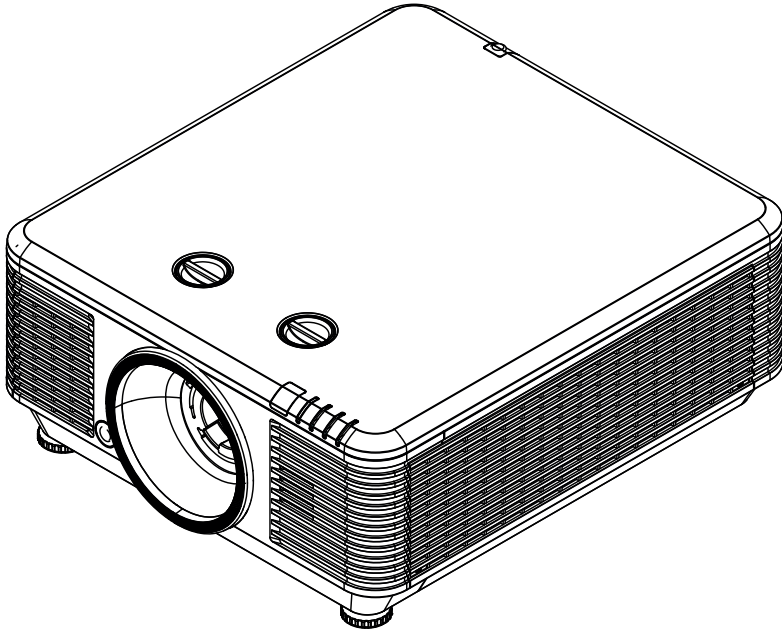**DIGITAL PROJECTION**

E-Vision Laser 6500 Series

Super High Brightness Digital Video Projector

3   Important Information

Digital Projection

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Super High Brightness Digital Video Projector
Important Information
Contents

Full information about operating, connecting and setting up the projector can be found in the User Manual, located on the CD.

Symbols used in the User Manual

LASER WARNING: this symbol indicates that there is a potential hazard of eye exposure to laser radiation unless the instructions are closely followed.

ELECTRICAL WARNING: this symbol indicates that there is a danger of electrical shock unless the instructions are closely followed.

WARNING: this symbol indicates that there is a danger of physical injury to yourself and/or damage to the equipment unless the instructions are closely followed.

NOTE: this symbol indicates that there is some important information that you should read.

Specifications are subject to change without notice.

Electrical and physical specifications

Main Voltage	100-240 VAC 50/60Hz single phase
Operating Temperature	0°C to 40°C (32 to 104F)
Storage Temperature	-20°C to 60°C (-4 to 140F)
Operating Humidity	10% to 85% non-condensing
Weight	25 kg (55.1 lb) without lens
Power Consumption	650 W
Thermal Dissipation	2219 BTU/hr

Laser precautions

CLASS 3R LASER PRODUCT

This Laser Product is designated as Class 3R during all procedures of operation.

LASER LIGHT - AVOID DIRECT EYE EXPOSURE.

Do not point laser or allow laser light to be directed or reflected toward other people or reflective objects.

Direct or scattered light can be hazardous to eyes and skin.
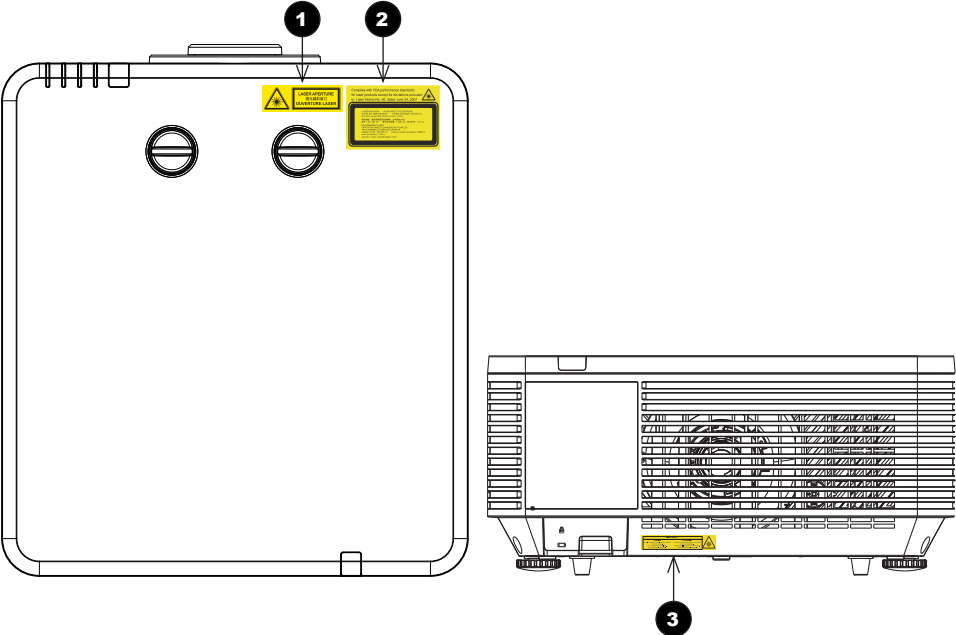
There is a potential hazard of eye exposure to laser radiation if the included instructions are not followed.

Caution – use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

Laser Parameters:

Wavelength	450nm - 460nm (Blue)
Mode of operation	Pulsed, due to frame rate
Pulse width	1.34ms
Pulse repetition rate	120Hz
Maximum laser energy	0.698mJ
Total internal power	>100W
Apparent source size	>10mm, at lens stop
Divergence	>100 mili Radian

Product labels

LASER APERTURE
激光辐射窗口
OUVERTURE LASER

1 **Hazard Warning Symbol and Aperture Label**

Complies with FDA performance standards
for laser products except for deviations pursuant
to Laser Notice No. 50, dated June 24, 2007

LASER RADIATION   AVOID DIRECT EYE EXPOSURE
CLASS 3R LASER PRODUCT   Emitted wavelength : 450-460 nm
Max. Pulse energy: 0.698 mJ, Pulse duration: 1.34 ms

激光辐射   避免眼睛受到直接照射 3R类激光产品
波长：450~460 nm   最大脉冲能量：0.698 mJ，脉冲时间：1.34 ms

RAYONNEMENT LASER
EXPOSITION DIRECTE DANGEREUSE POUR LES
YEUX APPAREIL À LASER DE CLASSE 3R   l
ongueur d'onde : 450-460 nm   maximum énergie d'impulsion : 0.698 mJ,
durée de impulsion : 1.34 ms
GB 7247.1-2012 / IEC/EN 60825-1:2007

2 **Explanatory Label**

RISK GROUP 2
CAUTION   ATTENTION
Possibly hazardous optical radiation emitted   Ce produit peut émettre des rayonnements
from this product.   optiques dangereux.
Do not stare at operating lamp.   Ne pas fixer la lampe en fonctionnement.
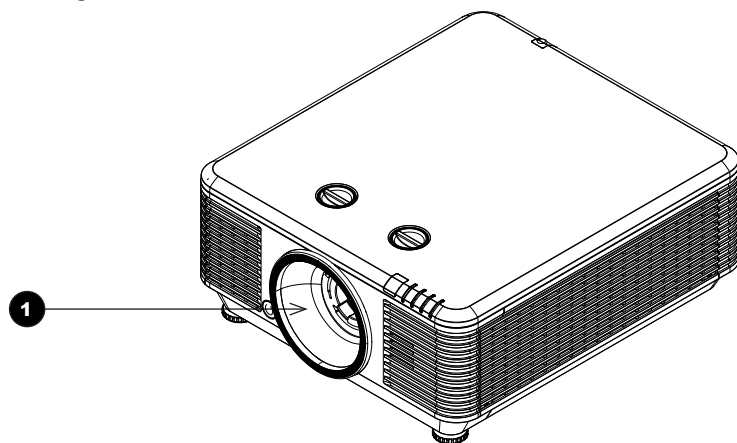May be harmful to the eyes.   Peut être nocif pour les yeux.

3 **Explanatory Label**
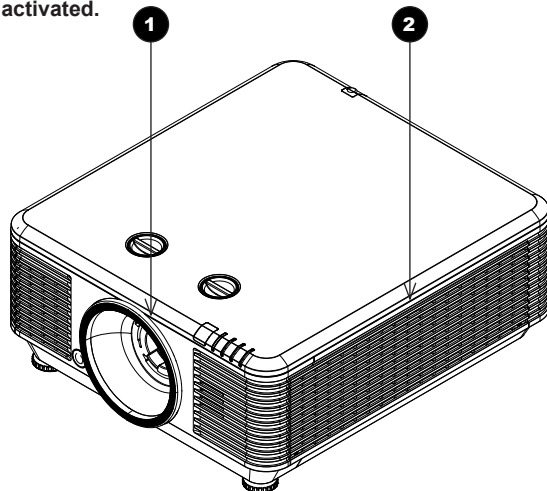
Location of laser aperture

The laser aperture is located as indicated below. Be careful not to expose the eye to direct laser light.

1   **Laser aperture**

Interlock switches

Three interlock switches installed at the main frame, inside the cover, will power-off the system individually when activated.

1   **Will be activated when the projection lens is removed or misplaced.**

2   **Will be activated when the top cover is removed.**

General precautions

The unit is never to be operated if the unit is defective or the cover or seal is damaged.

No maintenance allowed by end user.

Do not open the cabinet. There are no user serviceable parts inside.

No service is allowed except by authorized personnel.

Use only the power cable provided.

Ensure that the power outlet includes a Ground connection, as this equipment MUST be earthed.

Take care to prevent small objects such as paper or wire from falling into the projector. If this does happen, switch off immediately, and have the objects removed by authorised service personnel.

Do not expose the projector to rain or moisture, and do not place any liquids on top of the projector.

Unplug before cleaning, and use a damp, not wet, cloth.

Do not touch the power plug with wet hands.

Do not touch the power plug during a thunder storm.

Handle the power cable carefully and avoid sharp bends. Do not use a damaged power cable.

Do not touch the ventilation outlets, as they will become hot in use.

Do not cover or obstruct the ventilation outlets or inlets.

Do not cover the lens whilst the projector is switched on. This could cause a fire

Always allow the projector to cool for 5 minutes before disconnecting the power or moving the projector.

Never use strong detergents or solvents such as alcohol or thinners to clean the projector and lens.

Installation precautions

⚠️ **Connect the LAN cable only to a computer LAN connection. Other similar connectors may have a dangerously high voltage source.**
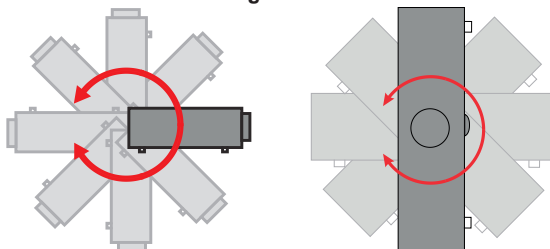
The projector must be installed only by suitably qualified personnel, in accordance with local building codes.

The projector should be installed as close to the power outlet as possible.

The power connection should be easily accessible, so that it can be disconnected in an emergency.
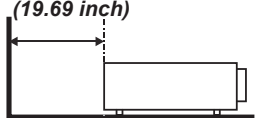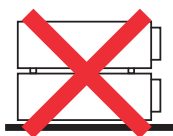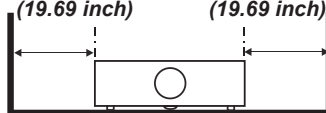
⚠️ **There is no limit on tilt angle.**

Allow at least 50cm (19.7in) of space between the ventilation outlets and any wall, and 30cm (11.8in) on all other sides.
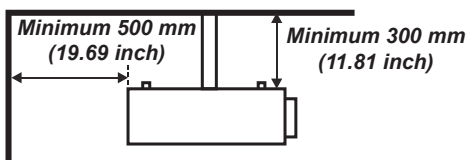

For portrait installation, a customized stand is required to be attached to the projector. See Reference drawings for customized stand - portrait mode in the user manual.

⚠️ **Do not install the projector close to anything that might be affected by its operational heat, for instance, polystyrene ceiling tiles, curtains etc.**

⚠ Place the projector in a dry area away from sources of dust, moisture, steam, smoke, sunlight or heat.

The projector is heavy. Use safe handling techniques when lifting the projector.

Do not drop or knock the projector.

Before installation, make sure that the surface, ceiling or rigging that is to support the projector is capable of supporting the combined weight of the projector and lens.

When stacking projectors, the stack MUST be vertical, to ensure that the stresses are distributed to all four chassis corners.

Do not stack more than 3 projectors.

Do not place heavy objects on top of the projector chassis. Only the chassis corners and the optional rigging frame are capable of withstanding the weight of another projector.

Backup safety chains or wires should always be used with ceiling mount installations.

Ensure that the intake vents do not recycle hot air from the exhaust vent.

When operating the projector in an enclosed space, ensure that the surrounding air temperature within the enclosure does not exceed operation temperature while the projector is running, and the air intake and exhaust vents are unobstructed.

All enclosures should pass a certified thermal evaluation to ensure that the projector does not recycle exhaust air, as this may cause the device to shutdown even if the enclosure temperature is with the acceptable operation temperature range.

Turn on Altitude Mode when located in high altitude areas.

The projector can only be installed upright or inverted.

When installing the bracket, make sure the weight limit is not exceed and the projector is firmly secured.

Avoid installing near an air conditioner duct or a subwoofer.

Avoid installing at high temperature, insufficient cooling and heavy dust locations.

Keep your product away from fluorescent lamps (>1 Meter) to avoid malfunction caused by IR interference.

The VGA IN connector should be connected to the VGA IN port. Note that it should be inserted tightly, with the screws on both sides securely fastened to ensure proper connection of the signal wire for achieving optimal display effect.

The AUDIO IN connector should be connected to the AUDIO IN port and CANNOT be connected to AUDIO OUT or other ports like BNC, RCA; otherwise, it will lead to mute output and even DAMAGE the port.

Install the projector above 200cm to avoid damage.

The power cord and signal cable should be connected before the projector is powered on. During startup and operation, DO NOT insert or remove the signal cable or the power cord to avoid damaging the projector.

The projector generates a massive amount of heat during use. The internal fan dissipates the heat of the projector when shutting down, which could continue for a certain period. After the project enters STANDBY MODE, press the AC power button to turn off the projector and remove the power cord. DO NOT remove the power cord during shutdown as it may cause damage to the projector and may affect the service life of the projector.

Operation and configuration precautions

⚠ **Do not make changes to the networking configuration unless you understand what you are doing, or have taken advice from your Network Manager. If you make a mistake, it is possible that you will lose contact with the projector. Always double-check your settings before pressing the APPLY button. Always keep a written note of the original settings, and any changes you have made.**

Software update should NOT be carried out except by, or with the supervision of, Digital Projection Service personnel.

Compliance with international standards

CE FC

RF Interference

FCC

The Federal Communications Commission does not allow any modifications or changes to the unit EXCEPT those specified by Digital Projection in this manual. Failure to comply with this government regulation could void your right to operate this equipment.

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant with 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 may cause harmful interference, in which case the user will be responsible for correcting any interference.

Noise

GSGV Acoustic Noise Information Ordinance

The sound pressure level is less than 41 dB (A) according to ISO 3744 or ISO 7779.

European Waste Electrical and Electronic Equipment (WEEE) Directive

Digital Projection Ltd is fully committed to minimising Waste Electrical and Electronic Equipment. Our products are designed with reuse, recycling and recovery of all components in mind. To this end, at end of life, your projector may be returned to Digital Projection Ltd or its agent so that the environmental impact can be minimised.

Basic Operation Instructions

Positioning the screen and projector

1.   Install the screen, ensuring that it is in the best position for viewing by your audience.

2.   Mount the projector, ensuring that it is at a suitable distance from the screen for the image to fill the screen. Set the adjustable feet so that the projector is level, and perpendicular to the screen.

The drawing below shows the positions of the feet for table mounting, and the fixing holes for ceiling mounting.
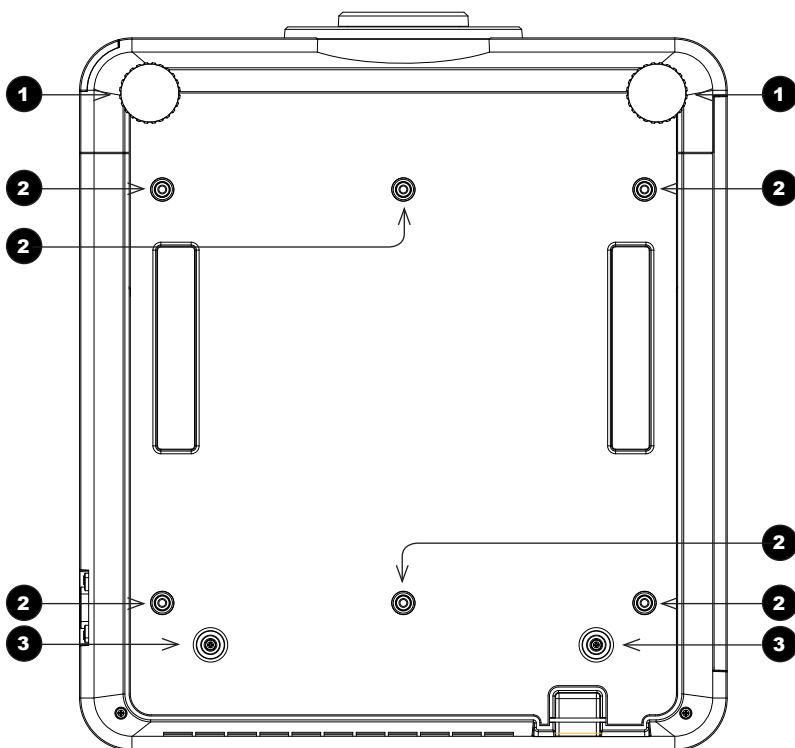
1   **Two adjustable feet (front)**

2   **Six M4 holes for ceiling mount**
             The screws should not penetrate more than 15 mm into the body of the projector.

3   **Two fixed length feet (rear)**
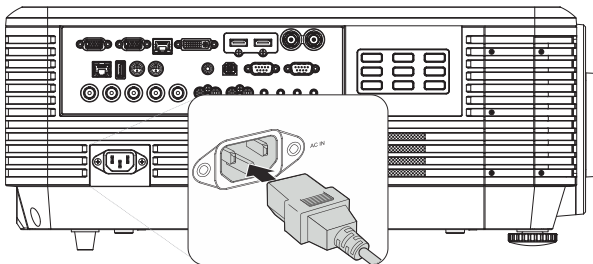
Connecting the power supply

Firmly push the mains connector
into the socket as shown in the
illustration.

⚠ **Use only the power
cable provided.**

**Ensure that the power
outlet includes a ground
connection as this equipment MUST be earthed.**

**Handle the power cable carefully and avoid sharp bends. Do not use a damaged power
cable.**

Switching the projector on

1. Connect the power cable between the mains supply and the projector. (See **Connecting the
    power supply** above.) Switch on at the switch next to the power connector.

2. The **POWER** indicator lights red to signal that the projector is in STANDBY mode. Press one of
    the following buttons:

    *   On the remote control, the **ON** button
    *   On the projector control panel, the **POWER** button ⏻.

    The **POWER** indicator begins flashing green. In approximately 30 seconds, the startup screen
    appears and the projector is fully switched on.

    The first time you use the projector, you can set OSD language from the quick menu. (See
    Setting the OSD language in the user manual.)

Switching the projector off

1. Press **OFF** on the remote control or **POWER** ⏻ on the control panel, then press again to confirm
    your choice.

2. If you need to switch the projector off completely, switch off at the mains power switch next to the
    power connector and then disconnect the power cable from the projector.

Selecting an input signal

If more than one input source is connected, select the input you want to display. Press the **Source** button on the control panel and use the **UP ▲** and **DOWN ▼** arrow buttons to scroll through the list of inputs:

- HDMI 1
- HDMI 2/ MHL
- DVI
- VGA 1: analog RGB
  DVD input YCbCr / YPbPr, or HDTV input YPbPr via D-sub connector
- BNC: analog RGB
- Composite Video
- HDBaseT

Selecting a test pattern

1. Press the **MENU** button to open the OSD.

2. Press the **LEFT ◄** and **RIGHT ►** arrow buttons to navigate to the **Settings 1** menu.

3. Press the **UP ▲** and **DOWN ▼** arrow buttons to move to the **Advanced 2** submenu and then press ↵ (**ENTER**) to open the submenu. Once inside, press **UP ▲** and **DOWN ▼** to highlight **Test Pattern**.

4. Use the **LEFT ◄** and **RIGHT ►** arrow buttons to cycle through the available test patterns.

Adjusting the image

Orientation
- This can be set from the **Setttings 1** menu.

  Highlight **Projection** and choose from **Normal**, **Rear**, **Ceiling** and **Rear+Ceiling**.

Keystone
To adjust keystone, press the **Keystone** button on the remote control to open the **Keystone** menu, and then use the arrow buttons for vertical or horizontal keystone corrections.
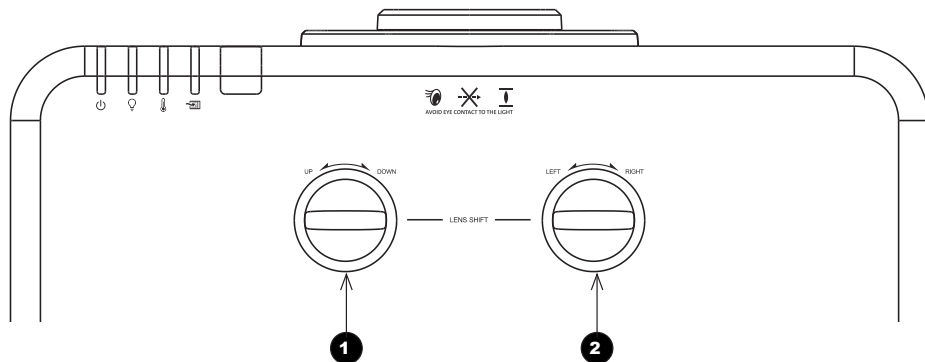
Picture
- Settings such as **Gamma**, **Brightness**, **Contrast** and **Sharpness** can be set from the **Image** menu.

Adjusting the lens

Lens shift

The lens shift function can be used to adjust the position of the projected image either horizontally or vertically.

Use the vertical and horizontal lens shift knobs to move the image across the width or height of the screen.
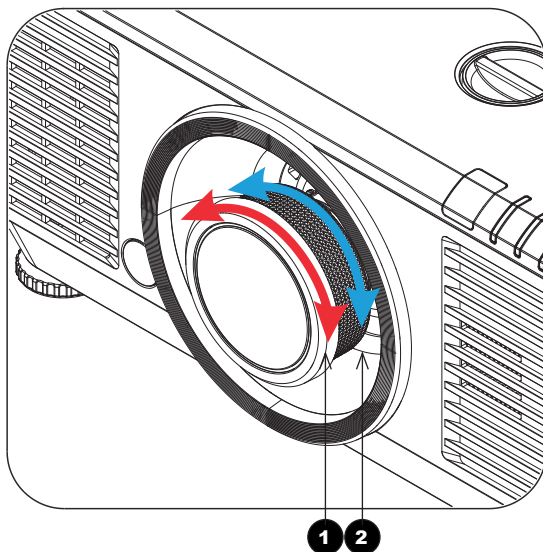

1   **Vertical lens shift knob**

2   **Horizontal lens shift knob**

Focus and zoom

Use the **focus** **1** and **zoom** **2** rings on the projector lens to adjust focus and zoom.

Inserting a new lens

⚡ **Before changing the lens, always make sure the projector is switched off and fully disconnected from its power supply.**

⚠ **When changing the lens, avoid using excessive force as this may damage the equipment.**
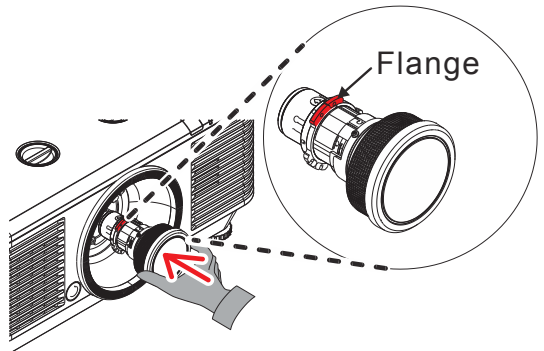
☞ *The lens is shipped separately.*

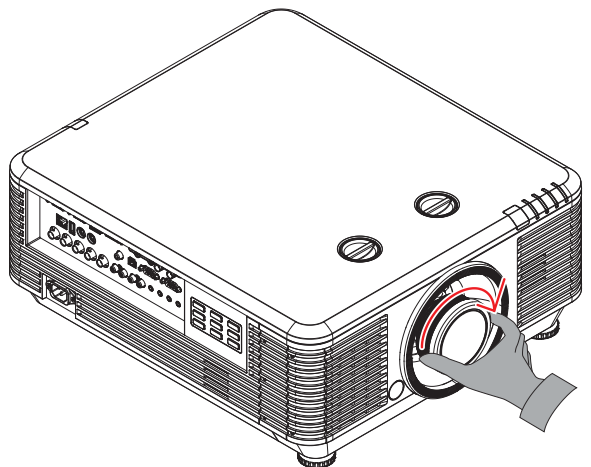☞ *Take care to preserve the original lens packaging and protective caps for future use.*

☞ *The projector will not power on without the lens fitted.*

1. Align the flange and position it correctly at an 11 o'clock angle as shown in the illustration, then firmly push the lens into the socket

2. Turn the lens clockwise until it clicks into place.

Removing the lens

⚠ **Before changing the lens, always make sure the projector is switched off and fully disconnected from its power supply.**

⚠ **When changing the lens, avoid using excessive force as this may damage the equipment.**
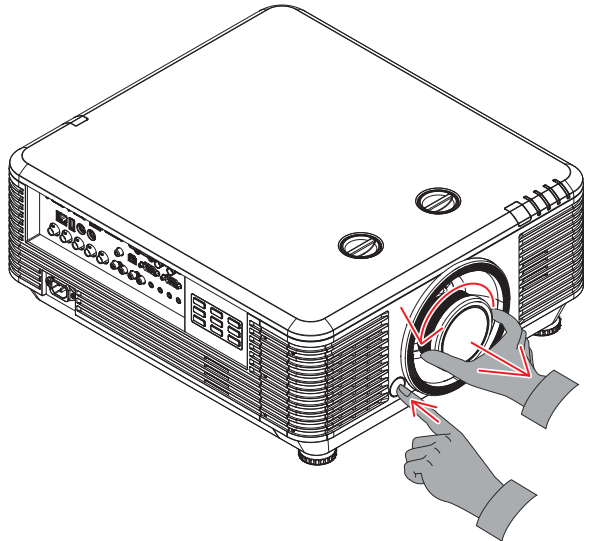
☞ *The lens is shipped separately.*

☞ *Take care to preserve the original lens packaging and protective caps for future use.*
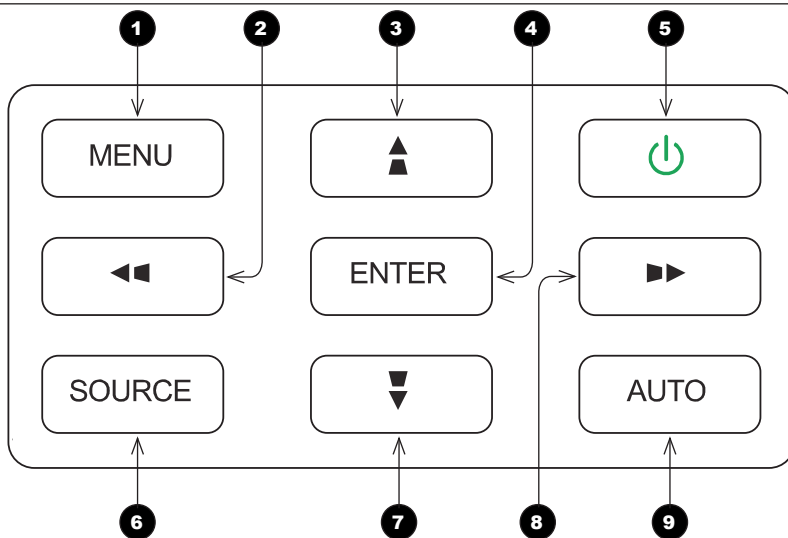
☞ *The projector will not power on without the lens fitted.*

1. Push in the lens release button, and turn the lens anti-clockwise.

2. Slowly pull the lens out of the socket.

Control Panel Reference

<table>
<tr><td>1</td><td>

MENU
Opens and exits OSD menus.
</td></tr>
<tr><td>2</td><td>

Keystone LEFT ◄◄
Navigates and changes settings in the OSD.
Adjusts **Horizontal Keystone**.
</td></tr>
<tr><td>3</td><td>

Keystone UP ▲
Navigates and changes settings in the OSD.
Adjusts **Vertical Keystone**.
</td></tr>
<tr><td>4</td><td>

ENTER
Enters and confirms settings in the OSD.
</td></tr>
<tr><td>5</td><td>

POWER
Turns the projector on and off.
</td></tr>
<tr><td>6</td><td>

SOURCE
Opens the **Source** menu.
</td></tr>
<tr><td>7</td><td>

Keystone DOWN ▼
Navigates and changes settings in the OSD.
Adjusts **Vertical Keystone**.
</td></tr>
<tr><td>8</td><td>

Keystone RIGHT ►►
Navigates and changes settings in the OSD.
Adjusts **Horizontal Keystone**.
</td></tr>
<tr><td>9</td><td>

AUTO
Optimizes image size, position and resolution.
</td></tr>
</table>

Projector indicators
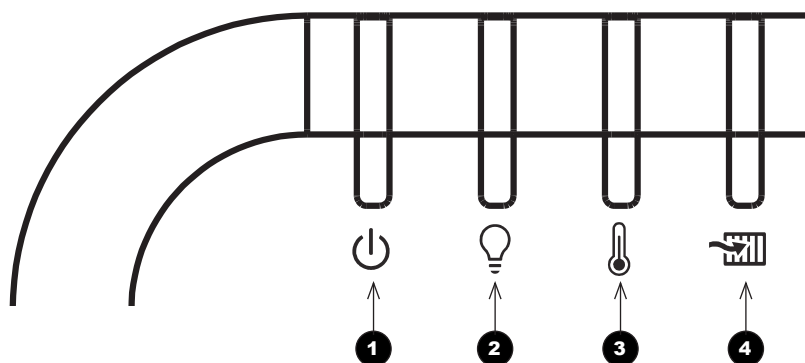
Power LED
Displays power on/off sequence status.

Light source LED
Displays light source status.

Temp LED
Displays thermal status.

Filter LED
Displays filter replacing warning message.

Remote Control Reference

1 **Power ON**

2 **PC**
Displays the **PC** source selection.

3 **HDMI**
Displays the **HDMI 1 / HDMI 2 / DVI**
source selection (toggle).

4 **USB**
This button is not used in this configuration.
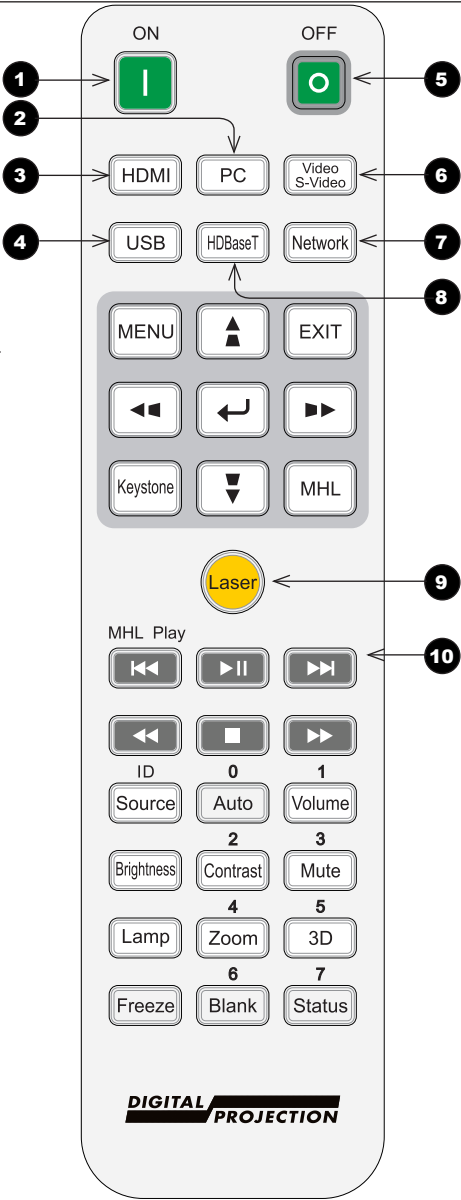
5 **Power OFF**
Turns the projector off.

6 **Video / S-Video**
Displays the **Video** source selection.

7 **Network**
Opens the **Network** menu.

8 **HDBaseT**
Displays the **HDBaseT** source selection.

9 **Laser**
Press to operate the on-screen pointer. DO
NOT POINT IN EYES.

10 **MHL Play controls**
Play, pause, stop, rewind and fast forward
MHL content..

Remote Control reference continued...

11 **Keystone UP ▲**
Navigates and changes settings in the OSD.
Adjusts **Vertical Keystone**.

12 **MENU**
Opens the OSD.

13 **Keystone LEFT ◄◄**
Navigates and changes settings in the OSD.
Adjusts **Horizontal Keystone**.

14 **Keystone**
Selects the HDBaseT input.
Use with **ALT** to switch the green DMD on and off. This functionality is disabled when the projector is showing a test pattern.

15 **Keystone DOWN ▼**
Navigates and changes settings in the OSD.
Adjusts **Vertical Keystone**.

16 **EXIT**
Returns to the previous OSD page.

17 **Keystone RIGHT ►►**
Navigates and changes settings in the OSD.
Adjusts **Horizontal Keystone**.

18 **ENTER**
Enters and confirms settings in the OSD.

19 **MHL**
Enables the Mobile High-Definition Link technology feature for smart devices.
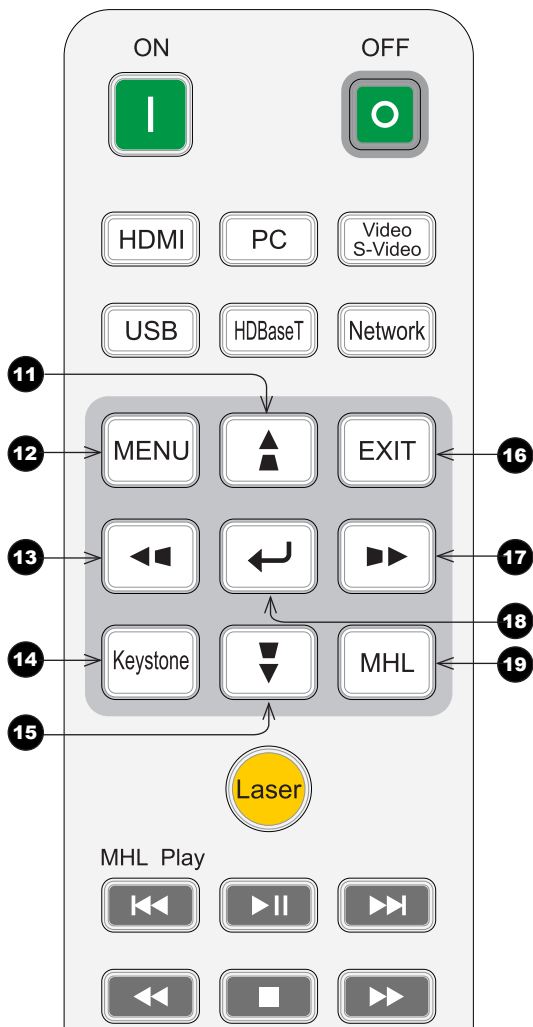
Remote Control reference continued...

20   **Auto / ID input 0**
Automatically adjusts frequency, phase and position.
Use with **Source** / **ID** to set the remote ID to **0**.

21   **Source / ID**
Selects the next input source.
Press with a number key to set
a remote control ID.

22   **Brightness**
Displays the **Brightness** slider.

23   **Zoom / ID input 4**
Displays the zoom control.
Use with **Source** / **ID** to set the
remote ID to **4**.

24   **Lamp**
Shows the light source
selections.

25   **Freeze**
Freezes / unfreezes the current
frame.

26   **Blank / ID input 6**
Blanks out the screen.
Use with **Source** / **ID** to set the
remote ID to **6**.

27   **Volume / ID input 1**
Displays the **Volume** slider.
Use with **Source** / **ID** to set the
remote ID to **1**.

28   **Contrast / ID input 2**
Displays the **Contrast** slider.
Use with **Source** / **ID** to set the remote ID to **2**.

29   **Mute / ID input 3**
Mutes the built-in speaker.
Use with **Source** / **ID** to set the remote ID to **3**.

30   **3D / ID input 5**
Opens the **3D Settings** menu.
Use with **Source** / **ID** to set the remote ID to **5**.

31   **Status / ID input 7**
Opens the **Status** menu (only if an input source is detected).
Use with **Source** / **ID** to set the remote ID to **7**.