

# **A Delta Associate Company**

# Titan Laser Series 4K-UHD & WUXGA Models



Super High Brightness Digital Video Projector **Important Information** 

Rev B January 2019 119-708

# **Digital Projection**

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

3906 BTU/hr at 110 VAC

# 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.

# **Electrical and physical specifications**

	Titan Laser 37000 WU Titan Laser 33000 4K-UHD	Titan Laser 29000 WU Titan Laser 26000 4K-UHD
Mains Voltage	200 - 240 VAC 17 A 50/60 Hz	200-240 VAC 15.5A 50/60Hz
Operating Temperature	0°C to 40°C	0°C to 40°C
Storage Temperature	-20°C to 60°C	-20°C to 60°C
Operating Humidity	20% to 90% non-condensing	20% to 90% non-condensing
Weight	100 kg (220.5 lb) without lens	100 kg (220.5 lb) without lens
Power Consumption	3400 W at 200 VAC	3100 W at 200 VAC
	1145 W at 110 VAC	1145 W at 110 VAC
Thermal Dissipation	11604 BTU/hr at 200 VAC	10577 BTU/hr at 200 VAC

3906 BTU/hr at 110 VAC



Specifications are subject to change without notice.



110V operation is only available on the USA model. Light output power is reduced to approx 30% when operating on 110V.

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## 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.

Non-laser emission. There remains non-laser emission from the projection lens. This portion of emission has been tested per IEC/EN 62471 to be Risk Group 3.

When long zoom lens (throw ratio 4.16~6.96:1) is used, the lens cap must be installed before the laser is turned on.

Titan Laser 37000 WU	Titan Laser 29000 WU
Titan Laser 33000 4K-UHD	Titan Laser 26000 4K-UHD

Laser Parameters:

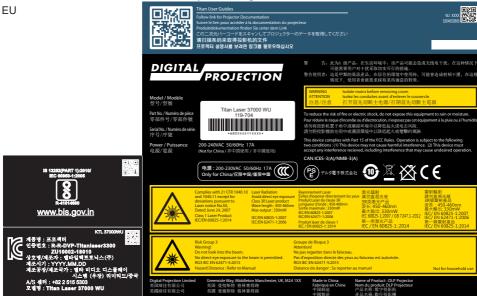
Wavelength 450 nm - 460 nm 450 nm - 460 nm Laser Power for classification 333.5 mW 333.5 mW > 100 W > 100 W

Apparent Source Size > 100 mm at lens stop > 100 mm at lens stop

Divergence 100 miliRadian 100 miliRadian

# **Product labels**

Manufacturers ID Label and Explanatory Label



China:

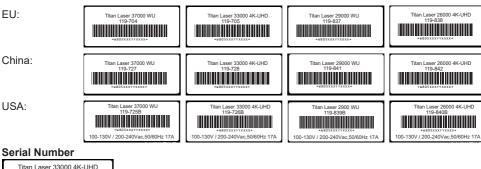


USA:



This includes the following information:

## **Product Identification**





## **Certification Statement**



#### **Risk Statement**



# **Hazard Warning Symbol and Aperture Label**



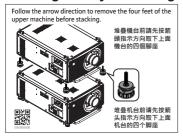
## **Mains Information**



# **Maintenance Warning**



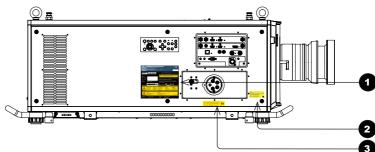
# **Stacking and Eyebolt Usage Notices**



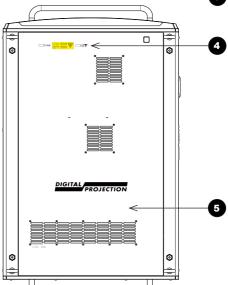
# **Eyebolt Usage Notice**



## **Label locations**

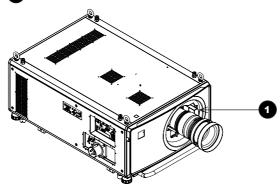


- 1 Location of Manufacturer's ID Label with Product Identification, Serial Number, Certification Statement and Risk Statement on the body of the projector
- 2 Location of Maintenance Warning
- Location of Mains Information
   Label
- Location of Hazard Warning
   Symbol and Aperture Label on the
   body of the projector
- 5 Protective Housing Label (under the top cover and only visible to service personnel)



# Location of laser aperture

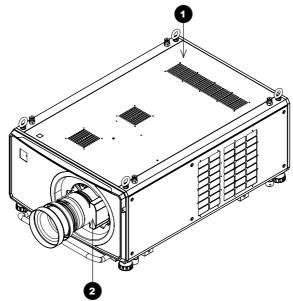
The laser aperture 1 is located as indicated below.



# Interlock switches

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

- 1 Will be activated when the top cover is removed.
- Will be activated when the projection lens is removed.



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# **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.

Do not use the carry handles to mount or hang the projector.

# 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.

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

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.

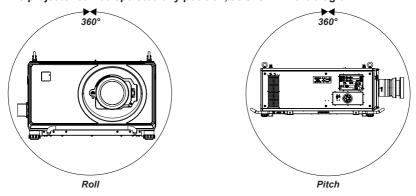
When stacking projectors, the stack MUST be vertical, to ensure that the stresses are distributed to all four chassis corners.

Do not stack more than 2 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.

The projector can be operated any position, as shown in the diagram:



FDA regulations require that a lens Hood is permanently fitted when using the 4.16-6.96:1 lens with the Titan Laser range of projectors in the United States of America. Fitting can be provided by your reseller or System Integrator.

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When using projectors in environments with third party high power laser systems avoid direct laser beams pointing towards the projection lens. This may cause incident light to converge into the optical engine and cause damage to the DLP DMD.

Please pay attention to projector installation with respect to other staging laser light equipment set-up. These systems can cause permanent damage to the DMD imaging devices used in our projectors. This damage is not covered by our warranty.

Make sure the lens cap is removed from the rear of the lens before it is inserted into the projector.

Make sure the lens caps are removed from the lens before operating the projector. Light energy levels this have been known to cause damage to both the lens and projector optics. This damage is not covered by our warranty.

# Light hazard warning



Failure to comply with the following may result in serious injury:

- No direct exposure to the beam is permitted, RG3 IEC 62471-5:2015.
- Operators control access to the beam within the hazard distance or install the projector at sufficient height to prevent exposures of spectators' eyes within the hazard distance.

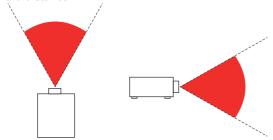


Fig. 1: hazard distance

The hazard distance (Fig. 1) is the distance measured from the projection lens at which the intensity or energy per unit of surface is lower than the applicable exposure limit on the cornea or skin. If the person is within the hazard distance, the beam is considered unsafe for exposure.

# Light hazard distances

Lens	Hazard Distance
0.67: 1 1.12: 1 1.16-1.49:1 1.39-1.87:1 1.87-2.56:1 2.56-4.16:1 4.16-6.96:1	2m 3.5m 5.5m 6.5m 8.5m 10.5m 14m
6.92 - 10.36:1	14111



Do not use the 0.67:1 and 1.12:1 fixed throw lenses with the 4K-UHD projectors

# 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



## 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 maximum sound pressure level is 52 dB (A) according to ISO 3744 or ISO 7779.

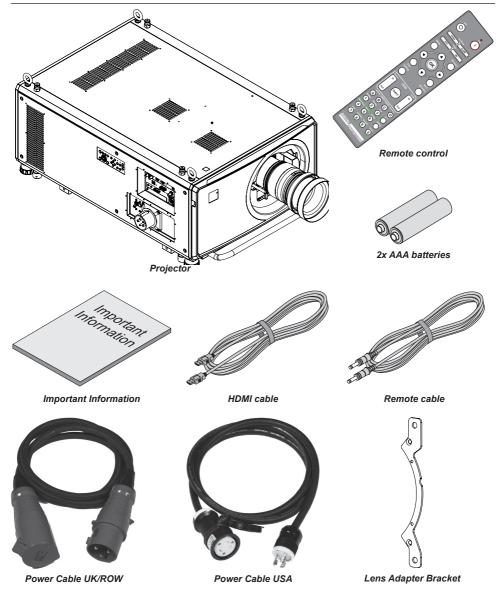
# European Waste Electrical and Electronic Equipment (WEEE) Directive



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.

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# Whats in the Box?

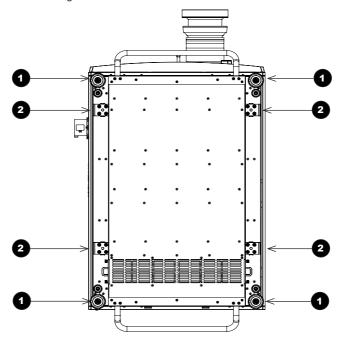


# **Basic Operation Instructions**

# 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 to mount the projector in inverted ceiling installations.



Four adjustable feet

Four M10 holes for ceiling mount

The screws should not penetrate more than 30 mm into the body of the projector.

Do not use the threaded holes for the adjustable feet to hang or mount the projector.

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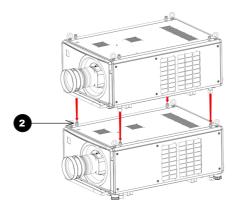
# Stacking and rigging

The top of the projector has pins and the bottom of the projector has cups. The pins and cups can connect together and be locked into place with a locking pin.



This system should only be used to stack a maximum two projectors.

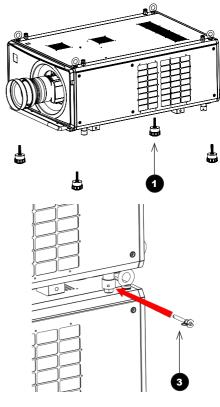
- 1. Remove the adjustable feet from the projector that will be stacked on the top.
- Mount the projector on top of the other projector.
   Ensure that all four cups are placed over the pins on the bottom projector.
- 3. Push the locking pins into place on each cup and pin. 3

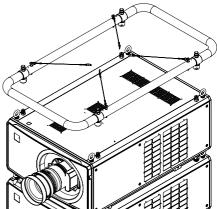


A mouting rail may also be fitted using the pin and cup system. This is an optional accessory to the projector. It can be used with commercially available rigging truss clamps to attach the projector to a staging or lighting truss.



Only qualified riggers should make this installation after careful consideration of the strength and safety of the truss.





## **Important Information**

Four eye-bolts are fitted to the top of the projector to enable the flying of the projector using steel wire or chains.



This system should only be used to fly a single projector. Do not stack projectors and fly them together.

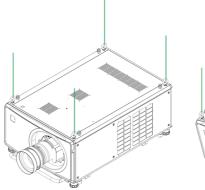
## **Point-to point connections**

Refer to the following guidelines when connecting one end of a suspension cable directly to an eyebolt and the other to a suspension point.

- The suspension cables can be connected to the eye-bolts at an angle of up to 45° around the eye ring.
- The suspension cables must not be connect to the eye-bolts at any angle across the eye ring.
- The suspension cable must run vertically up m the projector.

1 2

Examples of correct configurations:





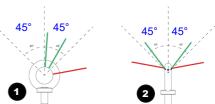
Example of an incorrect configuration



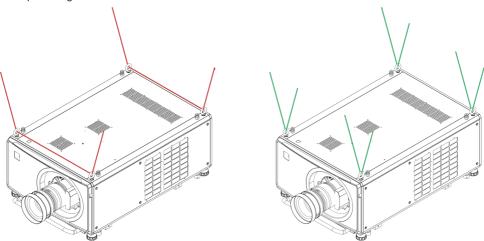
## Threaded suspension cables

Refer to the following guidelines when threading the suspension cable through the eye-bolts and connecting both ends to suspension points.

- The suspension cable can exit the eye-bolts at an angle of up to 45° around the eye ring.
- The suspension cable can exit the eye-bolts at an angle of up to 45° across the eye ring.
- The suspension cable should not be threaded through 2 or more eye-bolts



## Example configurations:



Do not use the carry handles to mount or hang the projector.

## Inserting a new lens



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



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



The lens release lever should always be set to the locked position to prevent the lens from falling out.



Do not place the projector with its front panel down on a surface, as this may damage the lens or the lens release lever.



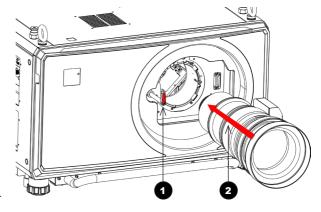
Avoid touching the surface of the lens as this may result in image impairment.

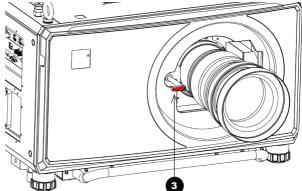


Take care to preserve the original lens packaging and protective caps for future use.

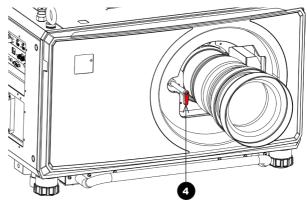
- 1. Turn the lens release lever clockwise so that it is pointing upwards, to open the lock fully.
- Remove the rear lens cap from the lens.
- 3. Insert the lens into the lens aperture, making sure that the plug on the zoom drive mechanism lines up with the socket on the front of the projector, then push the lens in firmly as far as it will go. 2
- Turn the lens release lever anticlockwise to the mid-position.







- The lens can now be pushed in further. Push the lens in firmly as far as it will go. 5.
- 6. Turn the lens release lever fully anti-clockwise so that it is pointing downwards, to close the lock fully. 4



## Removing the lens

To remove the lens, reverse the procedure described in **Inserting a new lens** above:

- Turn the release lever up to the mid-position, then pull the lens out as far as it will go.
- 2. Turn the release lever clockwise so it is pointing upwards, then pull the lens out completely.

# Fitting a lens hood

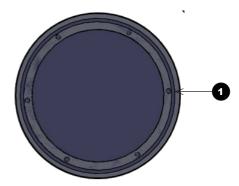


FDA regulations requires that a lens Hood is permanently fitted when using the 4.16-6.96:1 Iens with the Titan Laser range of projectors in the United States of America. Fitting can be provided by your reseller or System Integrator.

Remove the six screws. 1

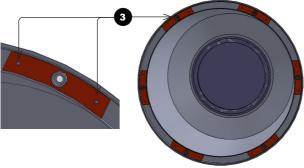


2. Remove the lens glass



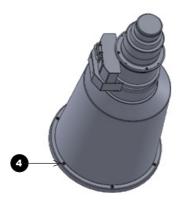
- 3. Place hood over the lens, aligned with the screw holes.
- 4. Screw in the six screws to secure the hood.
- 5. Pace the six sponges over the locating pins on the hood.







- 6. Place the glass and bracket over the hood.
- Screw in the six screws to secure the glass and bracket to the hood.



## Connecting the power supply

Rest of the world:



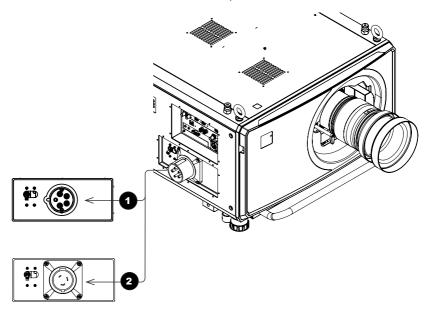
Firmly push the mains connector into the **socket**.

USA only:



Firmly push the mains connector into the **socket**.

Rotate the connector 90° clockwise to lock it in place





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.

The USA model can operate at 110V or 200V. Voltage selection is automatic, but the projector must be powered off before switching power outlets.



Light output power is reduced to approx 30% when using the USA model and operating on 110V.

# Switching the projector on

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

The **POWER** indicator turns red to signal that the projecter is on and in STANDBY mode.

- 2. 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 as the projector powers up. When the flashing stops, the **POWER** indicator lights solid green and the Digital Projection logo appears on the screen. The projector is switched on and projecting.

# Switching the projector off

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

The **POWER** indicator on the control panel will start flashing blue, the projected image will turn off and the cooling fans will run for a short time until the **POWER** indicator goes steady red to indicate that the projector has entered STANDBY mode.

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

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## Selecting an input signal

- 1. Connect one or more image sources to the projector.
- 2. Select the input you want to display:
  - Press one of the input buttons on the remote control.
  - Alternatively, open the On-screen display (OSD) by pressing MENU. Highlight Input from the
    main menu, press ENTER/OK and then select an input signal using the UP and DOWN arrow
    buttons. Press ENTER/OK to confirm your choice.

## Selecting a test pattern

To display a test pattern:

- Press TEST on the remote control. If necessary, press again to change the test pattern. Test
  patterns are displayed in the following order:
  - Off, White, Black, Red, Green, Blue, CheckerBoard, CrossHatch, V Burst, H Burst, ColorBar

After the final test pattern, the projector exits test pattern mode and returns to the main image. To view test patterns again, you need to press **TEST** again.

 Alternatively, open the OSD by pressing MENU. Highlight Test Patterns from the main menu, then select a test pattern using the LEFT and RIGHT arrow buttons.

## Adjusting the lens

The lens can be adjusted using the **Lens** menu, or using the lens buttons on the remote control.

#### Lens menu

The Lens menu provides access to the Lens Control setting and the Lens Center command.

**Lens Control** allows **Zoom**, **Focus** and **Shift** adjustment using the arrow buttons. The setting operates in **Zoom/Focus Adjustment** and **Shift Adjustment** mode.

Press **ENTER/SELECT** to switch between the two modes

#### Remote control

Use the remote control to adjust zoom, focus and shift directly, without opening a menu:

- OK enters lens control, then switches between Zoom/Focus Adjustment and Shift Adjustment.
- **EXIT** exits lens control and opens the **Lens** menu.
- MENU exits lens control and returns to the main image.
- The arrow buttons adjust zoom, focus and shift as indicated on the screen.

## Adjusting the image

#### Orientation

This can be set from the Setup menu.

Highlight Orientation and choose from Front Tabletop, Front Ceiling, Rear Tabletop and Rear Ceiling.

## Kevstone

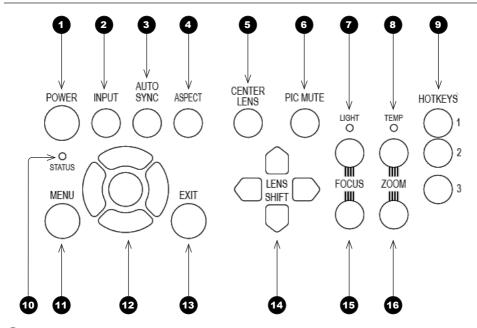
This can be set from the Geometry menu.

#### Picture

 Settings such as Gamma, Brightness, Contrast, Saturation, Hue and Sharpness can be set from the Image menu

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## **Control Panel Reference**



POWER

Switches the projector on and off (STANDBY).

Indicator:

Off = the projector is switched off

Flashing green = the projector is warming up

Flashing blue = the projector is cooling down

On, red = STANDBY mode

On, green = the projector is switched on

2 INPUT

Switches to the next input source.

3 AUTO SYNC

Re-synchronises with the current input signal.

4 ASPECT

Changes the aspect ratio.

5 CENTER LENS

Centers the lens.

6 PIC MUTE
Switches the laser off/on.

Indicator:

Off = the projector is in standby

On, blue = the projector is on, normal projection

On, red = the projector is on, picture mute is activated

## **Important Information**

#### 8 LIGHT INDICATOR

Off = light is switched off

Flashing red (cycles of single flashes) = failure to light up during power up

Flashing red (cycles of double flashes) = failure to light up

On, green = light is switched on

## **TEMP INDICATOR**

Off = no problem

Flashing red = temperature error

## **HOTKEYS**

User selectable functions

Pre-set functions:

HOTKEY 1 Information HOTKEY 2 Test Pattern HOTKEY 3 Lens Memory Load

Additional options:

Picture Mode

**Ambient Brightness Correction** 

Freeze

PIP Swap

#### lacktriangledown**STATUS**

Off = no problem

Flashing red (continuously) = cover error

Flashing red (cycles of four flashes) = fan error

On, red = system error

#### **MENU**

Displays and exits the OSD.

#### Ø Arrow buttons & ENTER

Navigation buttons used to highlight menu entries in the OSD.

Press **ENTER** to open or execute the highlighted menu entry.

#### 13 **EXIT**

Exits the current OSD page and enters the level above.

#### **LENS SHIFT arrow buttons**

Each of these buttons moves the lens in the specified direction.

#### Œ **FOCUS** plus and minus buttons

Used to move the focus in and out

#### 16 **ZOOM** plus and minus buttons

Used to zoom in and out

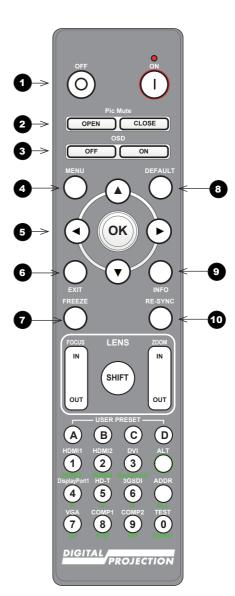
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## **Remote Control Reference**

Power ON/OFF

Turns the projector on and off.
To turn the projector off, press the
OFF button twice within five seconds.

- Pic Mute OPEN / CLOSE
  Shows and hides the projected image.
- 3 OSD ON / OFF
  Enables and disables screen timeout
  messages and showing the OSD
  during projection.
- Access the projector OSD (on-screen display). If the OSD is open, press this button to go back to the previous menu.
- Navigation (arrows and OK)
  Navigate through the menus with the arrows, confirm your choice with OK.
  In lens adjustment modes, the arrows are used to move, zoom or focus the lens. See 11 below.
  In lens adjustment modes, or when the OSD is not showing, the OK button switches between modes:
  Shift Adjustment and Zoom / Focus Adjustment.
- 6 EXIT
  Close the current OSD page and return to the level above.
- FREEZE Freeze the current frame.
- DEFAULT Restore default settings.
- 9 INFO Access information about the projector.
- RE-SYNC
  Re-synchronise with the current input signal.



LENS adjustment FOCUS IN / OUT: adjust focus.

**SHIFT:** press and hold this button, then use the Navigation arrow buttons to move the lens.

**ZOOM IN / OUT:** adjust zoom.

If focus cannot be achieved using the focus in / out feature, press Shift & 7 to adjust for far focus, or Shift & 8 to adjust for near focus.

USER PRESET A, B, C, D Load user presets.

ALT
Press and hold this button to
access alternative functions for all
buttons with a green label.

DVI / DisplayPort2 / numeric input 3

There is no DVI input on this projector.

There is no DisplayPort2 input on this projector

HDMI 2 / HDMI 4 / numeric input

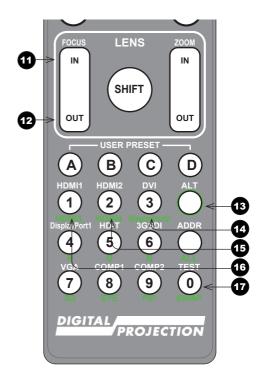
Select the HDMI 1 input.
Use with **ALT** to switch to the HDMI 4 input.

HDMI 1 / HDMI 3 / numeric input

Select the HDMI 1 input. Use with **ALT** to switch to the HDMI 3 input.

TEST / SWAP / numeric input 0
Show a test pattern. Press again
to show the next test pattern:
...Off, White, Black, Red,

...Off, White, Black, Red,
Green, Blue, Checkerboard,
CrossHatch, V Burst, H Burst, ColorBar, Pluge...
Use with ALT to SWAP the Main and PIP displays.



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- B DisplayPort 1 / R / numeric input 4
  Select the DisplayPort 1 input.
  Use with ALT to toggle the Red
  channel on and off
- HD-T / G / numeric input 5
  Select the HDBaseT input.
  Use with ALT to toggle the Green channel on and off
- SDI / B / numeric input 6
  Select the 3G-SDI input.
  Use with ALT to toggle the Blue channel on and off
- VGA / 3D / numeric input 7
  Select the VGA input.
  Use with ALT to toggle the 3D
  Format setting between Off and
  Auto.
- COMP1 / EYE / numeric input 8
  There is no Component 1 input on
  this projector
  Use with ALT to switch between left
  and right eye 3D dominance.
- COMP2 / PIP / numeric input 9
  There is no Componenet 2 input on this projector
  Use with ALT to toggle the PIP window on and off.
- ADDR / ALL
  Assign and unassign an IR remote address.

## To assign an address:

- Press and hold this button until the indicator starts flashing.
- Release this button and while the indicator is still flashing, enter a two-digit address using the numeric input buttons. The indicator will flash three times quickly to confirm the change.

# To unassign an address and return to the default address 00,

 Press and hold ALT and this button simultaneously until the indicator flashes to confirm the change.

