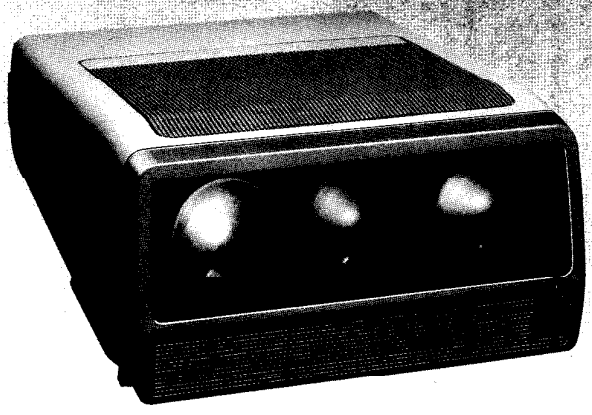
SONY

Multiscan Projector

VPH-1272Q/1272QM
VPH-1252Q/1252QM

English Français

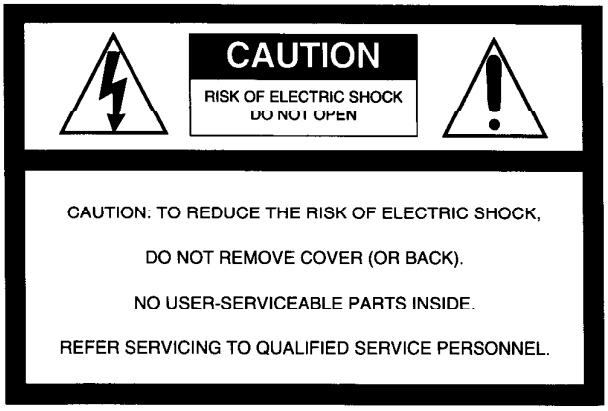


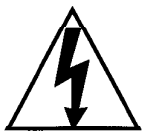
VPH-1272Q/1272QM VPH-1252Q/1252QM

SuperData EX / SuperData

WARNING

To prevent fire or shock hazard, do not expose the unit to rain or moisture.





This symbol 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.

This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

For the customers in the USA

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.

You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment.

Owner's Record

The model and serial numbers are located on the side. Record the model and serial numbers in the spaces provided below. Refer to these numbers whenever you call upon your Sony dealer regarding this product.

Model No._____ Serial No._____

For the customers in Canada

This Class A digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

For the customers in the United Kingdom

WARNING
THIS APPARATUS MUST BE EARTHED

IMPORTANT
The wires in this mains lead are coloured in accordance with the following code:

Green-and-yellow: Earth
Blue : Neutral
Brown : Live

As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:
The wire which is coloured green-and-yellow must be connected to the terminal in the plug which is marked by the letter E or by the safety earth symbol ⏚ or coloured green or green-and-yellow. The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black. The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red.

Table of Contents

Your projector is convertible for 70 to 300 diagonal inches projection. It is factory preset at 120 diagonal inches. For [illegible] consult the qualified Sony personnel.

This manual covers the VPH-1272Q/1272QM and the VPH-1252Q/1252QM. The operating procedures are the same in any model. Any difference between them is clearly indicated in the manual.

English

Precautions

On safety

- For the VPH-1272Q/1252Q, operate on 120 V AC, 50/60 Hz.
  For the VPH-1272QM/1252QM, operate on 220-240 V AC, 50/60 Hz.
- Should any liquid or solid object fall into the cabinet, unplug the unit and have it checked by qualified personnel before operating it further.
- Unplug the unit from the wall outlet or set the MAIN POWER switch to OFF if it is not to be used for several days.
- To disconnect the cord, pull it out by the plug. Never pull the cord itself.
- The wall outlet should be near the unit and easily accessible.
- The unit is not disconnected from the AC power source (mains) as long as it is connected to the wall outlet, even if the unit itself has been turned off.

On installation

- When the projector is mounted on the ceiling, the Sony PSS-1270, PSS-10 or PSS-1272 projector suspension support must be used for installation.
- Allow adequate air circulation to prevent internal heat build-up. Do not place the unit on surfaces (rugs, blankets, etc.) or near materials (curtains, draperies) that may block the ventilation holes. Leave space of more than 10 cm (4 inches) between the wall and the projector. Be aware that room heat rises to the ceiling; check that temperature near the installation location is not excessive.
- Do not install the unit in a location near heat sources such as radiators or air ducts, or in a place subject to direct sunlight, excessive dust or humidity, mechanical vibration or shock,
- To avoid moisture condensation, do not install the unit in a location where the temperature may rise rapidly.
- Fans are installed inside the projector to prevent internal heat build-up. If the fans make too much noise, please consult the qualified Sony personnel.
- The unit may be connected to an IT power system with phase — phase voltage 230 V.

On illumination

- To obtain the best picture, the front of the screen should not be exposed directly to illumination or sunlight.
- Ceiling mounted spot lighting is recommended. Use a cover over fluorescent lamps to avoid lowering contrast ratio.
- Cover any windows that face the screen with opaque draperies.
- It is desirable to install the projector in a room where floor and walls are not of light-reflecting material. If the floor and walls are of reflecting material, it is recommended that the carpet and wall paper be changed to a dark color.

On cleaning

- To keep the cabinet looking brand-new, periodically clean it with a soft cloth.
  Stubborn stains may be removed with a cloth lightly dampened with a mild detergent solution. Never use strong solvents, such as thinner or benzine, or abrasive cleansers, since these will damage the cabinet.
- Avoid touching the lens. To remove dust on the lens, use a soft dry cloth. Do not use a damp cloth, detergent solution, or thinner.

On repacking

- Save the original shipping carton and packing material; they will come in handy if you ever have to ship your unit. For maximum protection, repack your unit as it was originally packed at the factory.

On CRT burns

When a static picture of a video or computer signal is displayed for more than approximately one hour, a CRT burn may result. This means that an after-image impression of the static picture remains on the screen even after the signal is changed. If it is necessary to display the same static picture for more than approximately one hour, we recommend that you set the CONTR (contrast) control to the lowest setting possible. Also, when a picture of different size is displayed beyond a certain length of time, an after-image impression of the picutre frame of smaller picture may be burnt on the screen. (such as displaying a 16:9 picture on a 4:3 screen) To avoid this, we recommend that you use the same picture size when possible. However, if it is necessary to use a different picture size, set the CONTR (contrast) control and the BRT (brightness) control of the smaller picture to the lowest setting possible. This will minimize the risk of making an after-image impression.
Should a CRT burn occur, the CRT must be replaced. In this event, the cost of replacing the CRT is not covered under the warranty provided with this unit. Consult your Sony dealer or qualified personnel.

On spotting on the lens

When you look into the lens from the front side of the projector, small bubbles, or small black spots that look like dust, may be seen on the lens. These spots do not affect the image you project on the screen.

Features

Multiscan projector

The projector accepts and detects automatically the horizontal scanning frequencies between 15kHz–93kHz for VPH-1272Q/1272QM and 15kHz–61.5kHz for VPH-1252Q/1252QM and the vertical scanning frequencies between 38Hz–150Hz for both models.
In addition to high-resolution pictures from computers, pictures from teletext decoders, VCRs, and video cameras can also be projected.

Bright image—light output 700 lumen

A newly-developed phosphor, large CRT, and improved high voltage circuitry provides super brightness.

Fine-detailed picture resolution—1500 x 1200 pixels

High-quality picture with resolution of 1500 x 1200 pixels is obtained through combination of Sony HACC (High-resolution Aspherical and Color Corrected) lens and a newly developed electron gun to improve beam spot. In addition, adoption of a double-focus lens system and an anti-reflection coating contributes to fine-detailed sharp picture with improved contrast in the corners as well as the screen center.

Wireless and wired remote control

All adjustments can be remotely controlled from both front and rear of the projector with the supplied Remote Commander. The Commander can also be connected to the projector with a cable and used as a wired Commander.

On-screen display

Adjustment instructions and indications such as picture and sound controls and guide and error messages can be displayed on the screen. The current setting of each control and input condition can also be displayed.

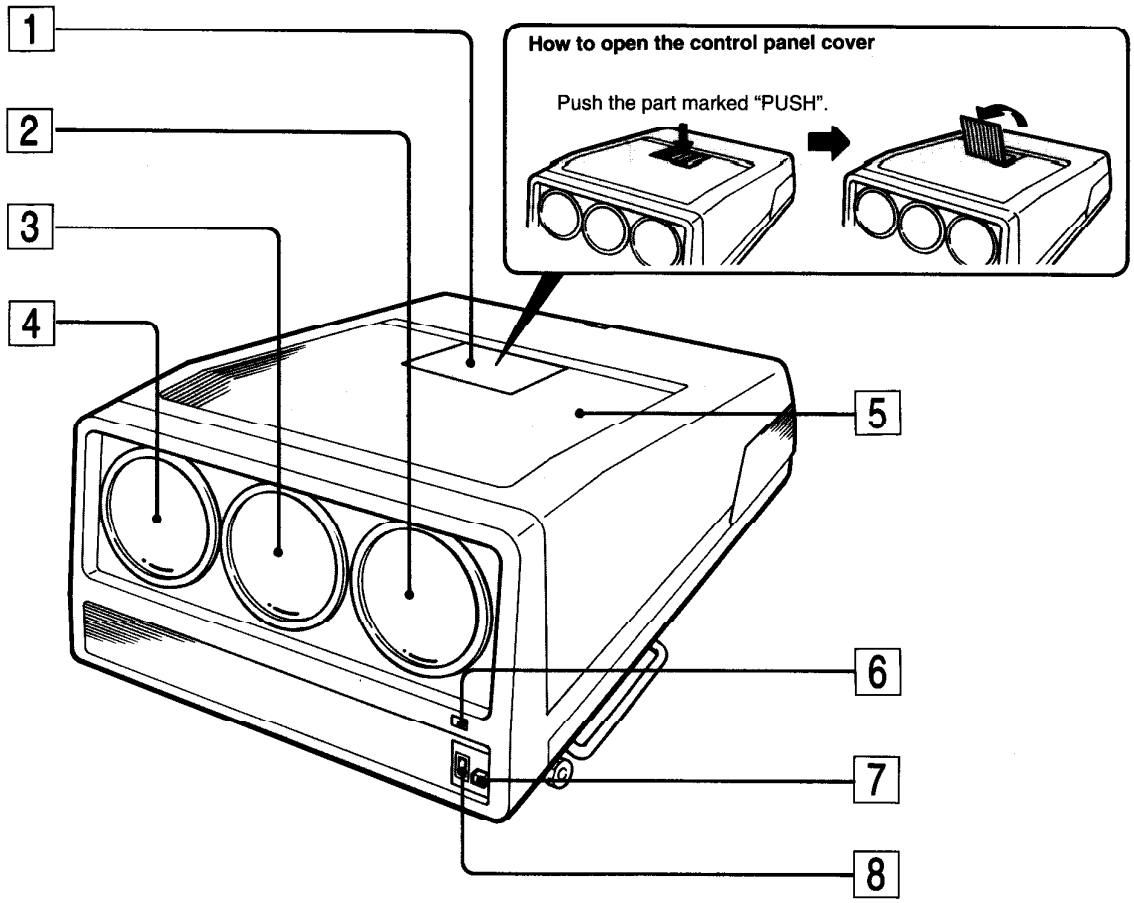
Other features

- **Four color systems available**
  One of NTSC, PAL, SECAM, or NTSC4.43* color systems is selected automatically.
- **Various installation possibilities**
  The projector is designed to be installed on desk, floor or ceiling and can be used with a flat screen, curved screen or rear projection screen.
- **Illuminated Remote Commander and control panel**
  When the LIGHT button on the Remote Commander or control panel on the projector is pressed, the indications are illuminated for easy operation in dim or dark places.
- **Internal test signal**
  Centering adjustment can be performed easily by projecting the built-in cross-hair test signal. No external test signal is needed.
- **Easy adjustment of the horizontal tilt**
  The horizontal tilt of the projector can be easily adjusted with the adjusters on the bottom of the projector.

* A signal of NTSC4.43 system is obtained by playing back NTSC-recorded video tapes with a video tape recorder/player specially designed for use with this system.

Location and Function of Controls

Front



1 **Control panel**
There are the control keys inside the panel.

2 **Red lens**

3 **Green lens**

4 **Blue lens**

5 **Speaker**

6 **Front remote control detector**

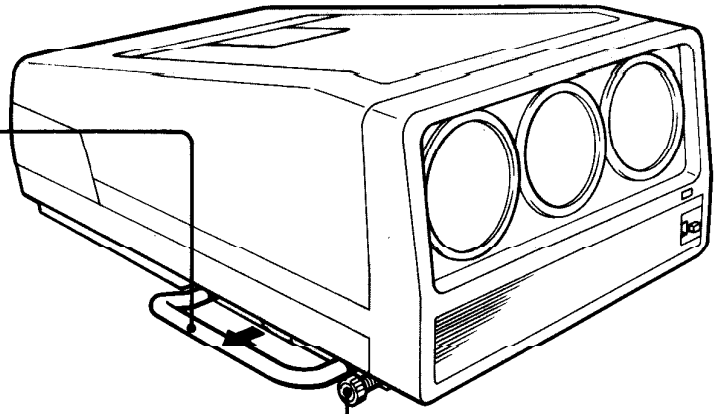
7 **MAIN POWER switch (ON/ OFF)**
Press to turn on and off the main power.

8 **AC IN socket**
Connect the supplied AC power cord.

English

Location and Function of Controls

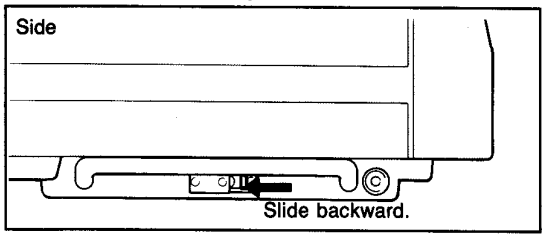
Bottom



Handle

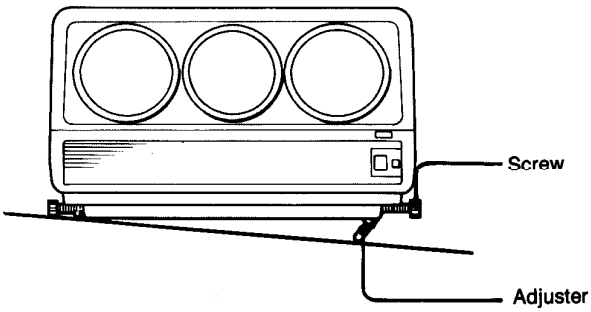
Used for carrying the projector. Pull out to use.

Putting the handle away



How to use the adjusters

The horizontal tilt of the projector can be adjusted using the adjusters.

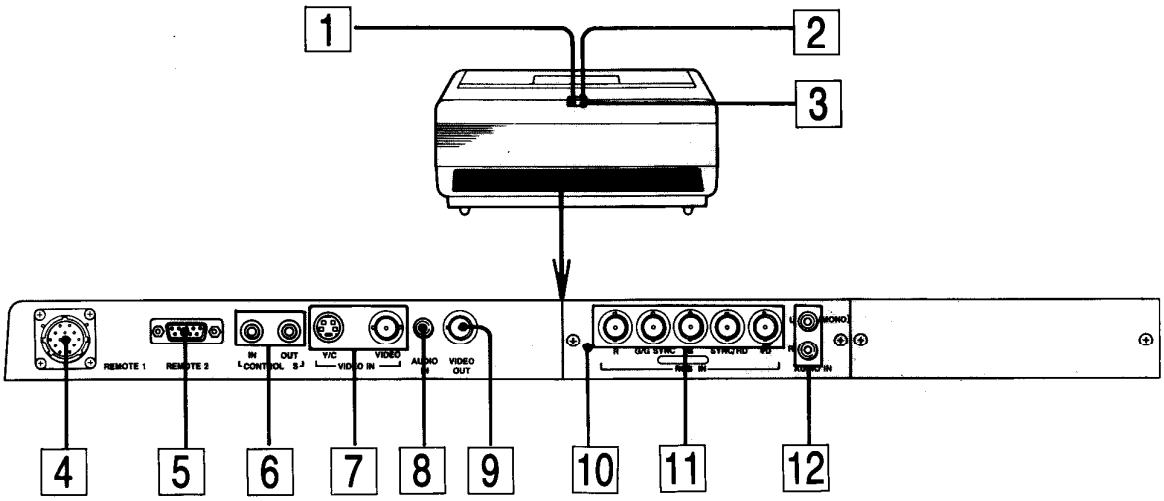


1 **While lifting the projector using a handle, turn t' screw to the left.**
Adjuster comes out.
By using the philips-head screwdriver, you can turn the screw without lifting the projector.

2 **Adjust the height.**
If it is too high, turn the screw to the right to lower the projector.
If it is too low, lift the projector again and turn the screw to the left to heighten the projector.

To retract the adjusters
Tighten the screw by turning to the right.
When the screw is tightened completely, the adjusters are locked and put away.
Retract the adjusters when carrying the projector.

Rear



1 **Rear remote control detector**

2 **POWER indicator**
Green indicator is on when the power is turned on.
STANDBY indicator
When the MAIN POWER switch is on, the red light indicating standby will be on. When the red light is on, the projector can be controlled with the Remote Commander.
Note
When the MAIN POWER switch is turned off, there will be a slight delay before the red light goes off.

4 **REMOTE 1 connector (14-pin)**
Connect to the REMOTE 1 connector of the PC-1271/1271M switcher (not supplied).

5 **REMOTE 2 connector (9-pin)**
Connect RS-422 interface for interactive communication with the external equipment. Take off the red cap before use.

6 **CONTROL S IN/OUT connectors**
Connect to the CONTROL S connectors of other Sony equipment.
CONTROL S IN: Connect to the CONTROL S OUT connector of the supplied Remote Commander to use as a wired Commander.

7 **VIDEO IN connectors**
Y/C (4-pin): Connect to the Y/C output of a VCR.
VIDEO (BNC type): Connect to the video output of video equipment.
Note
The VIDEO connector is disconnected automatically when a cable is connected to the Y/C connector.

8 **AUDIO IN jack (phono)**
Connect to the audio output of video equipment.

9 **VIDEO OUT connector (BNC type)**
Connect to the video input of a color monitor. The signal input from the Y/C connector is not output from this connector.

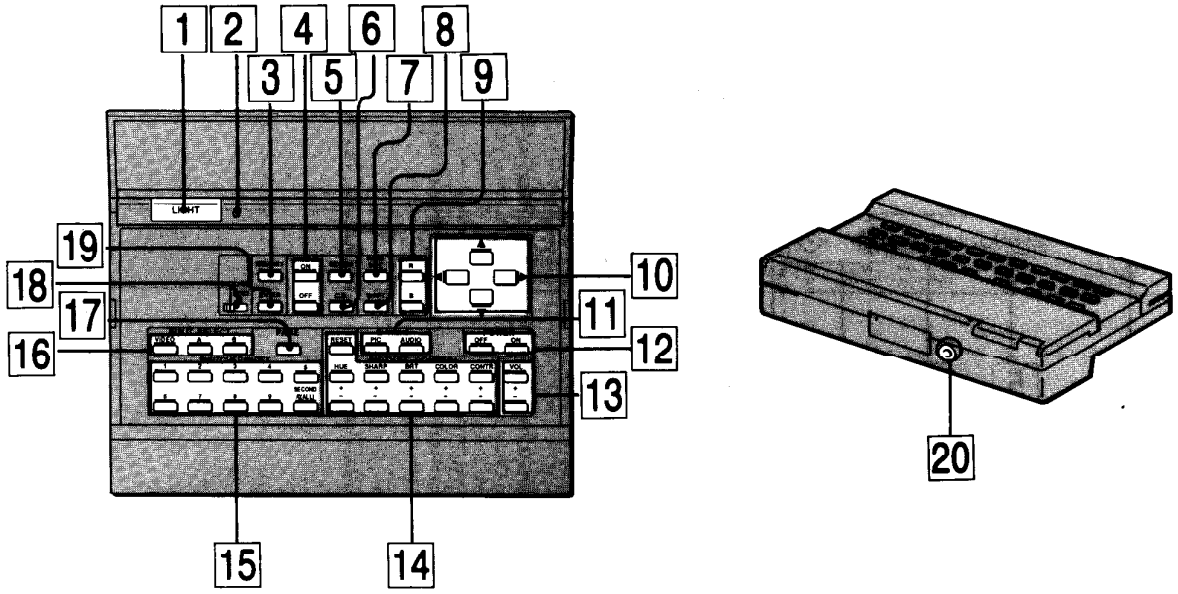
10 **Indicator**
Lights when INPUT A mode is selected.
The optional interface board is also equipped with this indicator which lights when INPUT B mode is selected.

11 **RGB IN connectors (BNC type)**
R, G/G SYNC, B, SYNC/HD, VD connectors:
Connect to the RGB outputs of a computer or a video camera.

12 **AUDIO L/R IN jacks (phono)**
Connect to the audio output of a computer or a video camera connected to the RGB IN connectors. For stereo equipment, use the AUDIO L and R IN jacks. For monaural equipment, use the AUDIO L IN jack only.
Note
The projector is monaural so that sound will not be reproduced in stereo.

Location and Function of Controls

Remote Commander RM-1271



1 **LIGHT button**
Press to light key indicators.
If the keys are not operated within about 30 seconds, the light automatically goes out.

2 **Transmission indicator**
The light goes on each time a key is pressed. When the indicator does not light, replace the batteries.

3 **MEMORY key**
Press to store various adjustment data into memory.

4 **STATUS ON/OFF key**
Press **OFF** to eliminate the on-screen display.
Press **ON** to restore the on-screen display.
Note: The PAGE display appears even when the **OFF** key is pressed.

5 **SECAM key**
When SECAM signal is input to the projector and you cannot get normal color, press this key. Press again to switch over to the other standard system sources, NTSC or PAL.

6 **C.B. (clear blue) key**
Press to make the blue color clear in RGB mode. Press again to restore the normal condition.

7 **RGB SIZE key**
Press to adjust the size of the picture for the video and RGB signal inputs.
Press this key to enter the size adjustment mode. The size adjustment is performed using the four arrow keys.
◀ ..... to reduce the horizontal size
▶ ..... to expand the horizontal size
▲ ..... to expand the vertical size
▼ ..... to reduce the vertical size

8 **RGB SHIFT key**
Press to adjust the shift of the picture for the RGB signal input.
Press this key to enter the shift adjustment mode. The shift adjustment of the picture is performed using the four arrow keys. The picture shifts according to the direction of the arrow.
Note
This key does not function with the video signal input.

9 **CENT R/B keys**
Press to enter the centering adjustment mode of the red and blue.
CENT R: Press to enter the red centering adjustment mode.
CENT B: Press to enter the blue centering adjustme mode.
Centering adjustments are performed using the four arrow keys.
To return to the normal display, press the MEMORY key.

10 **Arrow keys**
The keys are used for various adjustment functions.

11 **PJ MUTING keys**
PIC: Press to cut off the picture. To restore the picture, press it again or CONTR +.
AUDIO: Press to cut off the sound. To restore the sound, press it again or VOL +.

12 **POWER ON/OFF keys**
Press to turn on and off the projector.

13 **VOL (volume) +/– keys**
Press to adjust volume.
+: to increase volume
–: to decrease volume

14 **PICTURE CONTROL keys**
Press to adjust picture condition: hue, sharpness, brightness, color and contrast. Press RESET to restore the standard levels.

15 **SWITCHER/INDEX keys**
When the SWITCHER/INDEX select switch is set to SWITCHER
When the PC-1271/1271M switcher is connected, select the input from the switcher. The SECOND key is used when two switchers are connected. To select the input from the second switcher (when the switcher's SINGLE/SECOND/OTHER switch is set to SECOND), press the number keys after pressing SECOND. Number key 9 does not operate.
When the SWITCHER/INDEX select switch is set to INDEX
These keys function when the IFB-101 interface board (not supplied) is attached and multiple projectors are connected. For details, refer to the instructions manual of the IFB-101.

16 **INPUT SELECT keys**
Press to select the input signal.
VIDEO: to select the signal input from the VIDEO IN (Y/C or VIDEO) connectors
A: to select the signal input from the RGB IN connectors
B: to select the signal input from the connectors of B section (when the optional interface board is attached)

17 **PAGE key**
Press to display and switch the following four on-screen displays. (On PAGE 1, 2 and 3 adjustment can also be done.)
PAGE 1: Displays STATUS ON/OFF, PIC MUTING ON/OFF, AUDIO MUTING ON/OFF, CLEAR BLUE ON/OFF and SECAM ON/OFF.
PAGE 2: Displays the picture conditions; contrast, color, brightness, sharpness and hue, and volume level.
PAGE 3: Displays the color temperature level, clamp setting and vertical shift range.
PAGE 4: Displays the input signal conditions; fH, fV, H/C-sync, V-sync, Sync on Green and input signal and registration memory block assignment.

18 **SWITCHER/INDEX select switch**
Selects the SWITCHER/INDEX key function.
When using as the switcher input selector, set to SWITCHER.
When attaching the IFB-101 interface board (not supplied) on the control panel of the projector and controlling multiple projectors, set to INDEX.

19 **ENTER key**
This key functions when the IFB-101 interface board (not supplied) is attached and multiple projectors are connected. For details, refer to the instructions manual of the IFB-101.

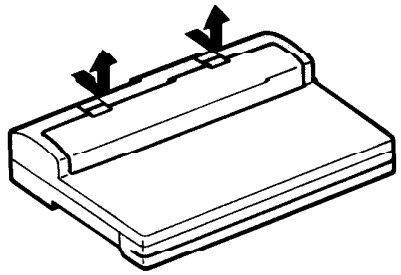
20 **CONTROL S OUT connector**
Connect the supplied remote control cable to this connector and to the CONTROL S IN connector of the projector for wired Commander application.

English

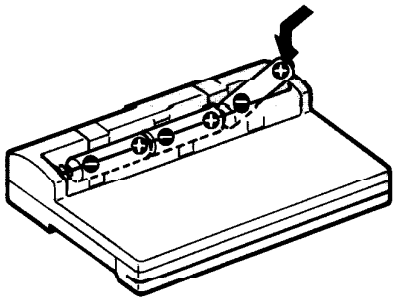
Location and Function of Controls

Battery installation

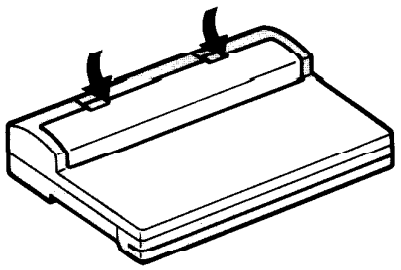
1 **Push to open the lid.**



2 **Install three AA (R6) batteries with the correct polarity.**

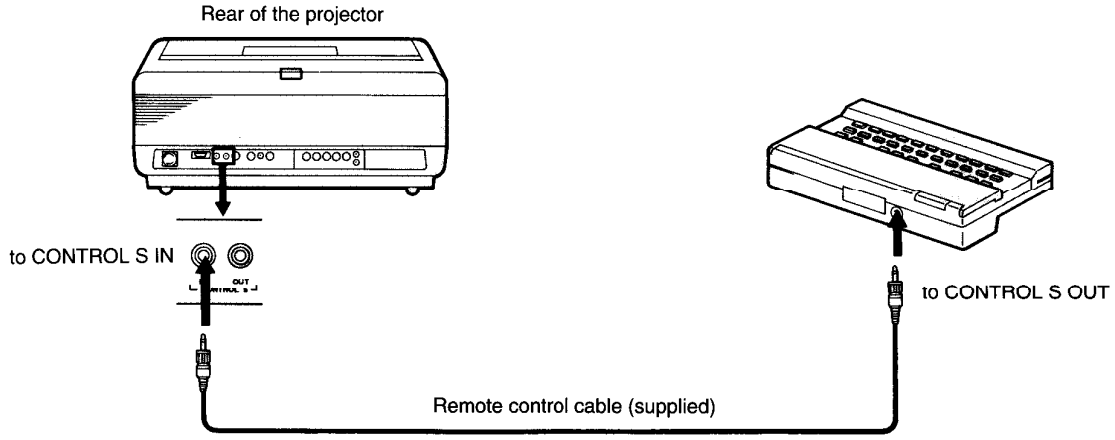


3 **Replace the lid.**



- If the projector does not operate properly, the batteries might be worn out. Replace all three of them with new batteries.
- The life of the batteries depends on frequency of usage and how often you use the LIGHT button. If they wear out quickly, replace them with new alkaline batteries.
- To avoid damage from possible battery leakage, remove the batteries when the Commander will not be used for a long time.
- Be sure that there are no obstructions between the Commander and the unit.
- Operable range is limited. The shorter the distance between the Commander and the projector, the wider the angle within which the Commander can control the projector.

To connect the Remote Commander to the projector

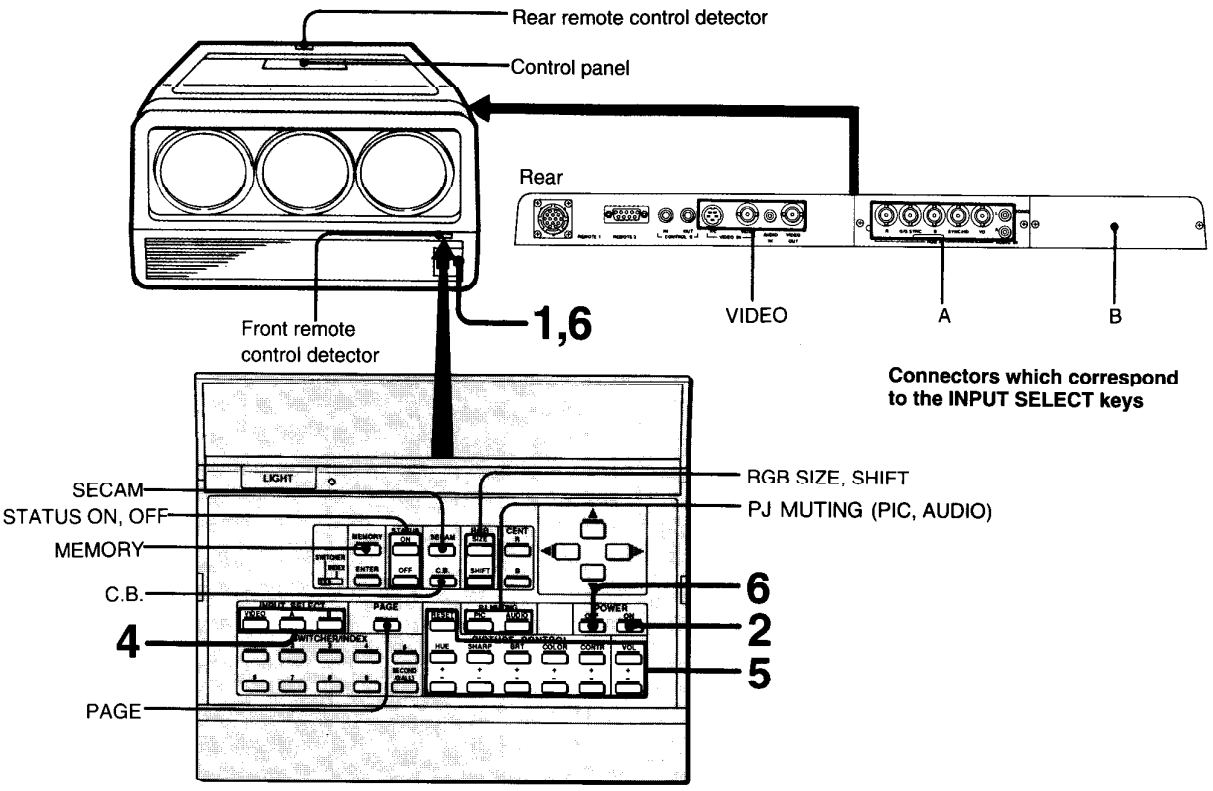


Note

When the above connection is made, the remote control detector of the projector does not function. For wireless operation, be sure to disconnect both plugs from the projector and the Commander.

Projecting

You can also use the keys on the control panel with the same name as the Remote Commander to operate the projector.



1 **Depress the MAIN POWER switch of the projector (▬ ON).**

2 **Turn on the power by pressing the POWER ON key on the Remote Commander or the control panel of the projector.**

3 **Turn on the connected equipment.**

4 **Select the input signal to be projected by pressing the INPUT SELECT key.**
VIDEO: to select the signal input from the VIDEO IN (Y/C or VIDEO) connectors
A: to select the signal input from the RGB IN connectors
B: to select the signal input from the connectors of "B" section (optional interface board)
When the PC-1271/1271M switcher is connected, set the SWITCHER/INDEX select switch to SWITCHER and then select the input with the SWITCHER/INDEX number keys. If two switchers are connected, first press the SECOND key and then the number key.

5 **Adjust the picture and sound.**

6 **To turn off the power, press the POWER OFF key on the Remote Commander or the control panel of the projector, then press the MAIN POWER switch of the projector.**

English

Projecting

To cut the on-screen display

Press the STATUS OFF key.
However, PAGE is displayed even in OFF mode.
To restore the on-screen display, press the STATUS ON key.

To cut off the sound or picture

To mute the sound
Press the PJ MUTING AUDIO key. To restore the previous sound level, press the PJ MUTING AUDIO key again or VOL + key.

To cut off the picture
Press the PJ MUTING PIC key. To restore the previous brightness level, press the PJ MUTING PIC key again or CONTR + key.

If the SECAM color source is incorrect

Press the SECAM key. Press again to switch over to other standard system sources, NTSC or PAL.
If you wish to keep the C.B. ON/OFF or SECAM ON/OFF setting, press the MEMORY key (see page17).

[illegible]

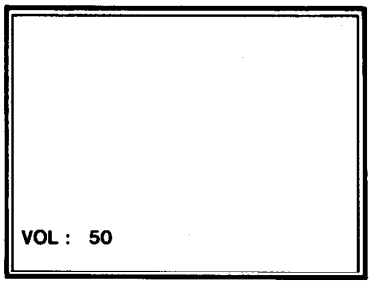
- You can adjust the size of the picture using the RGB SIZE and arrow keys.
- The shift of the picture cannot be adjusted.

Notes on projecting a picture input from the RGB IN connectors

- To make the blue color clear, press the C.B. key. Press again to restore the normal condition.
- If necessary, adjust the size and shift of the picture using the RGB SIZE/SHIFT and arrow keys.

Adjusting the Picture and Sound

Use the VOL and PICTURE CONTROL keys on the Remote Commander.
The adjustment levels are digitally displayed on the screen having a range of MIN, 1, 2, . . . , 98, 99, MAX.



VOL +/– keys +: to increase volume
–: to decrease volume

CONTR +/– keys +: to increase picture contrast
–: to decrease picture contrast

COLOR +/– keys +: to increase color intensity
–: to decrease color intensity

BRT +/– keys +: to make the picture brighter
–: to make the picture darker

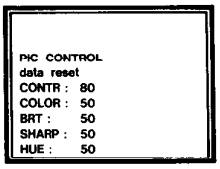
SHARP +/– keys +: to make the picture sharper
–: to make the picture softer

HUE +/– keys +: to make skin tones greenish
–: to make skin tones purplish

- The COLOR, SHARP and HUE controls do not function on the picture input from the RGB IN connectors.
- The HUE control does not function with the PAL or SECAM color source.

To restore the factory preset levels

Press the RESET key.
The factory preset levels will be displayed on the screen.



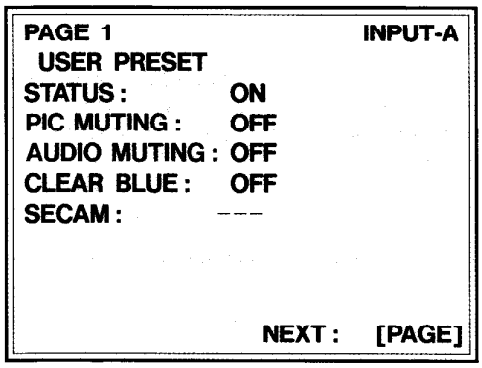
English

To Display the Current Control Settings and Conditions

Press the PAGE key for displaying the following four on-screen displays. Adjustment can also be done on PAGE 1, 2 and 3. The displays will switch as follows every time the PAGE key is pressed:

PAGE 1 → PAGE 2 → PAGE 3 → PAGE 4
↑ ← **Original screen** ←

PAGE 1



STATUS: ON/OFF The setting is stored even if the power is turned off. When on-screen display does not appear, check if STATUS ON is displayed.

PIC MUTING: ON/OFF Whenever the power is turned on, PIC MUTING is set to OFF. When sound is heard but no picture is displayed, check if PIC MUTING is set to ON.

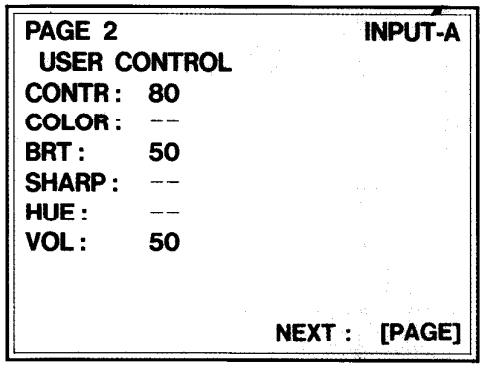
AUDIO MUTING: ON/OFF Whenever the power is turned on, AUDIO MUTING is set to OFF. When the picture is seen but no sound is heard, check if AUDIO MUTING is set to ON.

CLEAR BLUE: ON/OFF The setting can be changed for each input signal which differs in any of the items indicated in PAGE 4.

SECAM: ON/OFF When the PAL color signal is projected with this item set to ON, the picture is displayed in black and white.
Make sure to set to OFF when the SECAM color source is not connected.

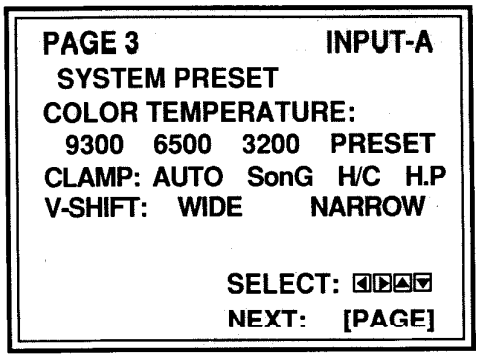
"- - -" indicates that the control does not function with the current input signal.
To change the settings, adjust with the appropriate key.

PAGE 2



The picture conditions; contrast, color, brightness, sharpness, hue and volume level are displayed. The levels can be changed independently for the signal input from different input connectors. (You can check the input connector from the message displayed in the upper right corner of the screen).
"- -" indicates that the control does not function with the current input signal. (In this case, the input signal is RGB.) To change the levels, adjust with the VOL and PICTURE CONTROL keys.

PAGE 3



The color temperature, clamp and vertical-shift adjustment range settings are displayed.
The selected item blinks in green.
To change the setting, adjust by pressing ◀, ▶, ▲ and ▼ keys.

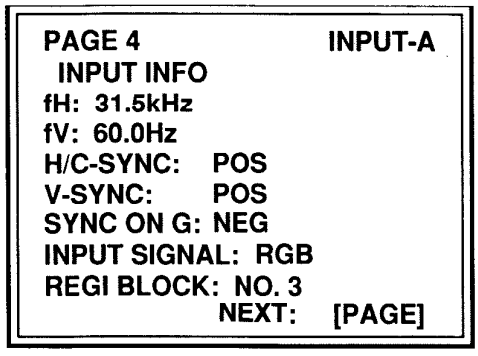
COLOR TEMPERATURE: 9300/6500/3200/PRESET
Normally, set to "6500". If you want to make white color bluish, set to 9300, and if you want to make white color reddish, set to 3200.

V-SHIFT: WIDE/NARROW
Normally set to WIDE. When some particular RGB signal sources are connected, the picture may be distorted vertically. In such case, set to NARROW. Adjustable range in the lower direction will be narrow.

For details of the clamp setting, see "If the luminance of the picture is incorrect–clamp setting" on page 19 .
If you wish to keep the current setting, press the MEMORY key (see page17).

Note
"CLAMP" and "V-SHIFT" are not displayed when the input mode is VIDEO.

AGE 4



The signal input conditions are displayed.

fH: The horizontal frequency of the input signal
fV: The vertical frequency of the input signal

H/C-SYNC: The polarity of the H/C-SYNC
V-SYNC: The polarity of the V-SYNC
SYNC ON G: The polarity of the SYNC on the Green

POS: positive
NEG: negative*
– –: no input

* When POS (NEG) is displayed in green:
The picture is being projected using its sync signal.
When POS (NEG) is displayed in white:
The picture is being projected without using its sync signal.

INPUT SIGNAL: The current input signal.
Y/C: S video input signal from VIDEO IN
RGB: RGB input signal
NTSC: NTSC input signal from VIDEO IN
PAL: PAL input signal from VIDEO IN
B&W: Black and white input signal from VIDEO IN
Internal oscillation mode: Internal oscillation mode (No signal is input.)

REGI BLOCK: The registration memory block number in which the input signal is assigned.

English

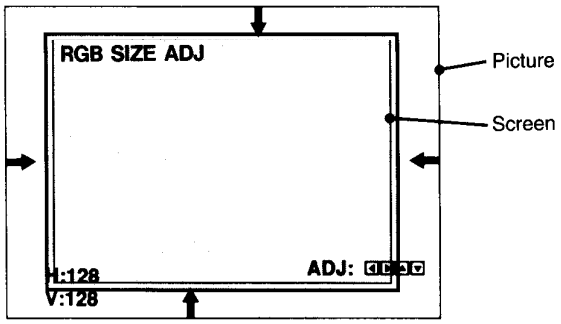
Adjusting the Size And Shift of the Picture

If necessary, adjust the size and shift of the picture using the RGB SIZE/SHIFT and arrow keys.
You can also adjust the size of the picture input from the VIDEO IN connectors using the RGB SIZE and arrow keys.
The SHIFT of the video input signal cannot be adjusted.

If you wish to keep the current adjustment setting, press the MEMORY key. (See page 17.)
When the setting is saved in the memory, the display disappears.

RGB/VIDEO SIZE adjustment

If the size of the picture does not fit the screen, adjust RGB SIZE.
In this case the RGB signal is input.



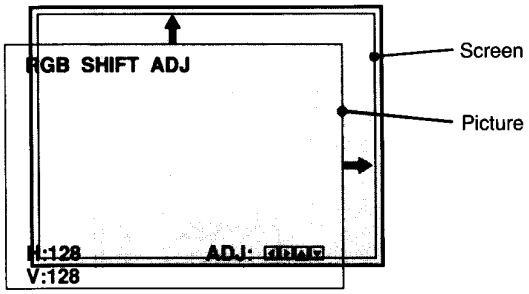
1 **Press the RGB SIZE key.**

2 **Adjust by pressing the arrow keys so that the picture fits the screen.**

- ◄ to reduce horizontal size
- ► to expand horizontal size
- ▲ to expand vertical size
- ▼ to reduce vertical size

RGB SHIFT adjustment

If the RGB picture needs to be shifted to fit the screen, adjust RGB SHIFT.



1 **Press the RGB SHIFT key.**

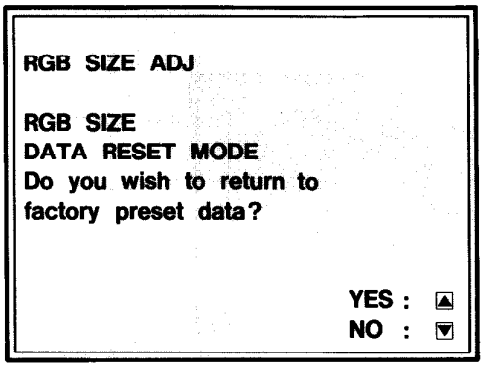
2 **Adjust by pressing the arrow keys so that the picture fits the screen.**
The picture shifts according to the direction of the arrow.

English

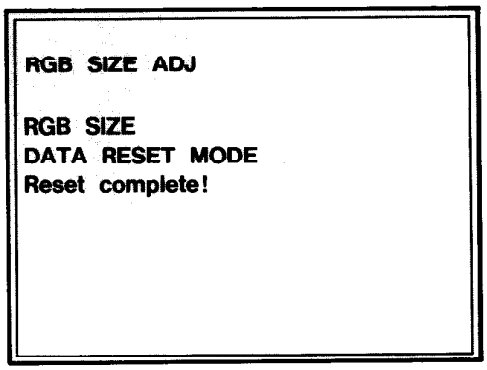
Resetting SIZE/SHIFT to the factory preset condition

1 **Press the RGB SIZE or SHIFT key.**

2 **Press the ◄ and ► keys simultaneously.**
The following on-screen display appears on the screen.
(ex. To reset the RGB SIZE to the factory preset condition)



3 **Press the ▲ key.**
The following on-screen display appears on the screen to confirm that resetting was completed.
To keep the current setting instead of resetting, press the ▼ key.



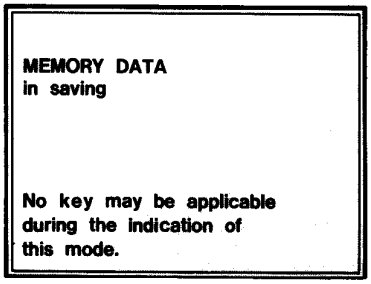
To Store the Adjustment Levels

ıı you with to save the picture adjustment changes, you must store them in the memory.
The following conditions can be stored:

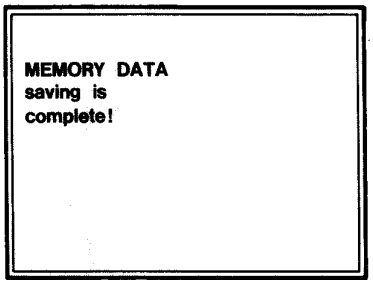
SECAM ON/OFF setting
CLEAR BLUE (C.B.) ON/OFF setting
COLOR TEMPERATURE, CLAMP and V-SHIFT adjustment settings on PAGE 3
VIDEO and RGB SIZE adjustment levels
RGB SHIFT adjustment level

English

1 **After the adjustment, press the MEMORY key.**
The following on-screen display appears to indicate that storing has begun. While the display is on, no other key will function.



2 The following on-screen display appears to confirm that storing has been completed.



Messages on the Screen

The meaning of the color:
Four colors are used in the letters of on-screen display.

Color	Meaning
Green	Function and condition, item being selected on PAGE display.
Cyan	Operation guide and messages
Yellow	Caution and error messages
White	Item being adjusted, item not being selected on PAGE display

Error message:
When an error occurs, the following messages will be displayed.

Message	
Not applicable!	The control does not function with the current input.
PIC MUTING	PIC MUTING is set to ON. If you want to adjust the picture controls, press the PJ MUTING PIC key to cancel the PIC MUTING mode.
Overflow	Adjustable range had reached its limit.
OFF	STATUS is set to OFF to clear the on-screen display. To restore the on-screen display, press the STATUS ON key.

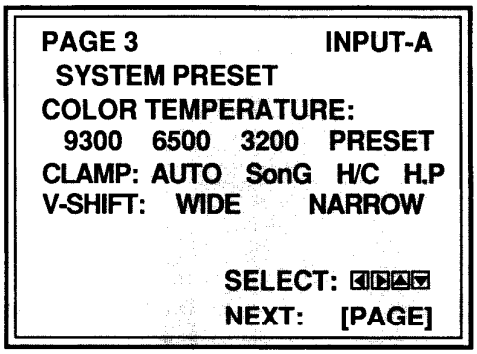
If the Luminance of the Picture is Incorrect—Clamp Setting

Clamp is used as a standard for setting the black level of the picture correctly. The standard position of the clamp depends on the kind of the sync signal. Normally, the CPU judges the signal and sets the clamp position automatically.
However, the CPU may misjudge the signal because of noise.

If the luminance of the picture seems to be incorrect, (too dark, the black color is too light, or the luminance is unstable) the clamp position may need to be changed.
In such case, change the clamp position following the procedure below.

English

1 **Press the PAGE key 3 times.**



2 **Select the clamp position by pressing the ◄, ►, ▲ and ▼ keys.**

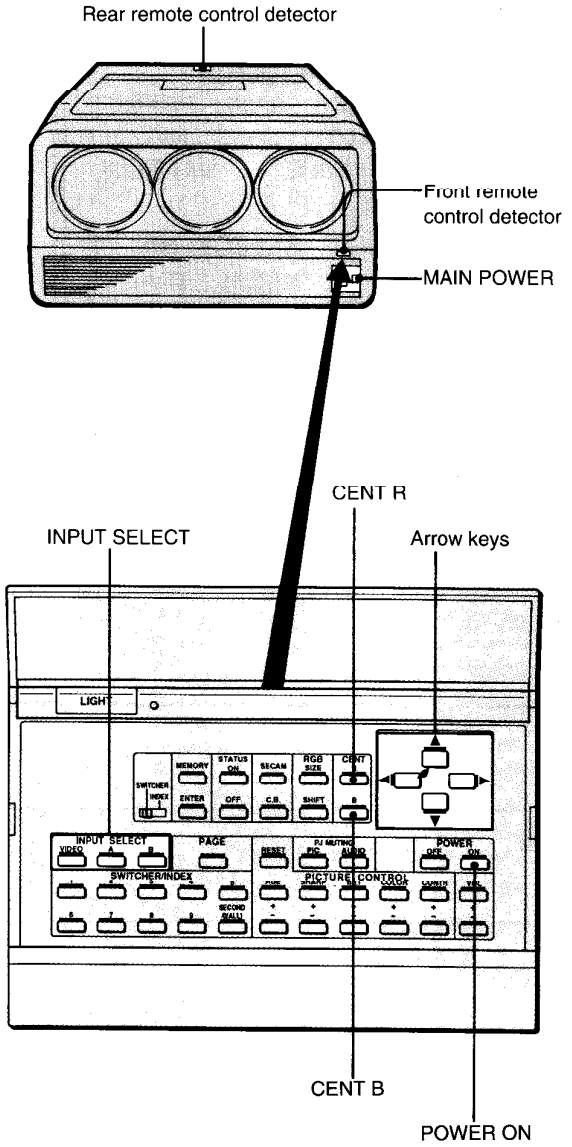
AUTO: Automatic setting mode. Normally, set to this position.
S on G: If the black color is too light or seems to be green, set to this position.
H/C: If the picture is too dark or the luminance is unstable, set to this position.
H.P: If the luminance is still incorrect after changing the clamp setting to "S on G" or "H/C", set to this position and perform H-SHIFT adjustment.

3 **Press the MEMORY key to store the data.**

If the luminance is still incorrect after changing the clamp setting
There may be a problem with the input signal or connection.
Check the input signal.

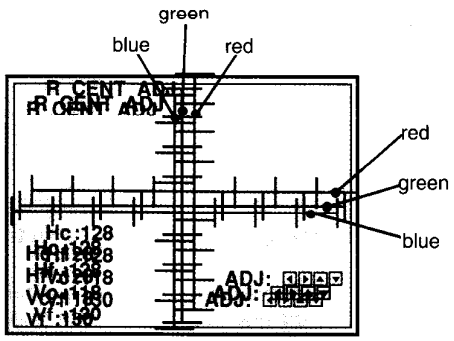
Centering Adjustment

The three colors, red, green and blue must converge for proper projection. If they do not converge, centering adjustment is necessary.

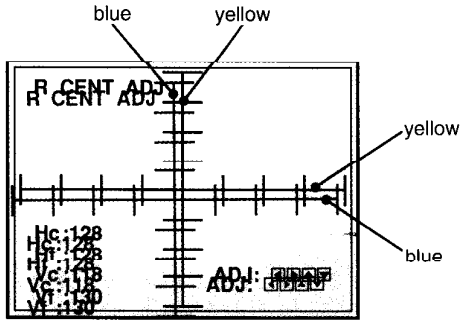


1 **Press the MAIN POWER switch of the projector and press the POWER ON key of the Remote Commander.**

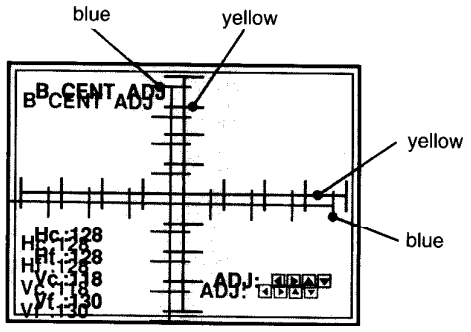
2 **Press the CENT R key.**
The built-in cross hair test pattern will be displayed and the red line will be operable.



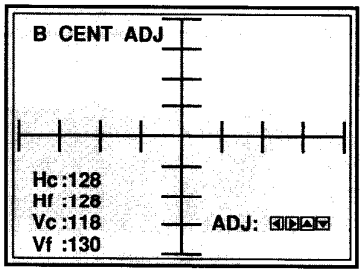
3 **Press the arrow keys to move the red line until the red and green lines converge and are seen as yellow.**
The red line will move according to the direction of the arrow.



4 **Press the CENT B key.**
The blue line will be operable.



5 **Press the arrow keys to move the blue line until the blue and yellow lines converge.**
When all three color lines converge, the test pattern will be seen as white.



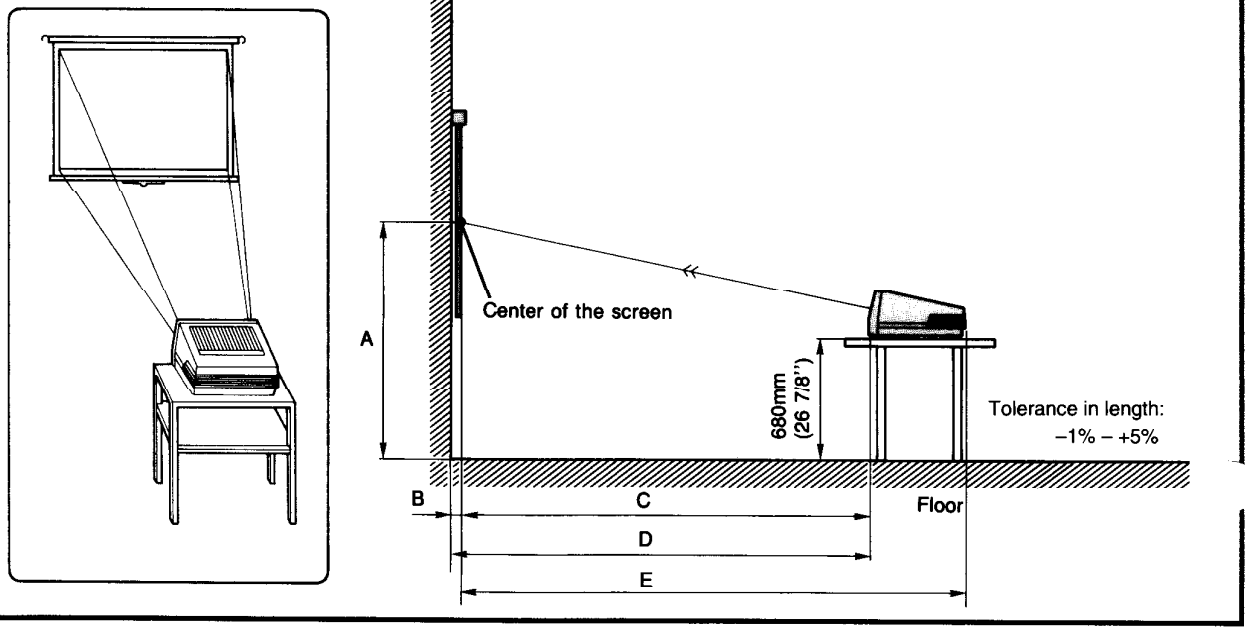
6 **Press the MEMORY key.**
The normal display is restored.

Installation Diagrams

Installation and preliminary adjustments should be carried out by qualified Sony personnel.

Using the Front Projection Screen

Installation 1 Floor, Flat screen

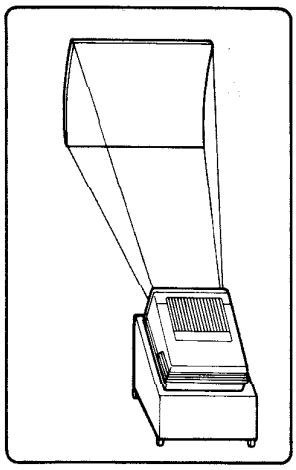


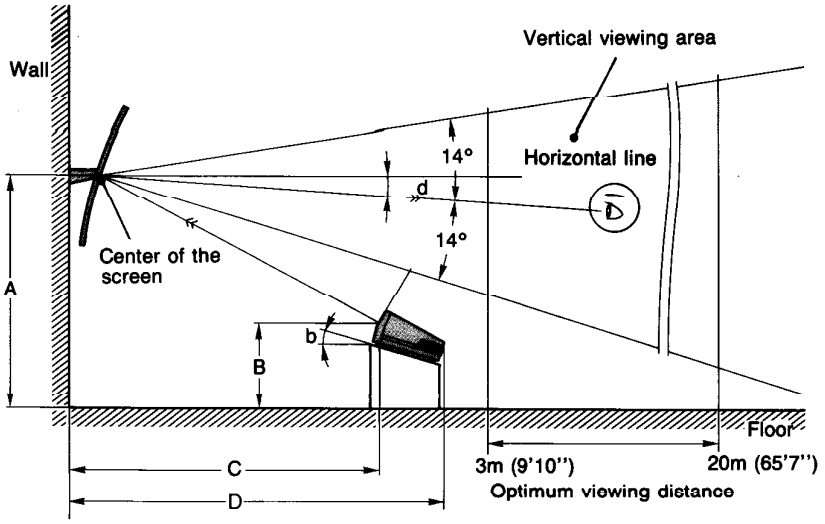
Screen size (inches)	Units: mm (inches)				
	A	B	C	D	E
70	1,423 (56 1/8")	–	1,995 (78 5/8")	–	2,771 (109 1/8")
80	1,488 (58 5/8")	–	2,257 (88 7/8")	–	3,030 (119 3/8")
100*	1,640 (64 5/8")	(28 (1 1/8"))	2,769 (109 1/8")	(2,797 (110 1/8"))	3,540 (139 3/8")
120**	1,771 (69 3/4")	(32 (1 5/16"))	3,279 (129 1/8")	(3,311 (130 3/8"))	4,048 (159 3/8")
150	1,999 (78 3/4")	–	4,065 (160 1/8")	–	4,832 (190 1/4")
180	2,197 (86 1/2")	–	4,816 (189 5/8")	–	5,581 (219 3/4")
200	2,333 (91 7/8")	–	5,334 (210")	–	6,097 (240 1/8")
250	2,677 (105 1/2")	–	6,635 (261 1/4")	–	7,396 (291 1/4")
300	3,023 (119 1/8")	–	7,935 (312 1/2")	–	8,694 (342 3/8")

*Sony screen VPS-100FH

**Sony screen VPS-120FH

Installation 2 Floor, Curved screen





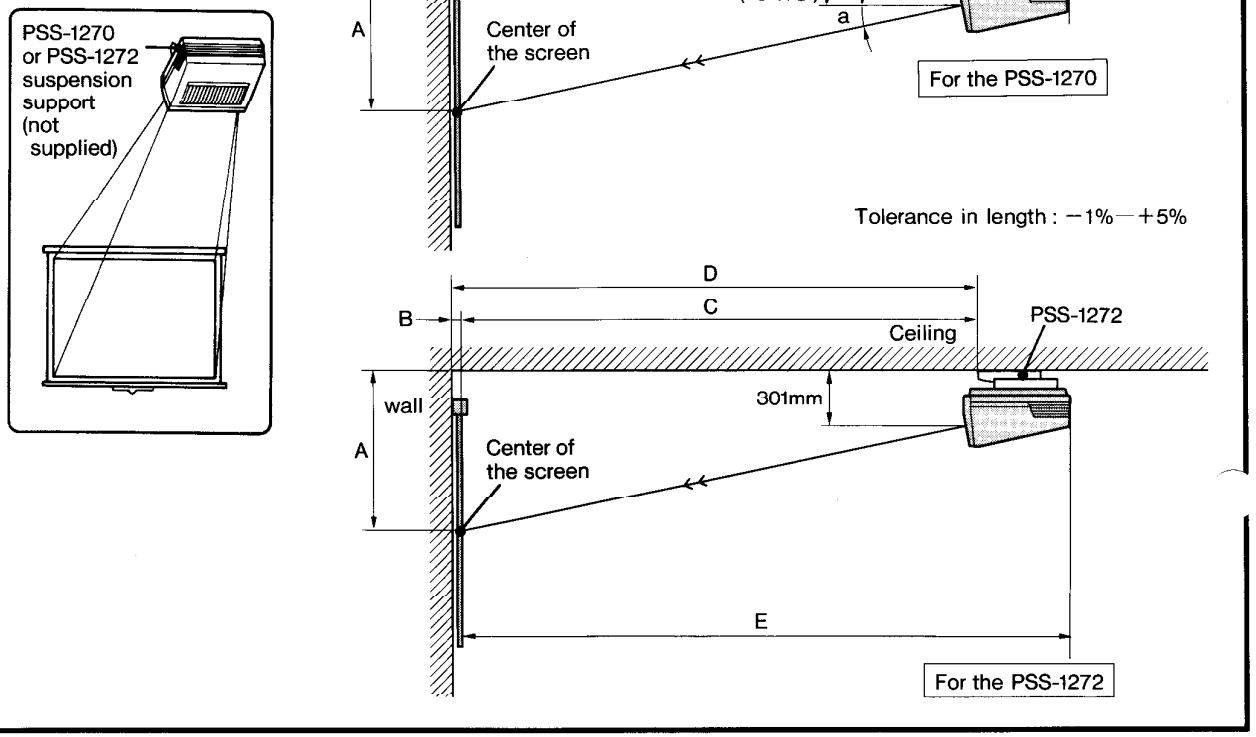
d: The picture is brightest in this area. Tolerance in length: –1% – +5%

Screen size (inches)	Unit: mm (inches)				Angle (°)	
	A	B	C	D	b	d
72*	1,886 (74 3/8")	739 (29 1/8")	2,038 (80 1/4")	2,758 (108 5/8")	18.1	4.5
100**	2,107 (83")	545 (21 1/2")	2,867 (112 7/8")	3,585 (141 1/4")	17.4	3.4

*Sony screen VPS-72HG1
**Sony screen VPS-100HG1

Installation Diagrams

Installation 3 Ceiling, Flat screen



For the PSS-1270

Screen size (inches)	Unit: mm (inches)					Angle(°)
	A	B	C	D	E	a
70	923 (36 3/8")	–	2,318 (91 3/8")	–	2,771 (109 1/8")	14.0
80	988 (39)	–	2,577 (101 1/2")	–	3,030 (119 3/8")	14.0
100*	1,140 (45)	28 (1 1/8")	3,087 (121 5/8")	3,119 (122 7/8")	3,540 (139 3/8")	14.5
120**	1,271 (50 1/8")	32 (1 5/16")	3,595 (141 5/8")	3,627 (142 7/8")	4,048 (159 3/8")	14.5
150	1,499 (59 1/8")	–	4,379 (172 1/2")	–	4,832 (190 1/4")	14.8
180	1,697 (66 7/8")	–	5,128 (202)	–	5,581 (219 3/4")	14.8
200	1.833 (72 1/4")	–	5.644 (222 1/4")	–	6.097 (240 1/8")	14.8
250	2,177 (85 3/4")	–	6,943 (273 3/8")	–	7,396 (291 1/4")	14.8
300	2,523 (99 3/8")	–	8,241 (324 1/2")	–	8.694 (342 3/8")	14.8

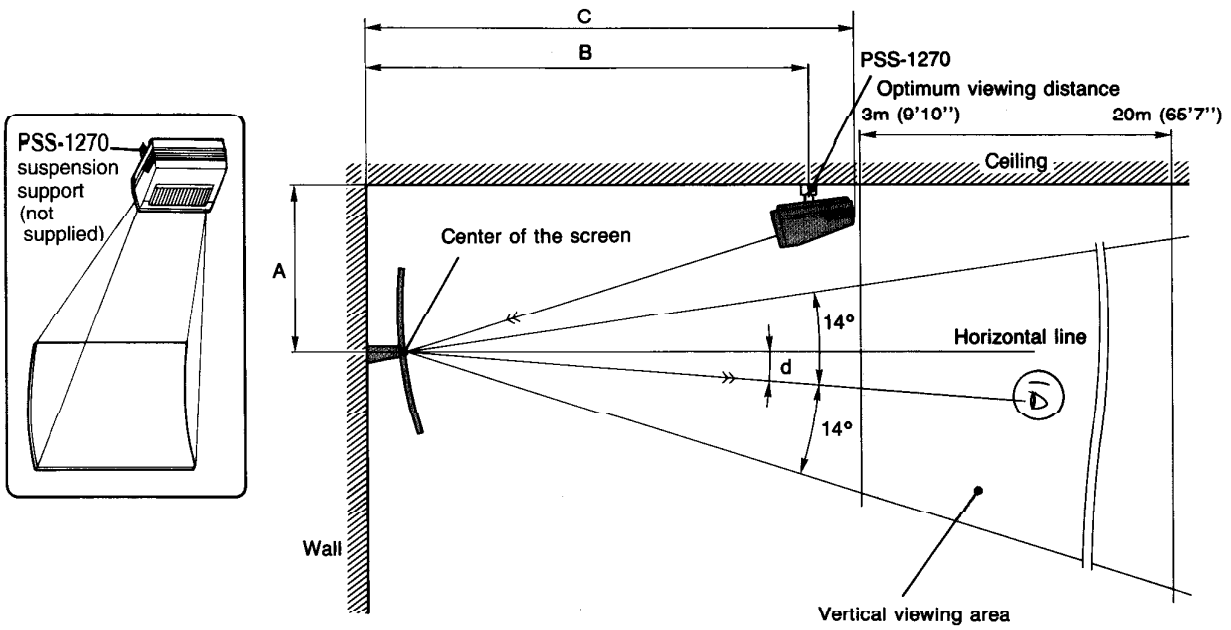
*Sony screen VPS-100FH

**Sony screen VPS-120FH

For the PSS-1272

Screen size (inches)	Unit: mm (inches)				
	A	B	C	D	E
70	798 (31 1/2")	–	2,148 (84 5/8")		2,771 (109 1/8")
80	863 (34)	–	2,407 (94 7/8")	–	3,030 (119 3/8")
100*	1,015 (40)	28 (1 1/8")	2,917 (114 7/8")	2,945 (116)	3,540 (139 3/8")
120**	1,146 (45 1/8")	32 (1 5/16")	3,425 (134 7/8")	3,457 (136 1/8")	4,048 (159 3/8")
150	1,374 (54 1/8")	–	4,209 (165 3/4")	–	4,832 (190 1/4")
180	1,572 (62)	–	4,958 (195 1/4")	–	5,581 (219 3/4")
200	1,708 (67 1/4")	–	5,474 (215 5/8")	–	6,097 (240 1/8")
250	2,052 (80 7/8")	–	6,773 (266 3/4")	–	7,396 (291 1/4"
300	2.398 (94 1/2")	–	8.077 (317 7/8")	–	8.694 (342 3/8")

Installation 4 Ceiling, Curved screen



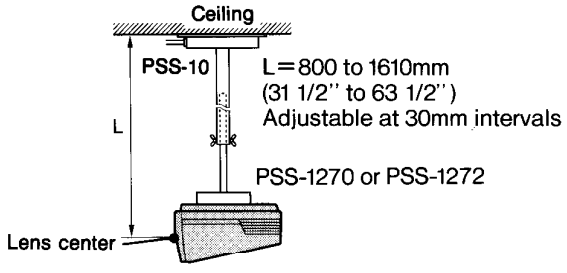
Tolerance in length: –1% – +5%
d: The picture is brightest in this area.

Screen size (inches)	Unit: mm (inches)			Angle (°)
	A	B	C	d
72*	1,271 (50 1/8")	2,477 (97 5/8")	2,965 (116 3/4")	5.5
100**	1,639 (64 5/8")	3,324 (130 7/8")	3,815 (150 1/4")	5.0

*Sony screen VPS-72HG1

**Sony screen VPS-100HG1

To adjust distance between the ceiling and the projector, use the PSS-10 projector suspension support (not supplied) in combination with the PSS-1270 or the PSS-1272.

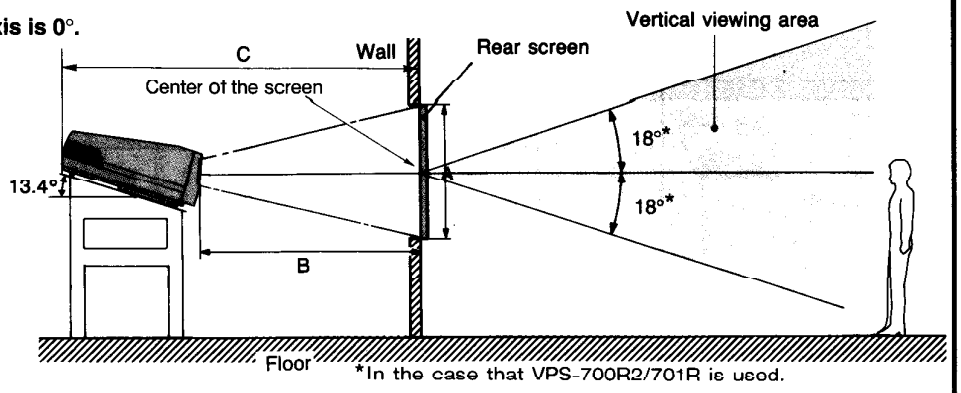


Installation Diagrams

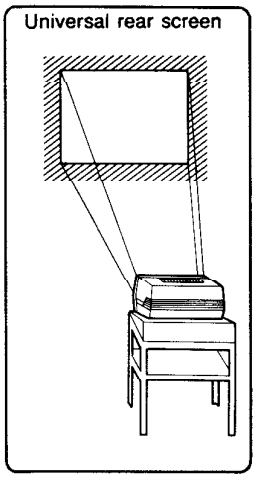
Using the Rear Projection Screen

Installation 5 Rear projection screen

When the angle of optical axis is 0°.



*In the case that VPS-700R2/701R is used.

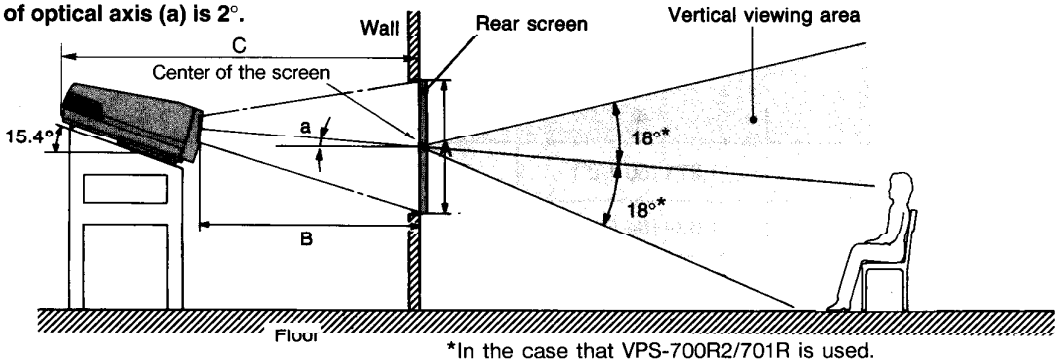


a = 0°

Unit: mm (inches)

Screen size (inches)	A	B	C
70	1,067 (42 1/8")	2,037 (80 1/4")	2,825 (111 1/4")
80	1,219 (48")	2,314 (91 1/8")	3,100 (122 1/8")
100	1,524 (60")	2,829 (111 1/2")	3,612 (142 1/4")
120	1,829 (72 1/8")	3,351 (132")	4,131 (162 3/4")
150	2,286 (90")	4,143 (163 1/8")	4,921 (193 3/4")
180	2,743 (108")	4,929 (194 1/8")	5,706 (224 3/4")
200	3,048 (120")	5,456 (214 7/8")	6,232 (245 3/8")
250	3,810 (150")	6,787 (267 1/4")	7,561 (297 3/4")
300	4,572 (180")	8,118 (319 5/8")	8,890 (350")

When the angle of optical axis (a) is 2°.



*In the case that VPS-700R2/701R is used.

a = 2°

Unit: mm (inches)

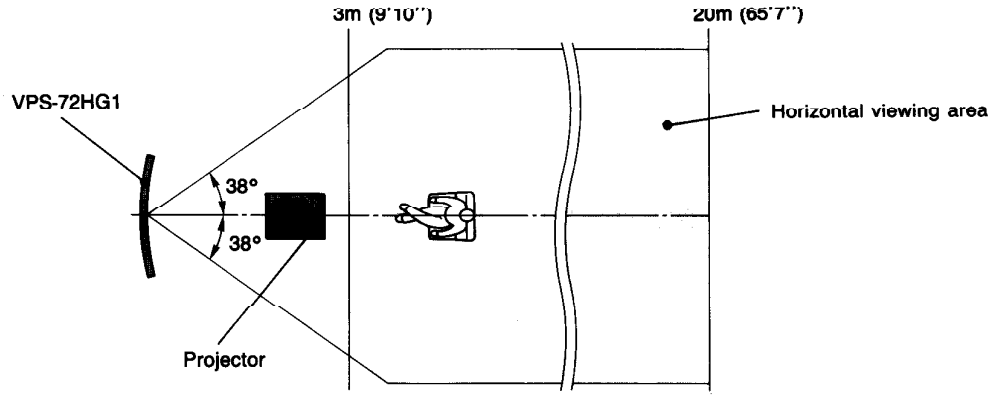
Screen size (inches)	A	B	C
70	1,067 (42 1/8")	2,035 (80 1/8")	2,821 (111 1/8")
80	1,219 (48")	2,334 (92")	3,118 (122 7/8")
100	1,524 (60")	2,826 (111 3/8")	3,607 (142 1/8")
120	1,829 (72 1/8")	3,347 (131 7/8")	4,125 (162 1/2")
150	2,286 (90")	4,153 (163 5/8")	4,929 (194 1/8")
180	2,743 (108")	4,924 (193 7/8")	5,699 (224 3/8")
200	3,048 (120")	5,450 (214 5/8")	6,224 (245 1/8")
250	3,810 (150")	6,779 (267")	7,551 (297 3/8")
300	4,572 (180")	8,109 (319 3/8")	8,880 (349 5/8")

Horizontal Viewing Area for Each Screen

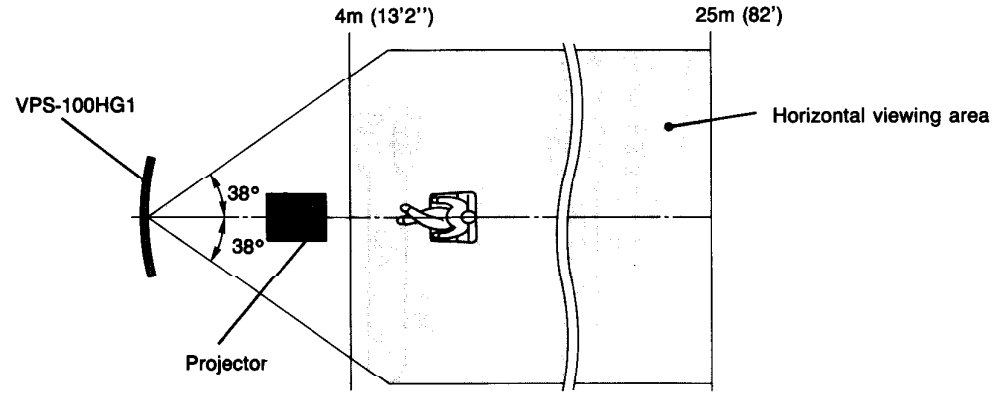
Horizontal viewing area: You can get the brightest picture right in front of the screen. We recommend that you watch the picture from within the colored area.

English

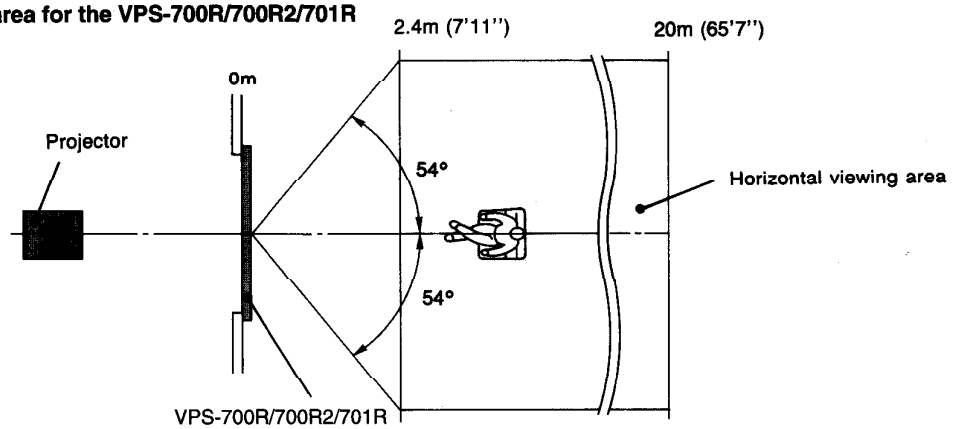
• Horizontal viewing area for the VPS-72HG1



• Horizontal viewing area for the VPS-100HG1



• Horizontal viewing area for the VPS-700R/700R2/701R

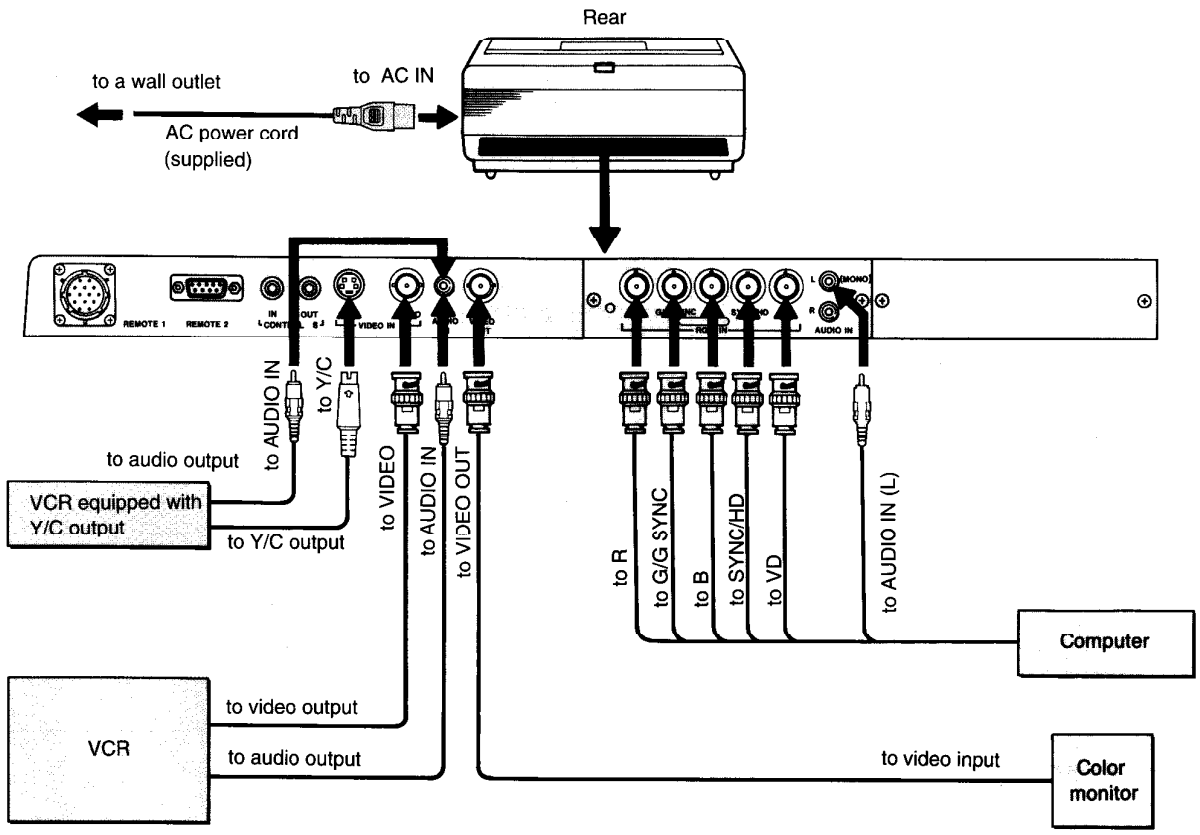


System Connections

Notes on connection

- First make sure that the power of each piece of equipment is turned off.
- Use connecting cables suitable for the equipment to be connected.
- The cable connectors should be fully inserted into the jacks. A loose connection may cause hum and noise.
- To disconnect the cable, pull it out by grasping the plug. Never pull the cable itself.
- For connection to the REMOTE 1 connector, the connecting cable may be extended to maximum 50m for VIDEO input and 25m for RGB input. If the connecting cable is longer than that, picture quality may be impaired somewhat. To extend the connecting cable for RGB input longer than 25m, please consult the qualified Sony personnel.
- Read the instruction manual of the equipment to be connected.

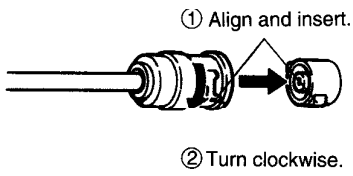
Connecting to the Projector Directly



Notes

- The VIDEO connector is disconnected automatically when a cable is connected to the Y/C connector.
- The external sync signal has priority over the internal sync signal. However, when the external sync signal is incomplete, the internal sync signal has priority.

BNC connector



Notes

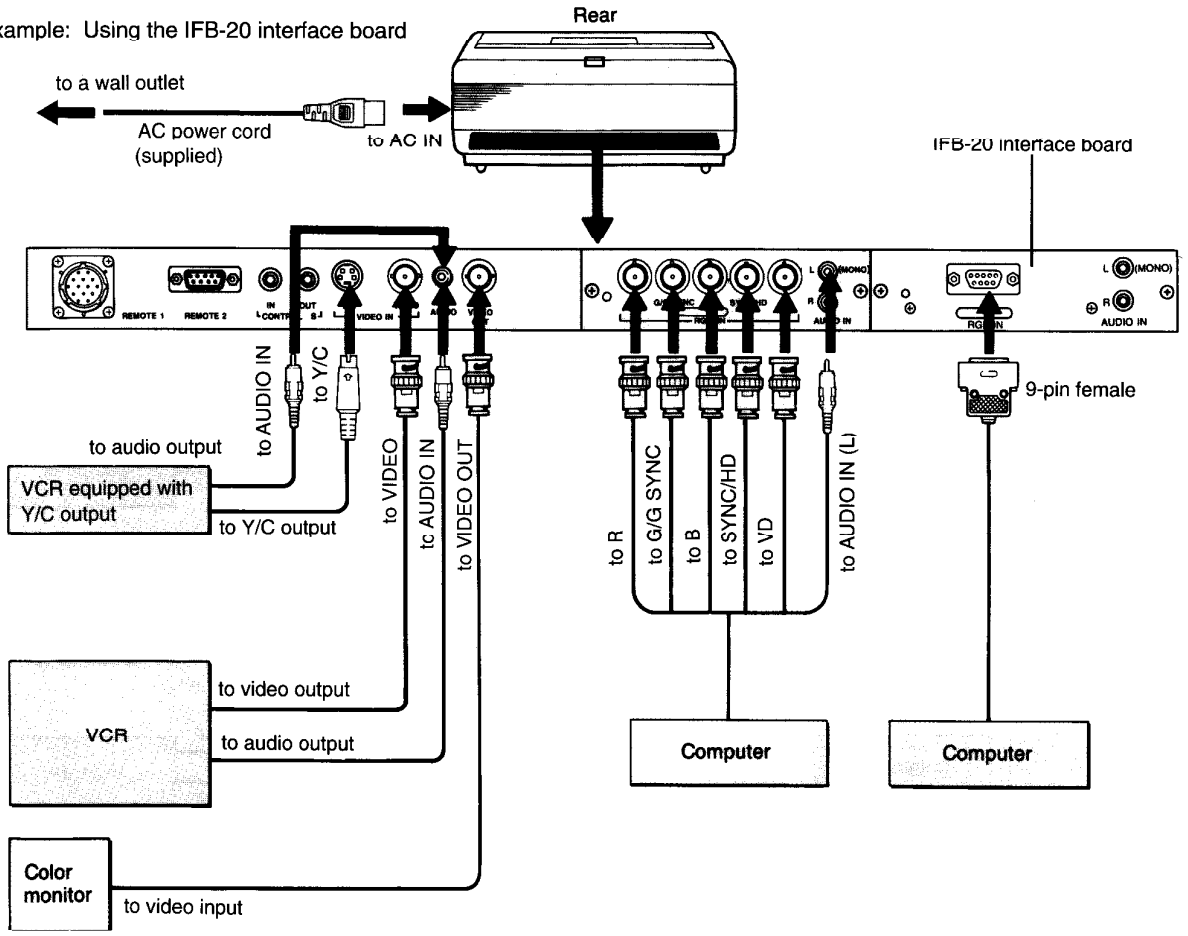
- Do not leave a still picture from a computer or video disc player projected for more than one hour.
- Depending on the computer, the dimensions of the character display area may change or the picture may be uncentered. This is not a fault of the projector.
- If your computer is equipped with a composite video output, connect it to the VIDEO IN VIDEO connector of the projector.
- If necessary, adjust the size and shift of the picture using the RGB SIZE/SHIFT keys and arrow keys (see page 14).

English

Using the Interface Board

Use the optional IFB-11, 20, 30, 1000, 1200 or 1300 interface board to expand the system connections.

Example: Using the IFB-20 interface board

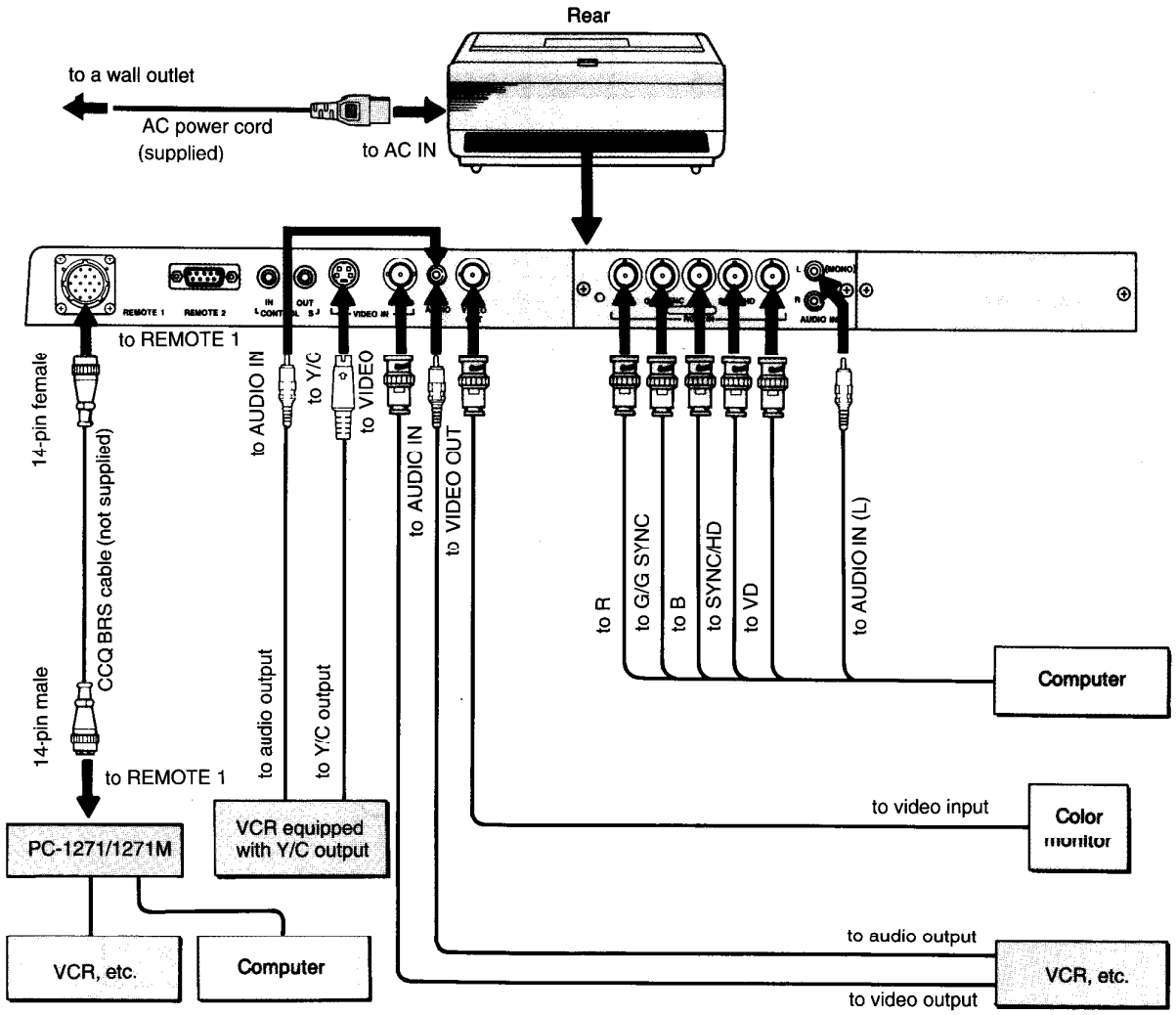


For installing the interface board, consult the qualified Sony personnel.

System Connections

Using the Switcher

Use the optional PC-1271/1271M switcher for connecting various video equipment. The input is selected by pressing the SWITCHER/INDEX keys on the Remote Commander or the SWITCHER keys on the control panel.

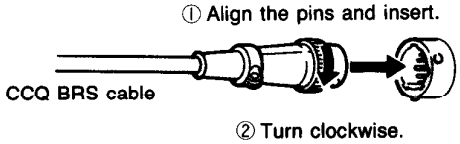


The equipment can be connected to the VIDEO IN and RGB IN connectors of the projector even when the switcher is connected.

Using the SWITCHER/INDEX keys on the Remote Commander or the SWITCHER keys on the control panel

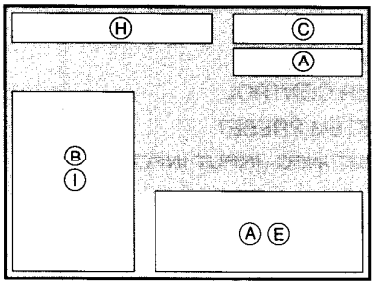
When operating with the Remote Commander, set the SWITCHER/INDEX select switch to SWITCHER. Press the number key from 1 to 8 to select the input number of the switcher. The SECOND key is used when there are two switchers. To control the second switcher (SINGLE/SECOND/OTHER switch is set to SECOND), first press the SECOND key and then the number key.

14-pin connector



List of the Messages

Use the list below to check the meaning of the messages displayed on the screen.
The list is divided into sections according to the location where the message appears. Check the location first, then refer to the corresponding letter for the section to find the message.



Ⓓ, Ⓕ, Ⓖ, Ⓙ and Ⓚ will appear all over the screen.

English

A	Caution, message	
	• Not applicable!	• The key cannot be used in the current mode.
	• Overflow!	• The adjustment data has passed the adjustable range limit, and does not change any more.
	• PIC MUTING	• Picture muting mode is on.
	• Input is not VIDEO.	• The input signal is not VIDEO.
	• Input is not NTSC.	• The input signal is not NTSC.
	• Input is not RGB.	• The input signal is not RGB.
	• Input is B&W.	• The input signal is black and white.
	• NO INPUT	• No signal is input.
	• OFF	• STATUS is set to OFF.
B	**PIC CONTROL data**	
	• CONTR (CONTRAST)	• Contrast
	• COLOR	• Color
	• BRT (BRIGHTNESS)	• Brightness
	• SHARP (SHARPNESS)	• Sharpness
	• HUE	• Hue
	• PIC CONTROL data reset	• Resets the PIC CONTROL data.
C	**Input channel**	
	• VIDEO	• Input from VIDEO IN.
	• INPUT-A	• Input from RGB IN.
	• INPUT-B	• Input from optional interface board.
	• SW'ER x-y (switcher x = 1-2, y = 1-8)	• Input from optional switcher.

List of the Messages

D PAGE	
Subtitle	
• USER PRESET	• User preset
• USER CONTROL	• User control
• SYSTEM PRESET	• System preset
• INPUT INFO (INPUT INFORMATION)	• Input information
PAGE 1	
• STATUS ON/OFF	• On-screen display on/off
• PIC MUTING ON/OFF	• Picture muting mode on/off
• AUDIO MUTING ON/OFF	• Audio muting mode on/off
• CLEAR BLUE ON/OFF/---	• Clear blue mode on/off/does not function
• SECAM ON/OFF/---	• Compulsive SECAM mode on/off/does not function
PAGE 2	
• CONTR (CONTRAST)	• Contrast
• COLOR	• Color
• BRT (BRIGHTNESS)	• Brightness
• SHARP (SHARPNESS)	• Sharpness
• HUE	• Hue
• VOL	• Volume
• PIC CONTROL data reset	• Resets the PIC CONTROL data.
PAGE 3	
• COLOR TEMPERATURE: 9300/6500/3200/PRESET	• Color temperature is set to 9300/6500/3200/the data adjustable by the service personnel
• CLAMP: AUTO / S on G / H/ C / H.P	• Clamp position is set to automatic/internal/external sync signal/horizontal deflection pulse position.
• V-SHIFT: WIDE/ NARROW	• The adjustable range of the vertical shift is wide/narrow.
PAGE 4	
• INPUT SIGNAL	• Input signal
• Y/C	• S video input signal from VIDEO IN
• RGB	• RGB input signal
• NTSC	• NTSC input signal from VIDEO IN
• PAL	• PAL input signal from VIDEO IN
• SECAM	• SECAM input signal from VIDEO IN
• B&W	• Black and white input signal from VIDEO IN
• f_H	• Horizontal frequency
• f_V	• Vertical frequency
• Internal oscillation	• Internal oscillation mode (No signal is input.)

D	PAGE	
	• H/C-SYNC	• Horizontal sync signal or composite sync signal
	• V-SYNC	• Vertical sync signal
	• SYNC ON G	• Composite video signal
	• H/C-SYNC: POS/NEG/---	• The polarity of the H/C-SYNC is positive/negative/not input.
	• V-SYNC. POS/NEG/---	• The polarity of the V-SYNC is positive/negative/not input.
	• SYNC ON G: NEG/---	• The polarity of the SYNC ON G is negative/not input.
	• REGI BLOCK: NO. x	• The input signal is grouped into the registration memory block No. x.
E	**Operation**	
	• YES: ▲	• Press ▲ key for "Yes".
	• NO: ▼	• Press ▼ key for "No".
	• SELECT: ◀▶	• Press ◀ or▶ key to select.
	• SELECT: ◀▶▲▼	• Press ◀ , ▶, ▲ or ▼ key to select.
	• ADJ: ◀▶▲▼	• Press ◀ , ▶, ▲ or ▼ key to adjust.
	• ADJ: ◀▶	• Press ◀ or ▶ key to adjust.
	• ADJ: ▲ ▼	• Press ▲ or ▼ key to adjust.
	• NEXT: [PAGE]	• Press PAGE key to change to the next page.
	• EXIT: [PAGE]	• Press PAGE key to exit the PAGE mode.
F	**Memory data**	
	• MEMORY DATA in saving.	• Saving the memory data now.
	• MEMORY DATA saving is complete!	• Saving the memory data is completed.
	• No key may be applicable during the indication of this mode.	• When in this mode (MEMORY DATA saving), no key functions.
G	**Data reset**	
	• Do you wish to return to factory preset data?	• Do you wish to reset the data to the factory preset data?
	• Reset complete!	• Resetting is completed.
	• RGB SIZE DATA RESET MODE	• RGB or video input size data resetting mode
	• RGB SHIFT DATA RESET MODE	• RGB input shift data resetting mode
H	**Adjustment**	
	• RGB SIZE ADJ	• RGB or video input size adjustment mode
	• RGB SHIFT ADJ	• RGB input shift adjustment mode
	• R CENT ADJ	• Red centering adjustment mode
	• B CENT ADJ	• Blue centering adjustment mode

List of the Messages

I	Adjustment mode
• H: xxx	• Horizontal adjustment level (xxx=0-255)
• V: xxx	• Vertical adjustment level (xxx=0-255)
• Hf: xxx	• Centering adjustment level for horizontal direction (xxx=0-255) The level changes with the arrow keys pressed once.
• Hc: xxx	• Centering adjustment level for horizontal direction (xxx=0-255) The level changes with the arrow keys kept pressed.
• Vf: xxx	• Centering adjustment level for vertical direction (xxx=0-255) The level changes with the arrow keys pressed once.
•Vc: xxx	• Centering adjustment level for vertical direction (xxx=0-255) The level changes with the arrow keys kept pressed.

J	Caution, Message (VPH-1252Q/1252QM only)
• fH is too high! This input signal cannot be projected as the horizontal frequency is too high.	• The horizontal frequency is too high. This input signal cannot be projected as the horizontal frequency exceeds the acceptable level of the projector.

K	Others
• For optimum performance, white screen will remain for 20 min. For immediate use, push [PAGE] key.	• For optimum performance, white screen will remain for 20 min. For immediate use, push [PAGE] key.

Specifications

Optical

Projection system 3 picture tubes, 3 lenses, Horizontal inline system

Picture tube 7-inch new high-brightness monochrome tubes, with coolant sealed

Projection lens HACC (High-resolution Aspherical and Color Corrected) lenses
F 1.12/140mm

Projected picture size Factory-adjusted to 120 inches measured diagonally
70-300 inches measured diagonally adjustable by changing the parts

Light output 700 lm (white peak)
200 lm (all white)

General

Color system NTSC, PAL, SECAM and NTSC4.43 systems, switched automatically

Resolution 700 TV lines (VIDEO input)
VPH-1272Q/1272QM:
1500 x 1200 pixels
(RGB input at f_H: 74.4kHz, f_V: 60Hz)
VPH-1252Q/1252QM:
1500 x 1200 pixels
(RGB input at f_H: 46.7kHz, f_V: 38Hz)

RGB inputs Horizontal frequency
VPH-1272Q/1272QM:
15kHz–93kHz
VPH-1252Q/1252QM:
15kHz–61.5kHz
Vertical frequency 38Hz–150Hz

Test signal Cross-hair test pattern generator is incorporated.

Speaker 4x8cm (1 5/8x3 1/4 inches), 3W

Inputs

VIDEO input

VIDEO IN
Y/C: 4-pin mini DIN connector
Y (luminance) signal:
1 Vp-p ±2dB, sync negative, 75 ohms terminated
C (chrominance) signal:
burst 0.286 Vp-p±2dB, 75 ohms terminated (NTSC)
0.3 Vp-p±2dB, 75 ohms terminated (PAL)
VIDEO: BNC connector
Composite video input, 1 Vp-p ±2dB, sync negative, 75 ohms terminated.

AUDIO IN
phono jack
500 m Vrms, Impedance: more than 47 k ohms

RGB input

R: BNC connector
Red input, 0.7 Vp-p ±2dB, 75 ohms terminated, positive
G/G SYNC: BNC connector
Green input, 0.7Vp-p ±2dB, 75 ohms terminated, positive
Green with sync input, 1Vp-p ±2dB, 75 ohms terminated, positive
B: BNC connector
Blue input, 0.7Vp-p ±2dB, 75 ohms terminated, positive
SYNC/HD: BNC connector
Composite sync input, 0.3–8Vp-p, high impedance, positive/negative
Horizontal sync input, 0.3–8Vp-p, high impedance, positive/negative
VD: BNC connector
Vertical sync input, 0.3–8Vp-p, high impedance, positive/negative
Width: wider than horizontal period (1H)
AUDIO IN L(MONO)/R: phone jacks
REMOTE 1 connector: 14-pin (see "Signal assignment")
REMOTE 2 connector: 9-pin (see "Signal assignment")
CONTROL S IN: minijack, 5Vp-p

Outputs
VIDEO OUT: BNC connector
Composite video output, 1Vp-p ±2dB, impedance 75 ohms, output video signal from the VIDEO IN connector
CONTROL S OUT: minijack, 5Vp-p

Power requirements VPH-1272Q/1252Q:
120 V AC, 50/60Hz
VPH-1272QM/1252QM:
220–240 V AC, 50/60Hz

Power consumption VPH-1272Q : 560 W
VPH-1272QM : 540 W
VPH-1252Q : 520 W
VPH-1252QM : 500 W

Operating temperature –10°C –+40°C (humidity: 10%–90%)

Storage temperature –20°C –+60°C (humidity: 10%–90%)

Dimensions Approx. 620x355x817mm (w/h/d) (24 1/2x14x32 1/4 inches)

Weight VPH-1272Q/1272QM:
64kg (141 lb 2 oz)
VPH-1252Q/1252QM:
63kg (138 lb 14 oz)

Specifications

Accessories supplied Remote Commander RM-1271 (1)
with 3 AA (R6) batteries
Remote Commander cable (1)
AC power cord (1)
Washer for optical axis adjustment
(12 each for 4 sorts of thickness)
CRT spacers (1set each for the
size S and L)
Spacer for rear projection
(1 set each for the angles of optical
axis 0° and 2°)

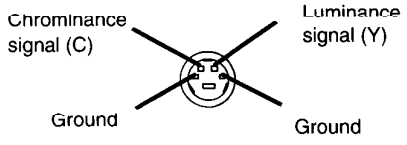
Design and specifications are subject to change without notice

Accessories (not supplied)

Signal interface switcher
PC-1271/1271M
Projector suspension supports
PSS-1270, PSS-1272, PSS-10
Screens VPS-100FH (100" flat)
VPS-120FH (120" flat)
VPS-72HG1 (72" curved)
VPS-100HG1 (100" curved)
VPS-700R2, VPS-701R
(70" rear projection)
Interface cables CCQ BRS cables
(14-pin 2/5/10/25/50 m)
SIC-M cables
(14-pin 1/5/15/25/50 m)
Interface boards IFB-11 (5BNC, analogue RGB inputs)
IFB-20 (D-sub 9-pin, analogue RGB input)
IFB-30 (D-sub 9-pin, digital RGB input)
IFB-1000 (BNC, video input/mini DIN 4-pin, S-video input)
IFB-1200 (3BNC, component inputs)
IFB-101 (index board)
Interface unit IFU-1271/1271M

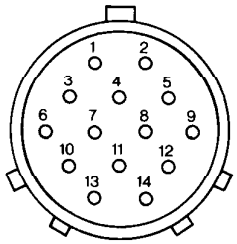
Signal assignment

Y/C connector (4-pin mini DIN)



REMOTE 1 connector (14-pin)

Pin No.	Signal
1	GND
2	HD/Composite Sync
3	SIRCS
4	NC
5	GND(SIRCS)
6	B/C
7	GND(B/C)
8	GND(G/Y)
9	G/Y
10	RGB/Video
11	R/Composite Video
12	Composite Video/YC
13	AUDIO
14	VD



REMOTE 2 connector (D-sub 9-pin)

Pin No.	Signal
1	Frame Ground
2	$\overline{\text{Transit A}}$
3	Receive B
4	Receive Common
5	Spare
6	Transmit Common
7	Transmit B
8	$\overline{\text{Receive A}}$
9	Frame Ground

RS-422 format