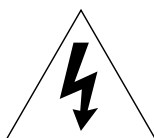
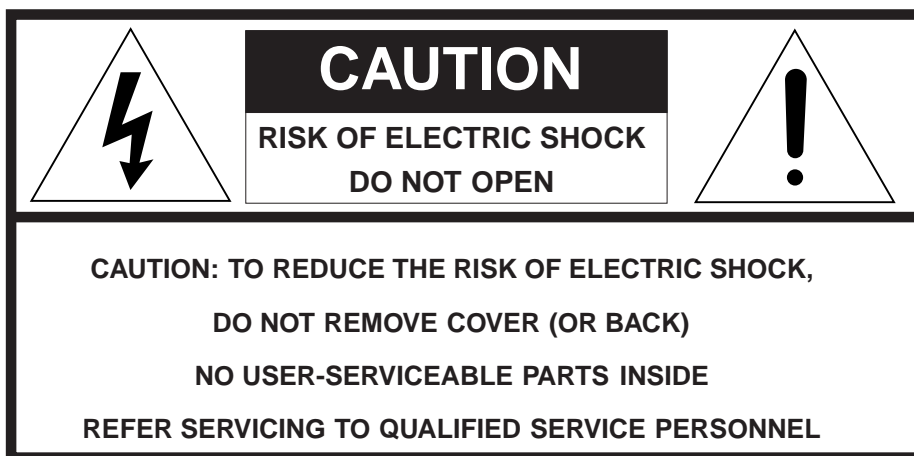


marantz®

Model VP8100 User Guide

Video Projector



The lightning symbol in the triangle, is intended to alert the user to the presence of uninsulated “dangerous voltage” within the product’s enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation mark in the triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING

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

**CAUTION: TO PREVENT ELECTRIC SHOCK, MATCH WIDE
BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.**

**ATTENTION: POUR ÉVITER LES CHOCS ÉLECTRIQUES,
INTRODUIRE LA LAME LA PLUS LARGE DE LA FICHE DANS LA
BORNE CORRESPONDANTE DE LA PRISE ET POUSSER
JUSQU'AU FOND.**

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.

- Reorient or relocate the receiving antenna.
- Keep an appropriate distance between the equipment and the receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

NOTE:

Changes or modifications may cause this unit to fail to comply with Part 15 of the FCC Rules and may void the user's authority to operate the equipment.

For the customers in Canada:

This class A digital apparatus meets all requirements of the Canadian Interference-Causing Equipment regulations.

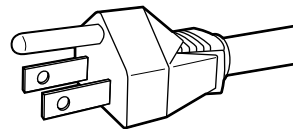
IMPORTANT SAFETY INSTRUCTIONS

READ BEFORE OPERATING EQUIPMENT

This product was designed and manufactured to meet strict quality and safety standards. There are, however, some installation and operational precautions which you should be particularly aware of.

1. **Read Instructions:** All the safety and operating instructions should be read before the appliance is operated.
2. **Retain Instructions:** The safety and operating instructions should be retained for future reference.
3. **Heed Warnings:** All warnings on the appliance and in the operating instructions should be adhered to.
4. **Follow Instructions:** All operating and use instructions should be followed.
5. **Cleaning:** Unplug this video product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.
6. **Attachments:** Do not use attachments not recommended by the video product manufacturer as they may cause hazards.
7. **Water and Moisture:** Do not use this video product near water—for example, near a bath tub, wash bowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool, and the like.
8. **Accessories:** Do not place this video product on an unstable cart, stand, tripod, bracket, or table. The video product may fall, causing serious injury to a child or adult, and serious damage to the appliance. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the video product. Any mounting of the appliance should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer.
9. **Ventilation:** Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the video product and to protect it from overheating, and these openings must not be blocked or covered. The openings should never be blocked by placing the video product on a bed, sofa, rug, or other similar surface. This video product should never be placed near or over a radiator or heat register. This video product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.
10. **Power Sources:** This video product should be operated only under the type of power source indicated on the marking label. If you are not sure of the type of power supply for your home, consult the appliance dealer or a local power company. For video products intended to operate from battery power, or other sources, refer to the operating instructions.

11. **Grounding or Polarization:** The precautions should be taken so that the grounding or polarization means of an appliance is not defeated.



AC POLARIZED PLUG

12. **Power-Cord Protection:** Power-supply cords should be routed so that they are not likely to be stepped on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the appliance.
13. **Protective Attachment Plug:** The appliance is equipped with an attachment plug having overload protection. This is a safety feature. See Instruction Manual for replacement or resetting the protective device. If the plug needs to be replaced, be sure that the service technician has used a replacement plug specified by the manufacturer that has the same overload protection as the original plug.
14. **Lighting:** Under the unusual circumstances, such as during a lighting storm, or when it is left unused for a long period of time, unplug it from the wall outlet to disconnect the antenna or cable system. This will prevent damage to the video product due to lightning and power-line surges.
15. **Power Lines:** An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.
16. **Overloading:** Do not overload wall outlets and extension cords as this can result in a risk of fire or electric shock.
17. **Object and Liquid Entry:** Never push objects of any kind into this video product through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the video product.

18. **Servicing:** Do not attempt to service this video product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to a qualified service personnel.
19. **Damage Requiring Service:** Unplug this video product from the wall outlet and refer servicing to a qualified service personnel under the following conditions:
 - a. When the power supply cord or plug is damaged.
 - b. If liquid has been spilled, or objects have fallen into the video product.
 - c. If the video product has been exposed to rain or water.
 - d. If the video product does not operate normally by following the operating instructions, adjust only those controls that are covered with the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the video product to its normal operation.
 - e. If the video product has been dropped or the cabinet has been damaged.
 - f. When the video product exhibits a distinct change in performance which may require further assistance.
20. **Replacement Parts:** When replacement parts are required, be sure that the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock or other hazards.
21. **Safety Check:** Upon the completion of any service or repairs to this video product, ask a service technician to perform safety checks to determine that the video product is in proper operating condition.
22. **Carts and Stands:** The appliance should be used only with a cart or stand that is recommended by the manufacturer.
23. An appliance and cart combination should be handled with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.



24. When the projector is mounted on the ceiling, the Ceiling Mount Kit approved by MARANTZ must be used for installation.
25. Do not look into the lens when the projector is turned on. It could damage your eyesight.
26. Unplug the projector from the wall outlet if it is not to be used for a few days.

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FEATURES

Excellent video quality

- The MARANTZ progressives scan (3D motion adaptive line doubling) technology provides natural and clear video quality.
- The MARANTZ 3D-Y/C separation technology ensures clear screen image without blur in color.
- The Marantz Two to Three Pull Down film detection technology ensures to depict the most natural moments of objects projected in the recorded film format.
- The MARANTZ digital technology and DLP™ technology ensure vivid and true color reproduction, and accurate gray scale to the greatest degree as possible.
- The newly developed optical system and new DLP™ technology allow a high contrast ratio (500:1), high brightness (700 ANSI lumen) and excellent uniformity throughout the screen.

Widescreen flexibility

- The unit allows the user to enjoy both 16:9 and 4:3 screen images at aspect ratio.

Ready for DVD and HDTV

- The COMPONENT VIDEO INPUT IN terminal is ideally corresponds to DVD and HDTV (1080i, and 720p). This input ensures the highest video quality.
- The COMPONENT VIDEO INPUT IN terminal corresponds to DVD. It also corresponds to the squeeze signal, the progressive signal for DVD.

Picture mode and picture memory

- The unit has three picture modes: THEATER, NORMAL and DYNAMIC. Furthermore, the unit has three kinds of memory in each picture mode: THEATER1, THEATER2 and THEATER3. This allows the users to enjoy the fine tuned pictures for personal preference.

Direct access buttons (Remote controller)

The remote controller provides direct access buttons for those functions that are most often used.

- POWER ON
- STANDBY

Input Select

- COMPONENT
- S-VIDEO
- VIDEO
- RGB

Picture Mode

- THEATER
- NORMAL
- DYNAMIC

Menu

- MENU
- ENTER

Aspect

- FULL
- SQUEEZE
- 4:3
- ZOOM

Others

- OSD
- 2-3P/D
- B-LIGHT
- P-SHIFT
- V-MUTE

Sophisticated Design

- The sophisticated form and its color fit any room to create the most comfortable space in memory.

Compact Size

- The compact and light body is easy to carry and set up.

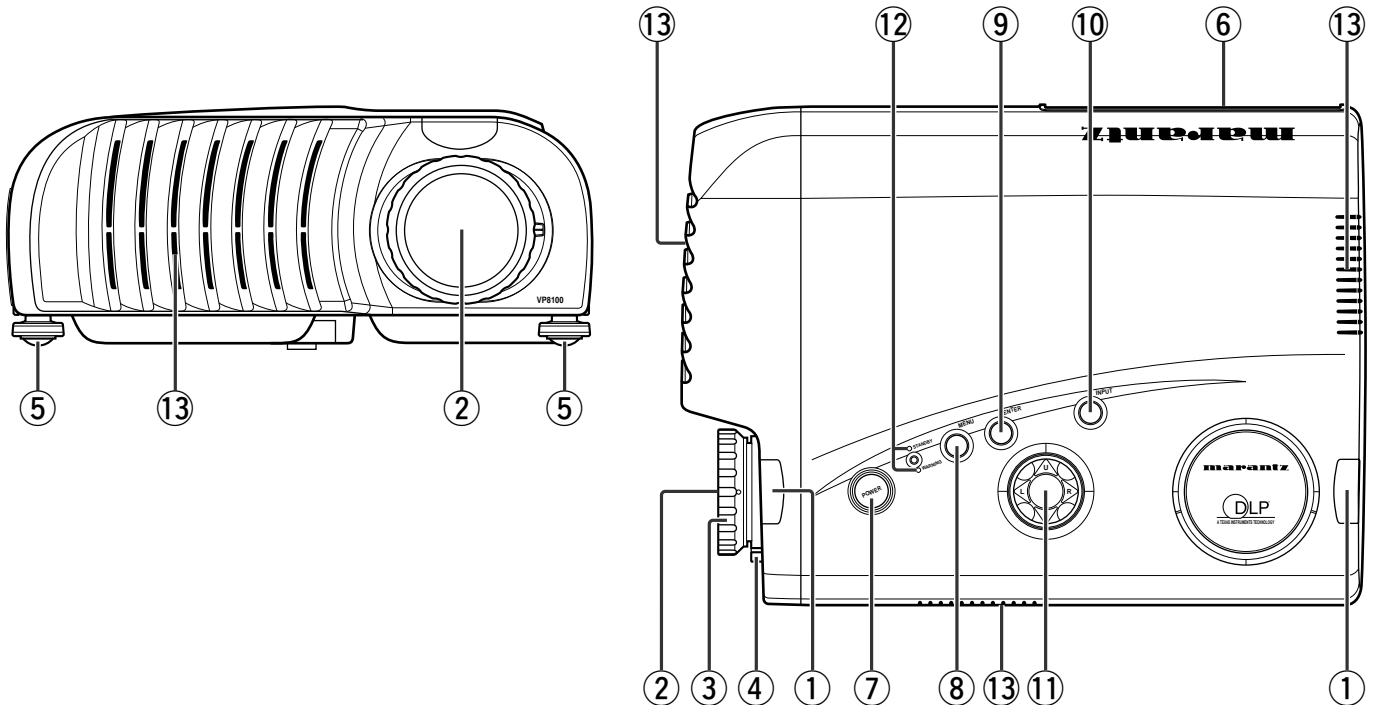
Computer Capability

- The unit is ready for for computer use in VGA, SVGA, and XGA.

- DLP™ and DMD™ are registered trademarks of Texas Instruments Incorporated.
- Even if no trademarks are indicated, they are greatly valued.

PROJECTOR LAYOUT AND FUNCTIONAL OVERVIEW

Front and Top



① **IR sensor (one for each front and rear)**

② **Lens**

③ **Focus ring**

Adjust the picture focus.

④ **Zoom ring**

Adjust the size of the projected image.

⑤ **Adjusters**

Adjust the vertical angle of the projector.

⑥ **Connector panel**

⑦ **POWER key**

Press to turn the projector on and off. The POWER key lights up in green when the power is turned on.

⑧ **MENU key**

Press to display the on-screen menu.

⑨ **ENTER key**

Press to enter items in the menu when the menu is displayed on screen.

⑩ **INPUT SELECT key**

Select an input signal. Each time the key is pressed, the unit toggles between COMPONENT, S-VIDEO, VIDEO, and RGB inputs.

⑪ **The ▲/▼/◀/▶ keys**

Control the menu cursor.

Press the ▲ key for more than three seconds to turn the HIGH BRIGHT mode on.

Press the ▼ key to turn the HIGH BRIGHT mode off.

Note:

The HIGH BRIGHT mode is available for only the RGB or the DYNAMIC picture mode for a video signal input.

⑫ **Indicators: STANDBY/WARNING**

Turn green when the projector is connected to AC power. It lights up or flashes orange under the following conditions:

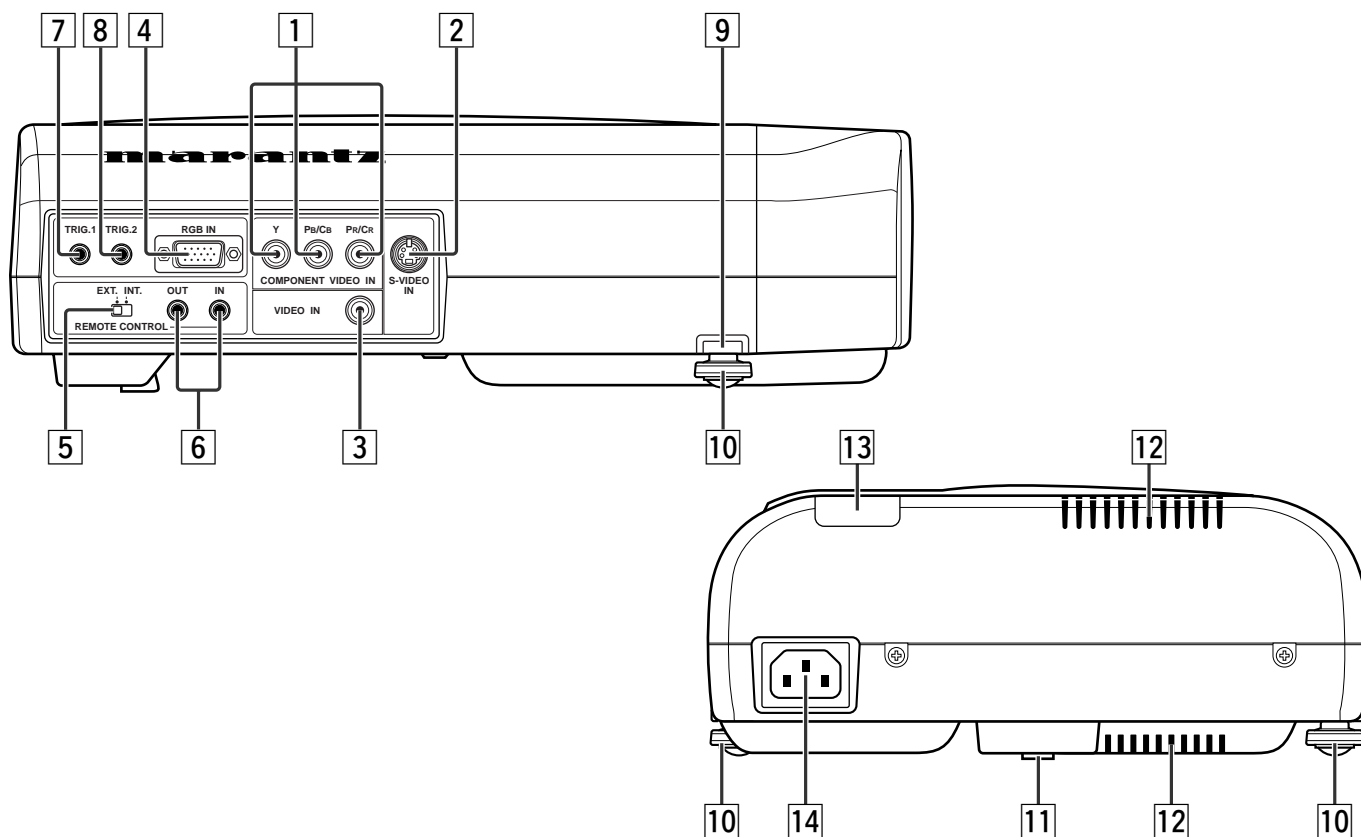
- Lights up orange when temperature inside the projector becomes unusually high.
- Flashes orange when the following errors occur in the projector:
 - when the lamp cover is not secured firmly,
 - when the fan inside the projector stops,
 - when the lamp has failed or the lamp is almost completely worn-out.

⑬ **Ventilation holes**

Notes:

- Do not place anything near the ventilation holes as it may cause internal heat build-up.
- Do not place your hand or objects near the ventilation holes; the air coming out is hot.

Connector panel and Rear



1 COMPONENT VIDEO IN

Y, Pb/Cb, Pr/Cr connectors.

Connect to the COMPONENT VIDEO output of video equipment or an A/V processor/receiver with a component video loop.

2 S-VIDEO IN

Connect to the S-VIDEO output of a video equipment.

3 VIDEO IN

Connect to the composite video output of a video equipment.

4 RGB IN

Connect to the analog RGB output of a computer equipment.

5 REMOTE SW. (EXTERNAL/INTERNAL)

When using the MARANTZ REMOTE CONTROL system, select EXTERNAL. Otherwise select INTERNAL.

6 REMOTE CONTROL IN/OUT

Connect to the REMOTE CONTROL connectors of other Marantz equipment. It is then possible to control the whole system with a single Remote Controller.

7 TRIG.1 OUT

When the projector is turned on, a 12-volt signal is sent to the equipment connected to the TRIG.1 OUT. This allows automatic triggering of an accessory, such as a powered up/down screen, whenever the projector is turned on or off. When the unit is turned off, no voltage is output and when the unit is turned on, 12 V is output.

Note:

You cannot use the connector as the power source.

8 TRIG.2 OUT

Either a 12-volt signal or a 0-volt signal is sent to the equipment connected to the TRIG.2 OUT, according to the setting in the OSD menu.

Note:

This cannot be used for these connectors, TRIG.1 OUT and TRIG.2 OUT, as the power source.

9 Adjuster button

When using adjuster, press the button and loosen an adjuster.

10 Adjuster

11 Rear adjuster

Adjust the vertical angle of the projector.

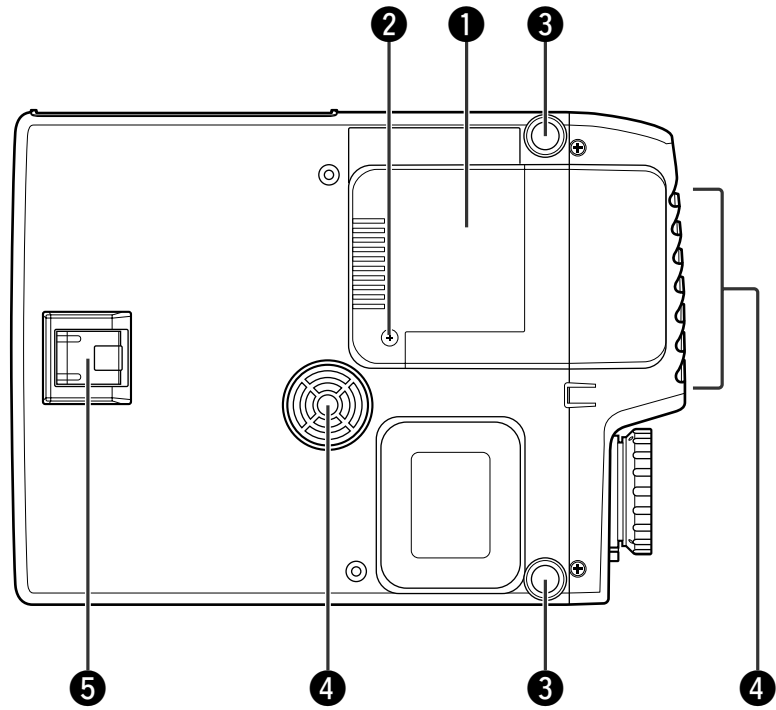
12 Ventilation holes

13 IR sensor

14 AC IN

Connect the supplied AC power cord.

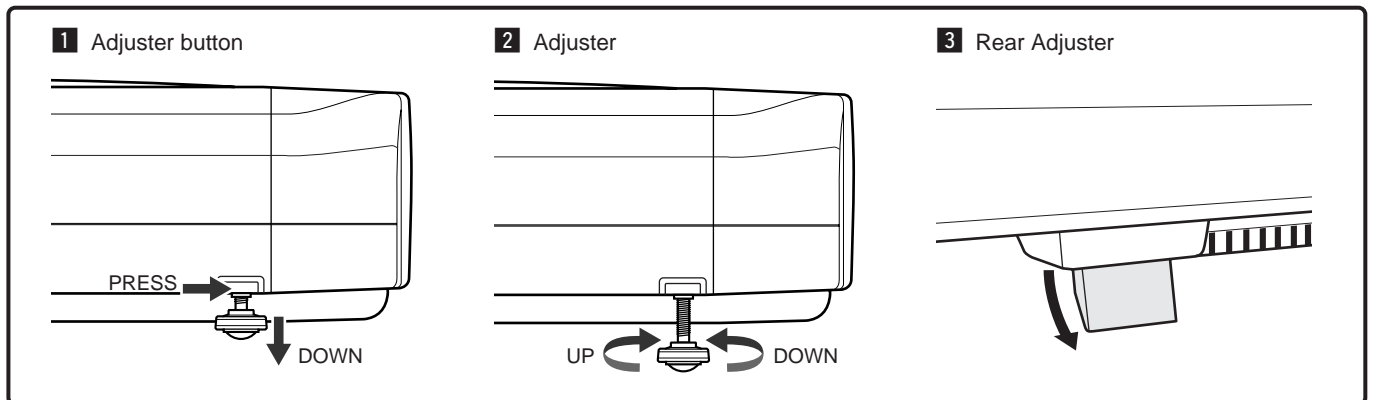
Bottom



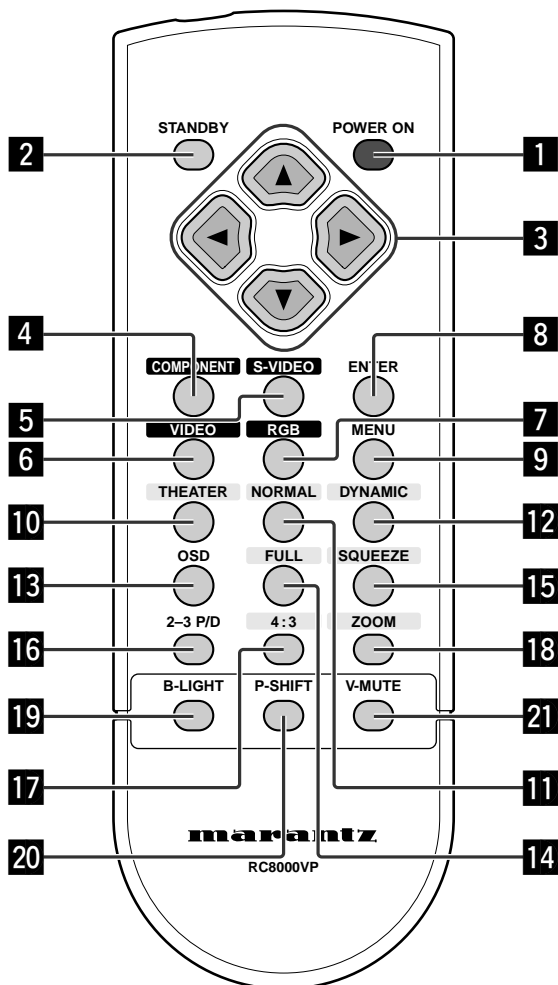
- ❶ Lamp cover
- ❷ Lamp cover securing screw
- ❸ Adjuster
- ❹ Ventilation hole
- ❺ Rear adjuster

Adjusters

How to use adjuster, adjuster button, and rear adjuster.



Remote Controller



1 POWER ON key

Press to turn the projector on.

2 STANDBY key

Press to turn the projector off.

3 ▲/▼/◀/▶ keys

4 COMPONENT key

Select the COMPONENT VIDEO IN signal.

5 S-VIDEO key

Select the S-VIDEO IN signal.

6 VIDEO key

Select the VIDEO IN signal.

7 RGB key

Select the RGB IN signal.

8 ENTER key

9 MENU key

10 THEATER key

Select the THEATER picture mode.

The key toggles between THEATER1, THEATER2, THEATER3 and THEATER STD.

11 NORMAL key

Select the NORMAL picture mode.

The key toggles between NORMAL1, NORMAL2, NORMAL3 and NORMAL STD.

12 DYNAMIC key

Select the DYNAMIC picture mode.

The key toggles between DYNAMIC1, DYNAMIC2, DYNAMIC3 and DYNAMIC STD.

13 OSD key

When the key is pressed, projector setting information is displayed. Press again to display the FOCUS pattern. Then press again to clear the FOCUS pattern.

14 FULL key

Select FULL mode, from four aspect ratio mode.

15 SQUEEZE key

Press to turn the SQUEEZE mode on and off. When the video signal is squeezed, turn the SQUEEZE mode on. This mode is intended to use with "Anamorphic" picture material. If you are using an Anamorphically squeezed DVD or Laser Disc, this mode will "unsqueeze" the image to give proper picture geometry and enhanced resolution.

16 2-3 P/D key

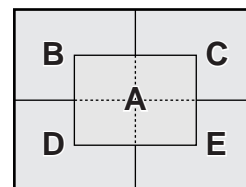
Press to turn the two to three pull down mode - automatic film detection mode - on and off.

17 4:3 key

Select a mode from four aspect ratio modes.

18 ZOOM key

Select ZOOM mode from four aspect ratio modes.



19 B-LIGHT key

Press to turn on or off the back-lighting of keys on the unit.

20 P-SHIFT key

Press to turn the picture shift mode on or off. When adjusting the image position vertically, use ▲ and ▼ keys. When adjusting the image position horizontally, use ▲ and ▼ keys.

21 V-MUTE key

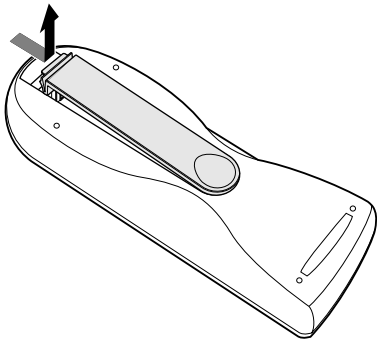
Mute the picture so that screen gets dark and no image is displayed.

Note:

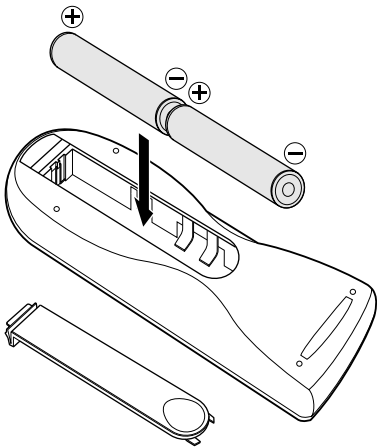
FULL key, SQUEEZE key, 4:3 key, ZOOM key, 2-3 P/D key, and P-SHIFT key are available for only COMPONENT VIDEO IN, S-VIDEO IN, VIDEO-IN, and RGB IN(VGA) only.

Preparing the Remote Controller

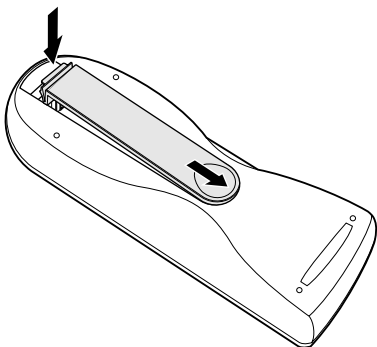
1. Open the cover.



2. Insert batteries (AA).
Make sure to match the + and - marks on the batteries with inside the battery component.



3. Close the cover.



CAUTION

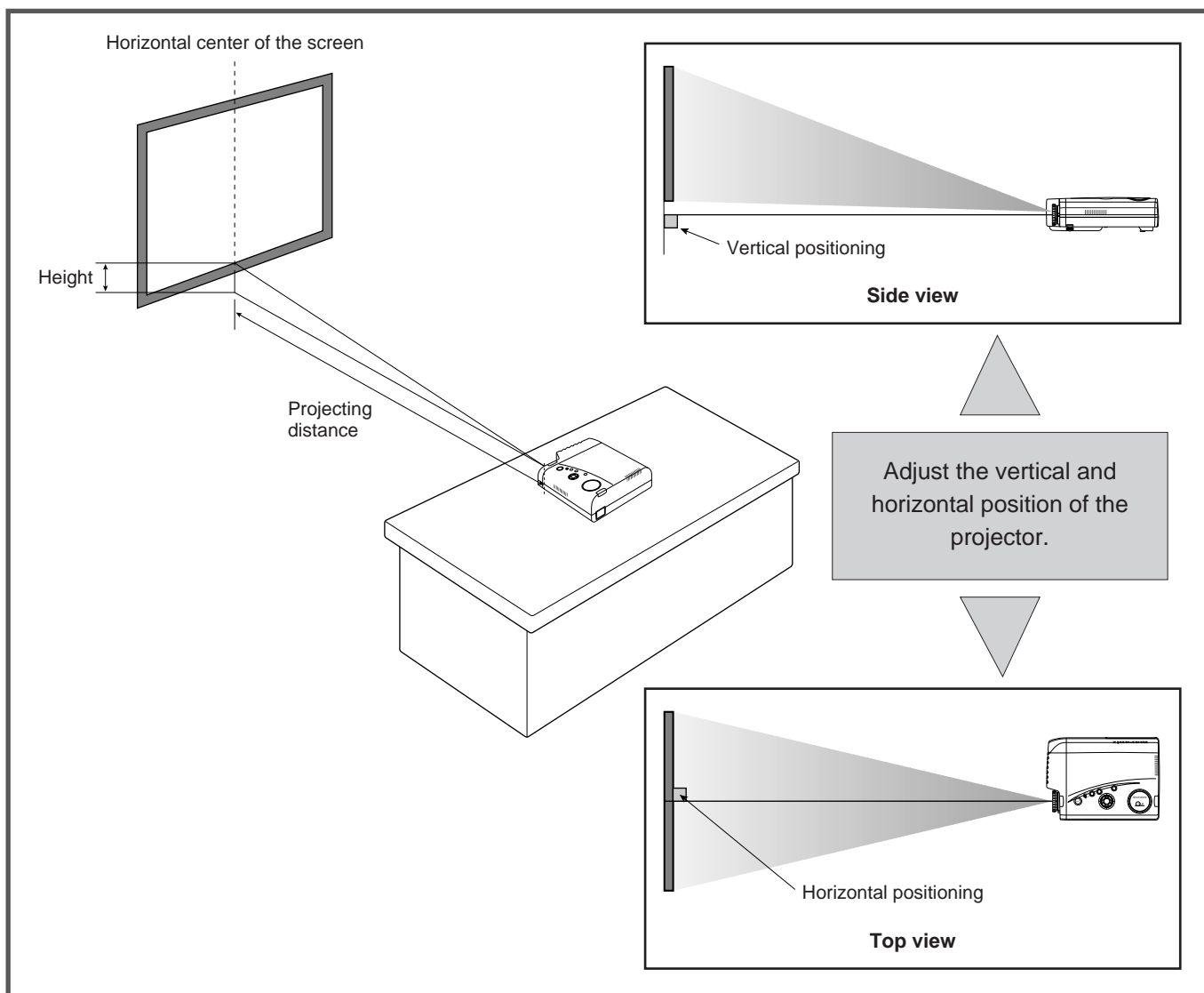
- Do not mix old and new batteries, and never mix different types of batteries (standard, alkaline and so on).
- If the user does not intend to use the Remote Controller for a long time, remove the batteries.
- Do not be subjected to strong shock.
- Do not be subjected to moisture.
If moisture gets the unit, wipe it off immediately.
- Keep away from heat.
- The effect range of the Remote Controller is approximately 6m.
- The Remote Controller operation may not function if the projector's IR sensors are exposed to direct sun light or strong artificial light, or if there is an obstacle between the IR sensors and the Remote Controller.

WARNING

- The available types of batteries are limited: manganese dry cell, and alkaline.

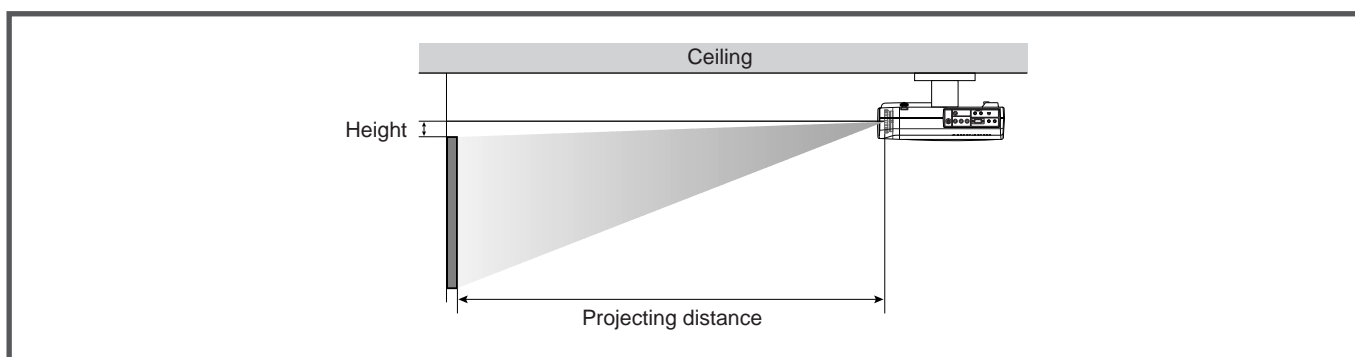
INSTALLATION

Floor Installation



Ceiling Installation

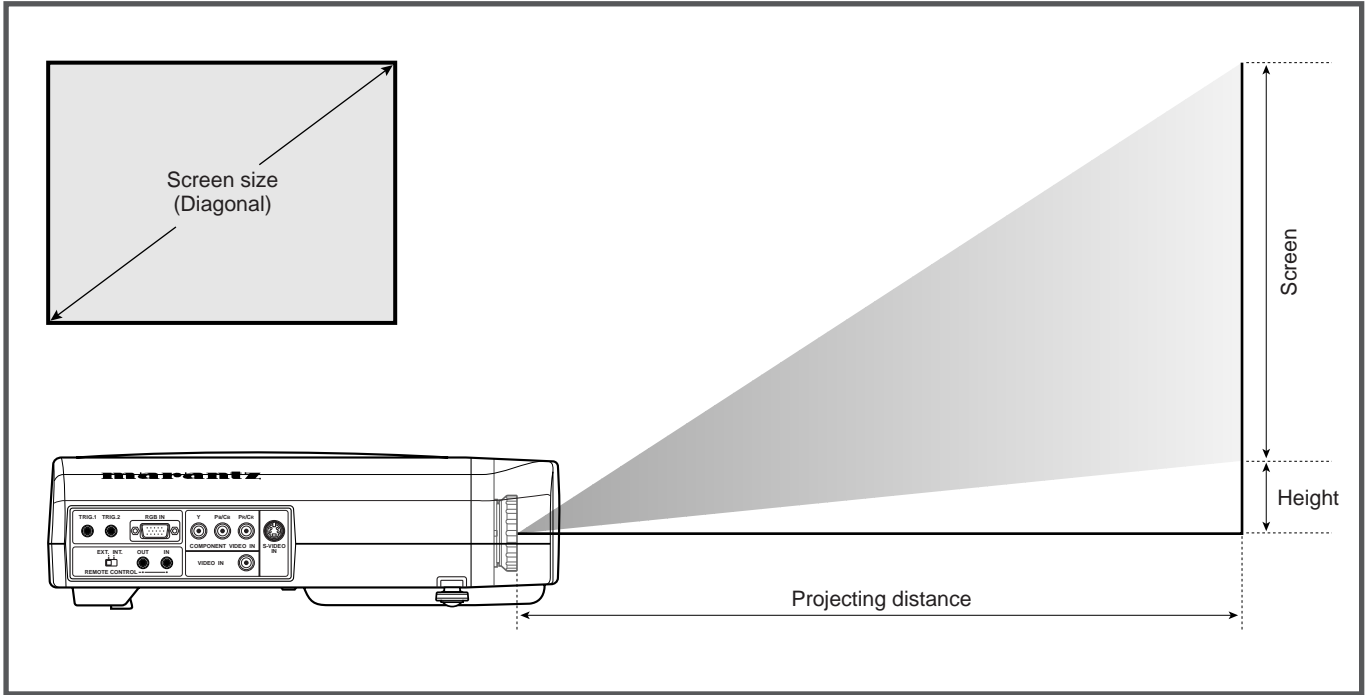
For ceiling installation, consult with Marantz dealer.



CAUTION

- Do not look into the lens when the projector is turned on. It could damage your eyesight.

Distance between the projector and the screen (throw distance)



Screen Size (inches)	16:9 screen			4:3 screen		
	Distance Unit :mm (inches)		Height Unit: mm (inches)	Distance Unit :mm (inches)		Height Unit: mm (inches)
	Minimum	Maximum		Minimum	Maximum	
40	1730 (68 ¹ / ₈)	2080 (81 ⁷ / ₈)	212 (8 ³ / ₈)	1600 (63)	1900 (74 ³ / ₄)	119 (4 ⁵ / ₈)
60	2620 (103 ³ / ₈)	3150 (124)	318 (12 ¹ / ₂)	2400 (94 ¹ / ₂)	2900 (114 ¹ / ₈)	178 (7)
80	3510 (138 ¹ / ₄)	4220 (166 ¹ / ₈)	425 (17 ¹ / ₄)	3200 (126)	3900 (153 ¹ / ₂)	237 (9 ³ / ₈)
100	4400 (173 ¹ / ₄)	5300 (208 ⁵ / ₈)	531 (20 ⁷ / ₈)	4000 (157 ¹ / ₂)	4900 (192 ⁷ / ₈)	297 (11 ³ / ₄)
120	5290 (208 ¹ / ₄)	6360 (250 ³ / ₈)	639 (25 ¹ / ₈)	4900 (193 ³ / ₈)	5800 (228 ³ / ₈)	356 (14)
150	6620 (260 ⁵ / ₈)	7960 (313 ³ / ₈)	796 (31 ³ / ₈)	6000 (236 ¹ / ₄)	7300 (287 ³ / ₈)	445 (17 ¹ / ₂)
200	8850 (348 ³ / ₈)	10630 (418 ¹ / ₂)	1061 (41 ³ / ₄)	8100 (318 ⁷ / ₈)	9800 (385 ⁷ / ₈)	593 (23 ³ / ₈)
240	10630 (418 ¹ / ₂)	12760 (502 ³ / ₈)	1274 (50 ¹ / ₈)	9800 (385 ⁷ / ₈)	11700 (460 ⁵ / ₈)	712 (28)
275 (300 for 4:3 screen)	12180 (479 ¹ / ₂)	-	1459 (57 ¹ / ₂)	12300 (484 ¹ / ₄)	-	890 (35)

Note: Tolerance ±5%

The Screen Images in a Widescreen (16:9)

- Press the 4:3 key or the ZOOM key on the remote controller for the 4:3 aspect ratio video source.
- Press the FULL key on the remote controller for 16:9 aspect ratio video source.

■ ZOOM mode



4:3 video source

■ 4:3 mode



4:3 video source

■ SQUEEZE mode



4:3 video source

■ FULL mode



16:9 video source

The Screen Images in a 4:3 Screen

- Press the FULL key on the remote controller for both 4:3 and 16:9 aspect ratio video sources.
- Video sources will be projected according to its aspect ratio as illustrated below.

■ FULL mode



4:3 video source

■ FULL mode



16:9 video source

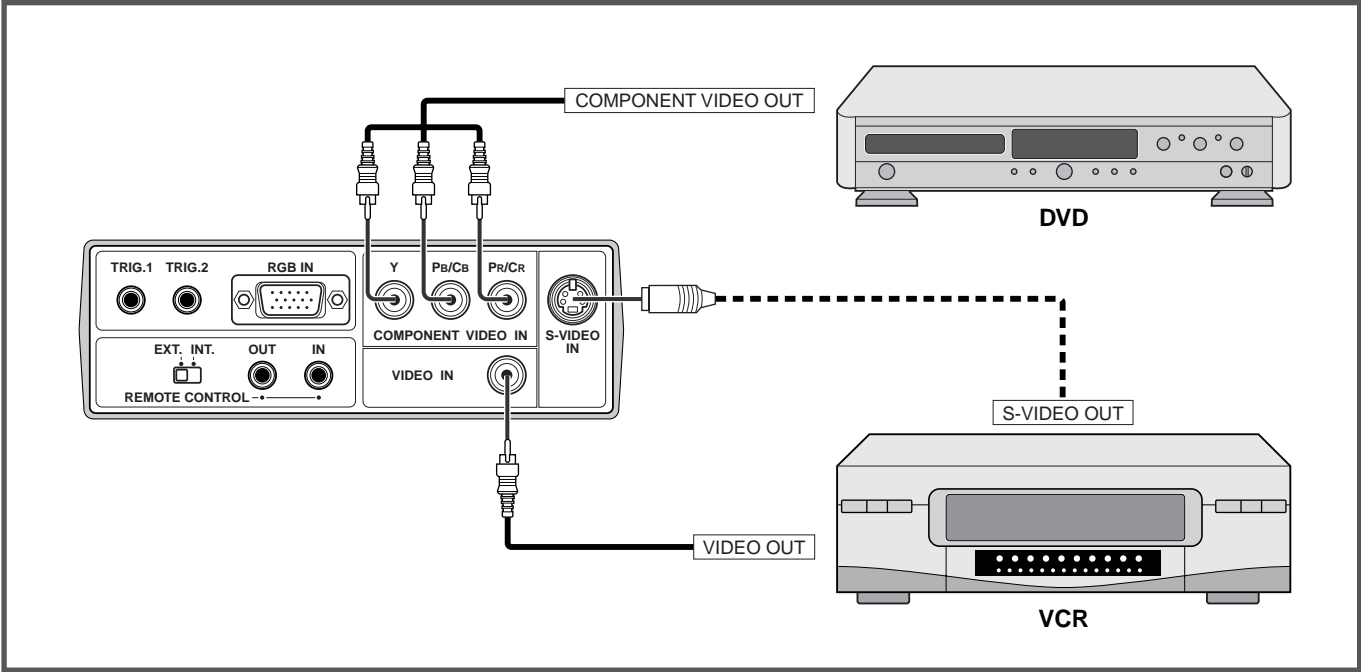
SQUEEZE mode

* If the user uses squeezed signal, this mode will "unsqueeze" the image to give a proper screen image.

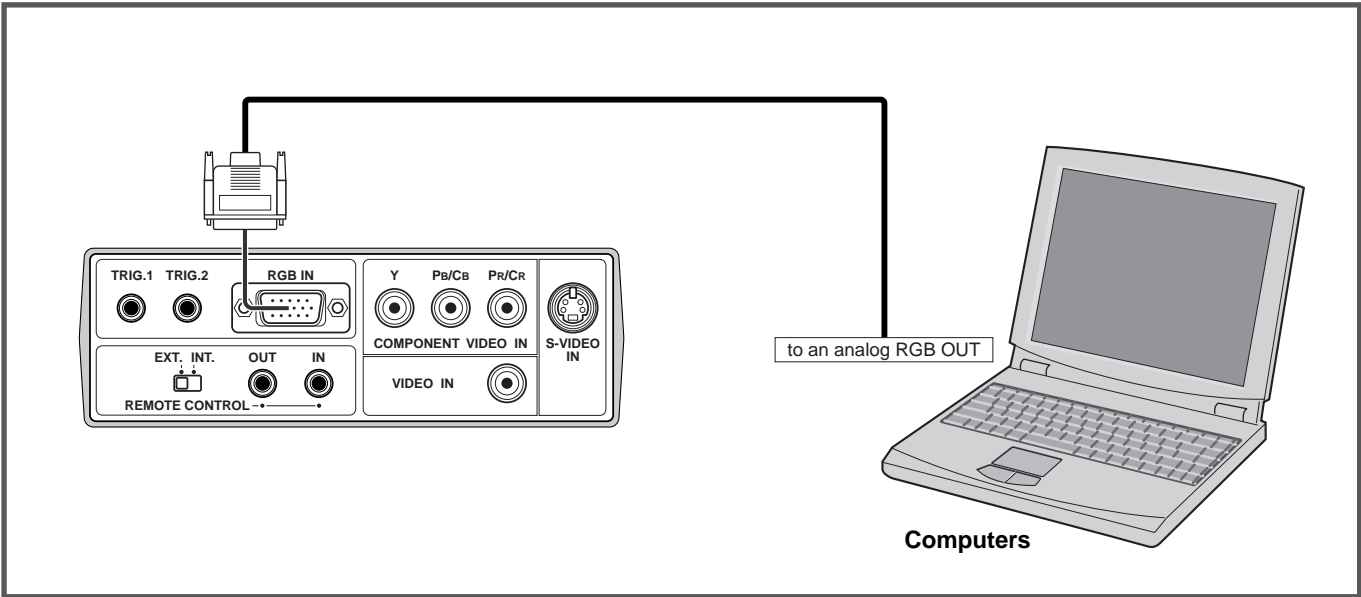
INSTALLING

Standard Connections

Connections with VIDEO EQUIPMENT



Connection with a PC



When making connections be sure to:

- Turn off all equipment before making any connections.
- Use the proper cables for each connection.
- Insert the plug for the cables properly, since any plugs that are not fully inserted often generated a noise.

When pulling out a cable:

- Be sure to grab the plug, not the cable itself.

INITIAL SET UP

- 1.** Connect the supplied AC power cord. The STANDBY indicator will light in green and the projector goes into the standby mode.
- 2.** Press the POWER ON key on the remote controller or the POWER key on the projector. The POWER key lights in green.
- 3.** Switch on the equipment connected to the projector. Press the INPUT SELECT key on the projector or the COMPONENT key, S-VIDEO key, VIDEO key, or RGB key on the remote controller.
- 4.** Press the OSD key twice on the remote controller to display the FOCUS PATTERN and turn the Focus ring to make an adjustment. Adjust the focus for the sharpest image possible to obtain, using the built-in focus pattern. Press the OSD key again to clear the pattern.
- 5.** Turn the Zoom ring to adjust the size of the image. The image should fill the screen vertically with normal 4:3 aspect ratio material. If the user uses a 16:9 screen, the image will fill the screen horizontally. The use of 4:3 video source will leave black stripes on the left and right sides in the 16:9 screen. This is normal.

TO TURN OFF THE POWER

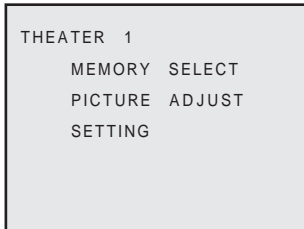
- 1.** Press the STANDBY key on the remote controller or the POWER key on the projector.
- 2.** The fan continues to run for a while to reduce internal heat. The POWER key flashes green and no key will be effective. After sufficient cooling has been provided, the STANDBY indicator lights in green.

OPERATIONS

Menu

Refer to the on-screen menu for making various adjustments and settings.

1. Press the MENU key.
The menu display appears.



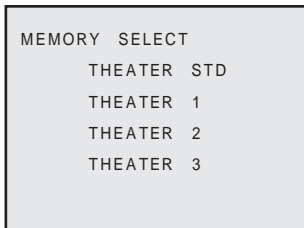
2. Use the ▲/▼ keys to select a menu, then press the ENTER key.
The selected menu appears.
3. Make adjustments in MEMORY SELECT, PICTURE ADJUST, or SETTING.

To display the previous menu Press the MENU key.

Memory Select

The user can recall the stored memory for his/her preference. This unit has three picture modes: THEATER, NORMAL, and DYNAMIC. Each picture mode has three picture memories.

1. Use the ◀/▶ keys to select a picture memory.
2. Use the ▲/▼ keys to select a picture mode.



Picture Adjust

The user can adjust the picture to suit own preference by using the PICTURE ADJUST feature.

1. Use the ◀/▶ keys to select an item.
2. Use the ▲/▼ keys to change the adjustment level.

To increase the number, press the ▲ key.
To decrease the number, press the ▼ key.

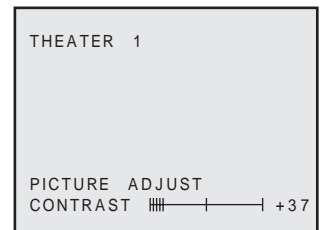
■ **For a video signal input, the following adjustments can be made:**

ITEM	0	←	→	99
CONTRAST	Weak			Strong
BRIGHTNESS	Dark			Bright
COLOR	Light			Deep
SHARPNESS	Soft			Sharp
TINT	R50		G49	
	Purple			Green
COLOR TEMP.(Color temperature)	L	M	H	
	Red			Blue
NOISE REDUCTION	0		7	
	Weak			Strong
WHITE ENHANCER	ON/OFF			

Note:

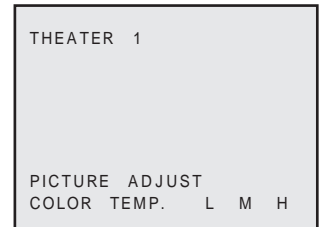
The user cannot adjust the THEATER STD, NORMAL STD, and DYNAMIC STD settings.

- CONTRAST



- COLOR TEMP.

- H: Make white more blue. This setting is approximately 12000 degrees in Kelvin.
- M: Make white less blue. This setting is approximately 9300 degrees in Kelvin.
- L: Make white more reddish. This setting is approximately 6500 degrees in Kelvin.



Setting

1. Use the ▲/▼ keys to select an item.
2. Use the ◀/▶ keys to change the setting

```

SETTING
ASPECT      SQUEEZE
TRIG.2      ON      OFF
LANGUAGE    ENGLISH
CEILING     YES     NO
REAR        YES     NO
COMPONENT   AUTO
2-3 P/D     AUTO    OFF
RESET LAMP  YES     NO
RESET ALL   YES     NO
  
```

3. Press the ENTER key to restore.

■ For video input signals, the following settings can be made:

- ASPECT
- TRIG.2 OUT
- LANGUAGE
- CEILING
- REAR
- COMPONENT (AUTO, NTSC, 480p, 720p, 1080i)
- 2-3 P/D (AUTO, OFF)
- RESET LAMP
- RESET ALL

- TRIG.2 OUT

Select 12 V DC from on and off at each aspect discretely.

ASPECT	ON	OFF
FULL	12 V DC	0 V
SQUEEZE	12 V DC	0 V
4:3	12 V DC	0 V
ZOOM	12 V DC	0 V

- LANGUAGE

Select the language used in the on-screen menu.
The available languages are English, French, and Spanish.

- 2-3 P/D

Select either auto or off from the 2-3 P/D system.

- COMPONENT

When set to AUTO, a video system is automatically selected as either NTSC, 480p, 720p, or 1080i. When AUTO does not work out, select an appropriate system from either NTSC, 480p, 720p, or 1080i.

- ALL RESET

When the user selects "YES", the following message appears:

```

SETTING
RESET ALL ?
YES NO
  
```

Again, select "YES", and press the ENTER key. Then restore the factory default settings except for the lamp life and RGB ADJUST MEMORY.

- RESET LAMP

When the user selects "YES", the following message appears:

```

SETTING
RESET LAMP ?
YES NO
  
```

Again, select "YES", and press the ENTER key. Then the lamp life is initialized.

Lamp Life and Replace Lamp

LAMP LIFE

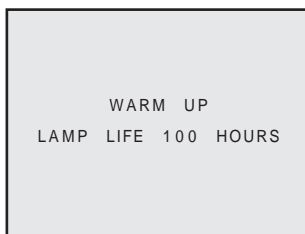
The user can display the remaining lamp life at any time by pressing the OSD key on the remote controller. LAMP LIFE is displayed at the very bottom of the menu.

VIDEO INPUT	:COMPONENT
VIDEO SETTING	:NORMAL STD
2-3 P/D	:AUTO
NOISE REDUCTION	:OFF
WHITE ENHANCER	:OFF
ASPECT	:SQUEEZE
TRIG.2 OUT	:ON
COMPONENT	:AUTO
P-SHIFT	:H= + 100
	:V= - 50
LAMP LIFE	:1125HOURS

Notes:

- When the LAMP LIFE becomes less than 1000 HOURS, it is recommended to replace the lamp unit. A lamp may be worn out when the LAMP LIFE becomes less than 1000 HOURS.
- The projector is designed not to turn on after the lamp use has exceeded 2000 hours. (LAMP LIFE 0 HOUR)
If the projector is in use, it will turn off.

- ▶ When the lamp life expires in about 100 hours and the unit is on, the remaining lamp life is displayed on the screen.



- ▶ When the lamp life expires in about 5 hours, the remaining lamp life is displayed on the screen at one-hour interval.



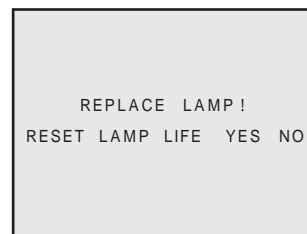
To clear the menu above, press the MENU key.

- ▶ When the lamp life has expired (LAMP LIFE 0 HOURS), the unit will be immediately turned off, and the WARNING indicator will blink in orange.



Use the following procedure to reset (initialize) the lamp life indicator after replacing the lamp with a new one.

1. Unplug the power cord.
2. Wait about one minute and reconnect the power cord.
3. Press the POWER key. Only the POWER key will be of effect. The following message appears for 120 seconds.



4. Select "YES", using the ◀/▶ keys.
5. Press the ENTER key. The lamp life indicator is now initialized.

MAINTENANCE

Replacing the Lamp Unit

CAUTION:

- Do not touch the lamp and the lamp unit. It will be extremely hot. Allow at least one hour for the lamp to cool down before handling.
- Do not loosen any screws except for those mentioned below.
- The lamp may break if handled improperly.
- Do not use a lamp housing other than a Marantz replacement lamp unit.

WARNING:

- The lamp itself may get hot. Be careful when handling.
1. Press the POWER key to turn the projector off.
 2. Unplug the AC power cord.
 3. Wait at least one hour for the lamp and lamp unit to cool down.
 4. Turn the projector upside down carefully.
(Read the caution and warning labels on the lamp cover.)
 5. Loosen the lamp cover securing screw.
 6. Remove the lamp cover.
 7. Loosen the three lamp housing screws.
(This projector has a safety switch.)
 8. Hold the handle then pull the lamp unit upward to remove it.
 9. Install the new lamp unit.
 10. Secure the lamp unit with the three screws.
 11. Replace the lamp cover and secure it with a screw driver.

Cleaning the lens

If the lens becomes dirty or smudged, clean it with a soft dry cloth. Do not use a dampcloth, detergent solution, or thinner. It may remain as stains. Use optical lens cleaners only which are approved for eyeglasses or cameras.

Replacement parts

When replacement parts are required, be sure to inform only a Marantz authorized service center. Only the use of replacement parts specified by Marantz, whose features are equivalent to the original parts, is allowed. Unauthorized substitutions may result in fire, electric shock, or other hazards. Otherwise the warranty may not be guaranteed.

Optional accessories

■ Lamp Unit: LU8000VP

■ Ceiling Mount KIT: RM8000VP

CAUTION:

- For ceiling installation, consult with the Marantz dealer.

TROUBLESHOOTING

In case of troubles, check the following before calling for service:

1. Are the connections made properly ?
2. Are you operating the unit properly, following the instructions ?

If the unit does not operate properly, check the items shown in the following table.

If any trouble cannot be solved by the recommendation below, malfunction of the internal circuitry is suspected; immediately unplug the AC power cord and contact the Marantz dealer or service center.

Symptom	Cause	Recommendation
Image is not displayed.	AC power cord is not connected correctly.	Connect the AC power cord correctly.
	Lamp cover is not closed correctly.	Close the cover correctly.
	A signal cable is not connected correctly.	Connect a signal cable correctly.
	Selected input is incorrect.	Select the correct input source .
	The picture mute is active.	Press the-MUTE key to release the mute.
Poor color.	Picture is not adjusted correctly.	Adjust the picture in the MENU mode.
Picture is too dark.	Lamp is nearing the end of its life.	Replace the lamp and reset lamp life.
	Contrast or brightness is not adjusted properly.	Adjust contrast or brightness properly.
Picture is not clear.	Picture is out of focus.	Adjust the focus.
	Condensation occurs on the lens.	Run the projector for about two hours.
Picture rolls.	A signal cable is not correctly connected.	Connect a signal cable correctly.
The WARNING indicator lights in orange.	The internal temperature is unusually high.	Check to see that nothing is blocking the ventilation holes and leave off the unit for about an hour.
The WARNIG indicator blinks orange.	Lamp cover is not closed correctly.	Close the cover correctly.
	Worn out lamp.	Replace the lamp and reset lamp life.
	Lamp circuit failure. Problems inside the projector.	Take the projector to the Marantz dealer.
The Remote Controller does not work.	Batteries are exhausted.	Replace batteries.
	The distance to the unit is too far.	Reduce the distance between the unit and the remote control.
	IR sensor on unit is obstructed.	Remove any obstacles.
	The "EXTERNAL" position on the REMOTE CONTROLLER on the connector panel is selected.	Use MARANTZ REMOTE CONTROL or select INTERNAL.

Notes:

- When the projector is installed on the ceiling and the WARNING indicator lights up or flashes, never open the lamp cover.
- Install a standard lamp.
- If the lamp still does not function after the replacement and initialization of the lamp life indicator, contact the dealer, or service center.

ON SCREEN MESSAGE

Use the list below to check the message displayed on the screen.

Message	Meaning	Recommendation
NO SIGNAL	No input signal.	Check the connection.
INVALID KEY	You have pressed the wrong key.	Press the appropriate key.
REPLACE LAMP!	The lamp has reached the end of its life.	Replace the lamp and reset lamp life.
OUT OF RANGE	This input signal cannot be projected as the frequency is out of the acceptable range of the projector.	Input a signal within the range of the frequency.

SPECIFICATIONS

Optical characteristics

Panel	0.67inch Digital Micromirror Device 786,432 pixels (1,024 × 768 × 1)
Lamp	120W P-VIP Lamp
Lens	f: 28 to 33/ F: 3.0 to 3.3 1.2 times zoom lens
Projection size	4:3 screen 23 to 275 inches (diagonal measure)
Light output	700 ANSI lumen

INPUT/OUTPUT

VIDEO IN	RCA × 1 NTSC-3.58 Composite video 1.0V _{p-p} /75 Ohm
S-VIDEO IN	S-Connector × 1 PAL-4.43 / SECAM / NTSC-3.58 S-VIDEO
COMPONENT VIDEO IN	RCA × 3 Y, C _B /P _B , C _R /P _R
RGB IN	D-sub M 15 pin × 1 ANALOG RGB
REMOTE CONTROL IN	Mini jack type × 1
AC IN	3 Prong Grounding Type
TRIG.1 OUT, TRIG.2 OUT	Mini Jack × 2 POWER On: DC12V Output impedance 47 k ohm
REMOTE CONTROL OUT	Mini jack type × 1

GENERAL

Power requirement	AC 100-120 V / 220-240 V, 50 / 60 Hz
Power consumption	<200 W
Stand by consumption	<6 W
Chassis isolation	Class- I
Safety	UL1950 CAN/CSA C22.1 No.1&950
EMI/EMC	FCC Part-15 Class-A
Dimensions	235(W) × 322(D) × 96(H)mm
Net weight	3 kg
Operating Temperature	5 to 35 °C
Operating humidity	30 to 85%
Storage Temperature	-20 to 60 °C
Storage humidity	30 to 85%
Accessories	Lens cap × 1 Remote controller × 1 Batteries × 2 AC power code × 1 Owner's manual × 1 Adapter cable (Mini jack to RCA) × 1

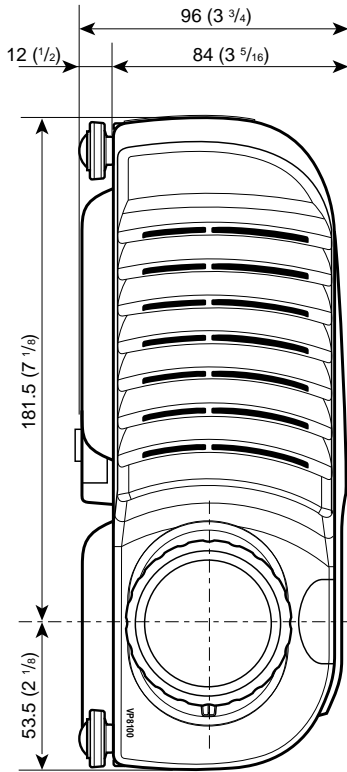
Timing chart

System	Resolution	V(Hz)	H(kHz)	Scan
NTSC	768 × 240	59.940	15.734	I
HDTV (1080i)	1,920 × 517.5	60.000	33.750	I
HDTV (720p)	1,280 × 720	60.000	45.000	I
HDTV (480p)	720 × 480	59.940	45.000	I
VESA#900601	800 × 600	56.250	35.156	N
VESA#900602	800 × 600	60.317	37.879	N
VESA#900603A	800 × 600	72.188	48.077	N
VESA TIMING	800 × 600	75.000	46.875	N
VESA#901101A	1,024 × 768	60.004	48.363	N
VESA#910801-2	1,024 × 768	70.069	54.476	N
VESA TIMING	1,024 × 768	75.029	60.023	N
VESA INDUSTRIAL	1,024 × 768	59.940	31.469	N

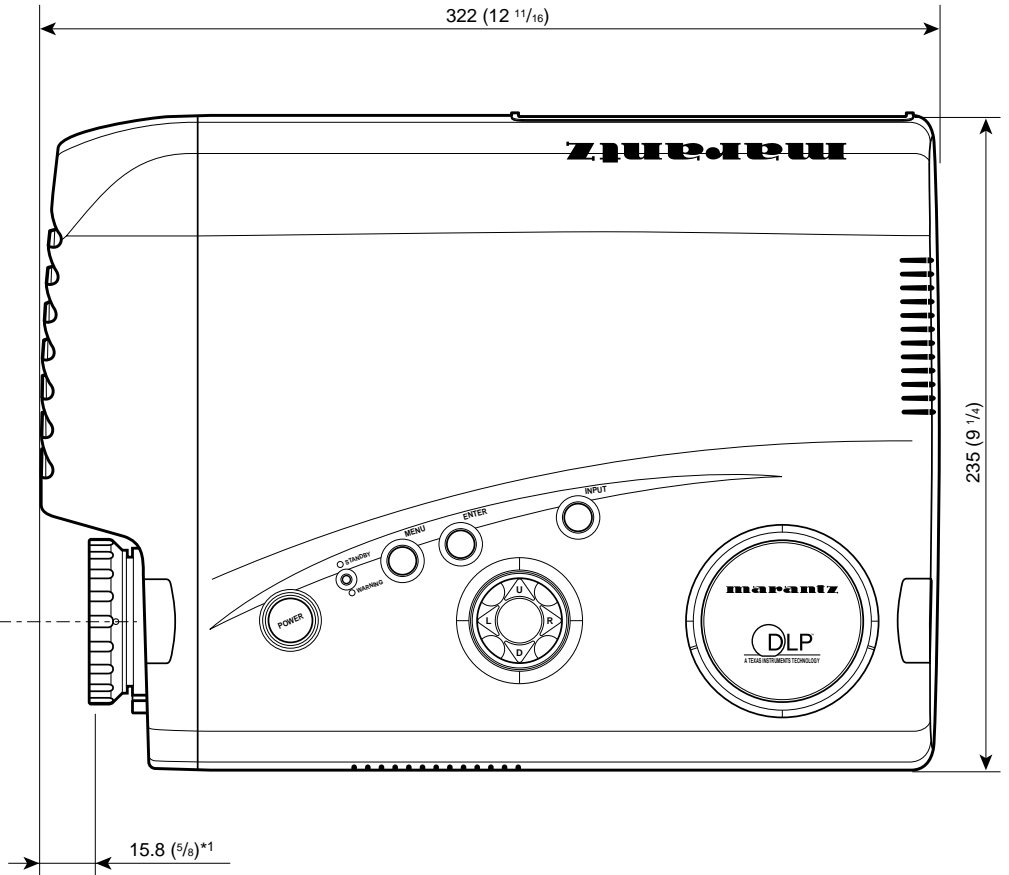
Specifications may be subjected to change without any prior notice.

DIMENSIONS

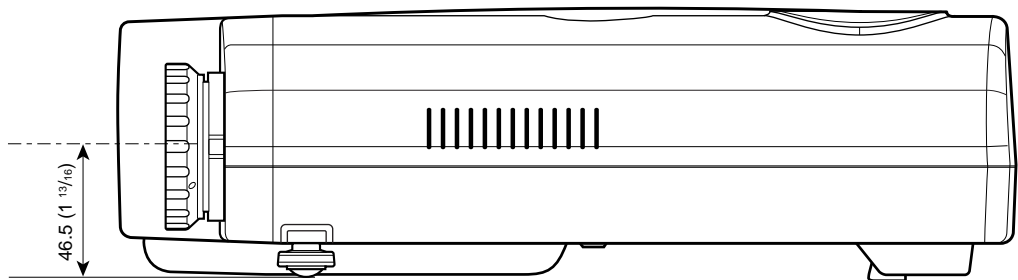
FRONT



TOP



SIDE



Unit: mm (inches)

*1 It depends on the focus adjustment position and the zoom adjustment position.

COUNTRY	COMPANY	ADDRESS
ALGERIE	Azur 2000	8, Lotissement Ben Hatadi, Alger, Algerie
ARMENIA	NGYIG Ltd.	47 A/75 St. Lalaianst, 375000 Yerevan, Armenia
AUSTRALIA	Scan audio Pty. Ltd.	4 Station Street, Thornleigh NSW 2120, Australia
AUSTRIA	Huber & Prohaska GmbH	Taborstraße 95 / Ladestraße 1, Gebäude Hangartner, A-1200 Wien, Austria
BAHREIN	Ambassador Stores	P.O. Box 237,141, Government Avenue, Manama,Bahrein
BANGLADESH	Target	1078, Ramjoy Mohanja Lane Asadgonj, Chittagong 4000, Bangladesh
BELGIUM	Van der Heyden Audio N.V.	Brusselbaan 278, 9320 Erembodegem, Belgium
BULGARIA	Ariescommerce GmbH	Makedonia Blvd. 16, 1606 Sofia, Bulgaria
CANADA	Lenbrook Industries Limited	633 Granite Court, Pickering, Ontario
CYPRUS	Empire Hifi systems Ltd.	P.O. Box 5604, Nicosia, Cyprus
CZECH REPUBLIC	Audio International	Sokolska 41, 67902 Rajecsko, OKR,Blansko, Czech Republic
DENMARK	Audio Nord	Dali Allé 1, 9610 Noerager, Denmark
DUBAI	V.V. & SONS	P.O. Box 105, Dubai, U.A.E.
EGYPT	Solimco	9, El Attibaa St. Doki, Cairo, Egypt
ESTONIA	HiFi Club Estonia	Ehte 4, 90503 Haapsalu, Estonia
F.Y.R.O.M.	T.P. KODI	ul.Cedomir Kantargiev 21a, Skopje, Former Yugoslavian Republic of Macedonia
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FRANCE	Marantz France	A division of Marantz Europe B.V., P.O. Box 301, 92 156 Suresnes Cedex, France
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HUNGARY	Infovox Ltd.	Terez Krt.31, 1067 Budapest, Hungary
ICELAND	ID Electronics Ltd.	Armula 38, 108 Reykjavik, Iceland
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ISRAEL	Elmor Ltd.	52 Heh Beiyar Street, Kikar Hamedina, Tel Aviv, Israel
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KUWAIT	alAlamiah Electronics Intl.	P.O. Box 8196, Salmiah 22052, Kuwait
LATVIA	Ace Ltd.	61, LacPlesa Str., Riga LV 1011, Latvia
LEBANON	AZ Electronics S.A., 1,	P.O. Box 11 2833, Beirut, Lebanon
LITHUANIA	Accapella Ltd.	Ausros, Vartu G/5, Pasazo SKG., 2001 Vilnius, Lithuania
MALAYSIA	Wo Kee Hong Electronics Sdn. Bhd.	102 Jalan SS 21/35, Damansara Utama, 47400 Petaling Jaya, Selangordarul Ehsan, Malaysia
MALTA	Doneo Co Ltd.	78 The Strand, Sliema SLM07, Malta
MAURITIUS	SKR Electronics Ltd.	P.O. Box 685, Bell Village, Port Louis, Mauritius
MILITARY MARKET EUROPE	PASCO GmbH	PO BOX 1280, Sandhausen 69200, Germany
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NORWAY	Audio Nord	Sandkerveien 64, Oslo 0483, Norway
OMAN	Mustafa & Jawad Trading CO.	P.O. Box 1918, Ruwi, Oman
POLAND	Philips Polska Sp. z.o.o.	Al.Jerozolimskie 195b, 02 222 Warszawa, Poland
PORTUGAL	Corel2	Comércio de Electrónica Lda., Av. Luís Bivar, No 85 A, 1050 Lisboa, Portugal
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SINGAPORE	Forward Marketing (S) Pte. Ltd.	Wo Kee Hong Centre, 29 Leng Kee Road, Singapore 159099, Singapore
SLOVAKIA	Bis Audio s.r.o.	Nam. SNP 10, 96001 Zvolem, Slovakia
SLOVENIA	Bofex	Smartinska 152, HALA V/3, 61000 Ljubljana, Slovenia
SOUTH AFRICA	Coherent Imports (PTY) Ltd.	P.O. Box 1614, Alberton, 1450, South Africa
SPAIN	Marantz Spain	Martinez Villergas 2, Apartado 2065, Madrid 28027, Spain
SRI LANKA	The listening Room	Mezzanine Floor, The Landmark 385, Galle Road, Colombo - 3, Sri Lanka
SWEDEN	Audio Nord	Almedalsvagen 4, Gotenborg 402-23, Sweden
SWITZERLAND	Sound Company AG	Postfach, 8010 Zürich, Switzerland
SYRIA	Hamzeh & Partners	Hafez Ibrahim Str. No 117, Damascus Shalan, Syria
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EXPORT	Marantz Domestic Sales	A division of Marantz Europe BV, Building SFF2, P.O. Box 80002, 5600 JB Eindhoven, TheThe Netherlands

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