTE: If you select "NO", you will exit this mode suspending current status.

X X X X X X X X DATA NORMALIZE?

YES NO

XXXXXXX = Adjustment item to be normalized

XXXXXXX DATA LOAD?

YES

NO

XXXXXXX = Adjustment item to be loaded

SPECIFICATIONS

Projection type : Refraction type

Projector and screen are separated

Projection system : 3 lens and 3 CRT's in-line

Scanning frequency H 15 to 61.1kHz / V 38 to 150Hz (PG-6000/PG-6000G)

H 15 to 90kHz / V 38 to 150Hz (PG-9000/PG-9000G)

Retrace time : $H 4.0 \mu S$ (fH 15 to 30kH2)

H 2.5 µS (fH 30 to 9OkHz)

v 350 µS

Video bandwidth : 70MHz (-3dB)

CRT : 7 inch liquid cooling

Deflection angle 90 degrees

Lens : Hybrid lenses multilayer coating F1.0

Picture size : 60 to 300 inches diagonal

Resolution : 1000TV lines Pixel resolution : 1280×1024 dots

Light output : 800 lumens (Small area peak high light brightness)

Contrast ratio : 1 : 20(HDTV method)

High voltage : 32kV

Input : RGB signal 0.7Vp-p 75ohm positive (BNC)

H/V sync 0.7 to 4.0Vp-p 75ohm negative or positive (BNC) COMP sync 0.7 to 4.0Vp-p 75ohm negative o r positive (BNC)

Sync on G 0.3 to 0.6Vp-p 75ohm negative (BNC)

Video 1.0Vp-p 75ohm positive (BNC)

or (switchable)

S-video; Y I .0Vp-p 75ohm positive

C 0.28Vp-p 75ohm (burst level)

Video system NTSC, PAL, SECAM and NTSC4.43

Convergence : Digital convergence (Pre-set 100 positions)

Quick copy convergence Static and wave convergence

Point convergence: PG6000/PG-6000G Optional

PG-9000/PG-9000G Standard

Convergence limits : Less than 0.2% of V-height

Warm up time : 20 minutes

Input current

Setup signal : Cross hairs, Cross hatch. Dot, Window pattern, H test pattern

Power supply : AC 120V 60Hz (PG6000/PG-9000)

AC 220-240V 50Hz (PG6000G/PG-9000G)

Power consumption : PG-6000.PG-6000G 430W

PG-9000/PG-9000G 500W

: 5.8A (AC 120V) PG-6000/6.7A (AC 120V) PG-9000

3.8A (AC 220.240V) PG-6000G/4.4A (AC 220-240V) PG-9000G

Safety and regulation : PG-6000/PG-9000;

Meets FCC class A requirements

UL Approved (UL 1950) Governed by IEC 950

CSA certified

Meets DHHS requirements

PG-6000G/PG-9000G;

Meets TÜV GS requirements

Governed by EN 60950 and IEC 950 Meets FTZ class B requirements Governed by DBP Vfg. 243 Meets x-ray requirements

Governed by § Röntgenverordnung (RöV)

SPECIFICATIONS

Cabinet dimensions : $610(W) \times 754(D) \times 309(H)$ mm

 $24 \frac{1}{8}(W) \times 29 \frac{S}{B}(D) \times 12 \frac{1}{8}(H)$ inch

Weight : 56 kg/123.4lbs.
Remote control : Wired application

Wireless (operating distance 7m/23ft.)

Remote control functions : User remote (RC-6010); Power ON/OFF, Input signal select. Picture mute.

Bright, Contrast, Color I), Sharpness 1), Tint 2), Volume 3), Sound mute, 3),

Source information. Static convergence. Normalize, Enter. End

Full function remote (RC-6011); Test, Display. Help. Information. Input list. Static focus, Edge focus, H/V position. White balance select, Static convergence,

Wave convergence. Point convergence, H/V amplitude, HIV linearity.

H/V key-stone. H/V pin-cushion, H/V blanking, Tilt, Skew, H/V bow, Store,

Normalize. Enter. End

External control : Power ON/OFF, Input signal select, Picture mute. Bright, Contrast, Color 1), PC control : Sharpness 1), Tint 2), Volume 3), Sound mute 3), Source information. Static

Supplied accessories convergence, Normalize. Enter, End

: Power ON/OFF Input signal select Picture mute. Remote control data input

: Acceptable

: Full function remote control unit (RC-601 I), User remote control unit (RC-6010),

Remote cable 4m/13ft., Remote cable 16m/52ft., AC line cable. Ceiling

Environment mounting kit. User's manual. Installation manual (not included with PG-6000G/

PG-9000G), Picture size spacers. PC control software (one manual

and one floppy disk)

Sound emission : Temperature 0 to 40 degrees C

Humidity 0 to 90% non-condensing

Storage -10 to 50 degrees c : PG-6000/PG-9000 45dB

PG-6000G/PG-9000G 70dB (A). Complies with DIN 45635 (or ISO 7779)

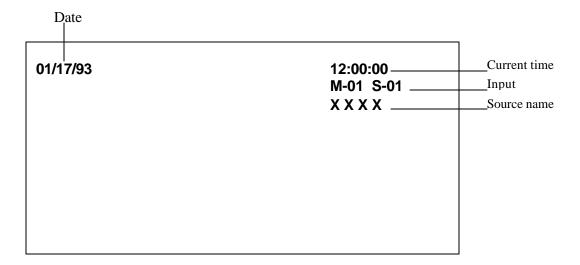
- 1) This works only for VIDEO signals.
- 2) This works only for NTSC video signals.
- 3) This works only with the Switcher operation.

Specifications are subject to change without notice.

The dimensions given for the projector do not include protruding parts.

Screen Format in Projecting a Picture

NOTE: The example of the screen display is only when used with the ISS-6010/ISS-6010G.



NOTE:

- Consult your dealer for changing the on-screen display mode.
- If the main power is not supplied to the projector for three days or more, the built-in clock may have to be reset, If this happens, consult your dealer for setting date and time.