

DIGITAL **PROJECTION**

A brand of  **DELTA**

E-Vision 13500i WU

E-Vision 16000i WU

E-Vision 24000i WU

E-Vision 12000i 4K+

E-Vision 15000i 4K+

E-Vision 22000i 4K+

IMPORTANT INFORMATION



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Introduction

This manual describes the E-Vision 13500i/16000i/24000i WU & E-Vision 12000i/15000i/22000i 4K+. Congratulations on your purchase of this Digital Projection product. Your projector has the following key features:

- WUXGA/4K+ projector.
- Support for Frame Sequential and Dual Pipe 3D formats(For E-Vision 13500i/16000i/24000i WU).
- HDBaseT® for transmission of uncompressed High Definition Video up to 100 m from the source.
- SDI with loop-through.
- Edge Blend with black level correction.
- Blanking control for custom input window sizing.
- Cornerstone, Vertical & Horizontal Keystone, Pincushion & Barrel, and Image Rotation.
- Control via LAN and RS232.
- Motorised lens mount.
- Separate control of screen and source aspect ratio.
- Non-linear warp for irregular projection surfaces.
- Constant brightness mode maintains light output at selected levels.

A serial number is located on the side of the projector. Please record it here for future reference:

Symbols used in this manual

Many pages in this document have a dedicated area for notes. The information in that area is accompanied by the following symbols:



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.



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



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



LIGHT HAZARD WARNING: this symbol indicates that there is a danger of exposure to intensive light that may result in personal injury unless the instructions are closely followed.



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

Product revision

Because we at Digital Projection continually strive to improve our products, we may change specifications and designs, and add new features without prior notice.

Additional Documentation

Updates to this manual may be available online.

Please use the QR code (also located on the projector) to access the latest E-Vision projector user guides and other documentation via the Digital Projection website.



Or visit the products specification page on the Digital Projection website to download the latest user guide and other documentation.

Legal notice

Trademarks and trade names mentioned in this document remain the property of their respective owners.

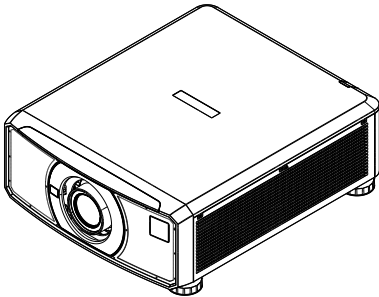
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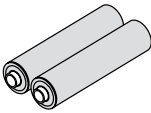
What's In The Box?



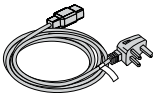
Projector



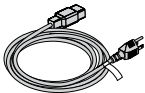
Remote Control



Batteries



Power Cable, UK



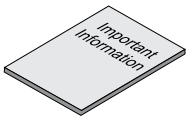
Power Cable, USA



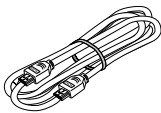
Power Cable, Europe



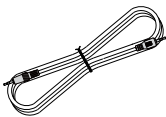
Power Cable, China



Important Information Book



HDMI Cable



Remote Control Cable

-  *Make sure your box contains everything listed. If any pieces are missing, contact your dealer.*
-  *Only one remote is supplied with the projector.*
-  *Save and store the original box and packing materials, in case you ever need to ship your projector.*
-  *The projector is shipped without a lens.*
-  *Only the appropriate power cable for the destination territory is supplied with the projector.*

Electrical and Physical Specifications

E-Vision 13500i WU

Mains Voltage	100-240 VAC 11.0A 50/60Hz
Operating Temperature	0°C to 40°C (32°F to 104°F) in Normal mode 35°C to 40°C (95°F to 104°F) with reduced light output in ECO mode
Storage Temperature	-20°C to 60°C (-4°F to 140°F)
Operating Humidity	90% (with maximum temperature of 35°C) non-condensing
Storage Humidity	10% to 90% non-condensing
Dimensions	W 500 mm (19.8 in), H 218 mm (8.6 in), D 598 mm (23.5 in)
Weight	29.4 kg (64.8 lb) without lens
Power Consumption	at 110VAC - typical 730 W, max 750 W in Normal mode at 110VAC - typical 570 W, max 590 W in Eco mode at 110VAC - typical 590 W, max 610 W in High Altitude mode at 220VAC - typical 720 W, max 740 W in Normal mode at 220VAC - typical 560 W, max 580 W in Eco mode at 220VAC - typical 580 W, max 600 W in High Altitude mode
Standby Power	<0.5W in Super ECO mode, <3W in ECO mode, <30W in Normal mode
Thermal Dissipation	at 110 VAC: typical 2491 BTU/hr, max 2560 BTU/hr in Normal mode at 110 VAC: typical 1945 BTU/hr, max 2014 BTU/hr in ECO mode at 110 VAC: typical 2014 BTU/hr, max 2082 BTU/hr in High Altitude mode at 220 VAC: typical 2457 BTU/hr, max 2526 BTU/hr in Normal mode at 220 VAC: typical 1911 BTU/hr, max 1980 BTU/hr in ECO mode at 220 VAC: typical 1980 BTU/hr, max 2048 BTU/hr in High Altitude mode
Fan Noise	typical 36dB, max 38dB in Normal mode / typical 33dB, max 35dB in ECO mode.

E-Vision 16000i WU

Mains Voltage	100-240 VAC 11.0A 50/60Hz
Operating Temperature	0°C to 40°C (32°F to 104°F) in Normal mode 35°C to 40°C (95°F to 104°F) with reduced light output in ECO mode
Storage Temperature	-20°C to 60°C (-4°F to 140°F)
Operating Humidity	90% (with maximum temperature of 35°C) non-condensing
Storage Humidity	10% to 90% non-condensing
Dimensions	W 500 mm (19.8 in), H 218 mm (8.6 in), D 598 mm (23.5 in)
Weight	29.4 kg (64.8 lb) without lens
Power Consumption	at 110VAC - typical 900 W, max 950 W in Normal mode at 110VAC - typical 725 W, max 750 W in Eco mode at 110VAC - typical 700 W, max 800 W in High Altitude mode at 220VAC - typical 860 W, max 900 W in Normal mode at 220VAC - typical 665 W, max 700 W in Eco mode at 220VAC - typical 680 W, max 780 W in High Altitude mode
Standby Power	<0.5W in Super ECO mode, <3W in ECO mode, <25W in Normal mode
Thermal Dissipation	at 110 VAC: typical 3072 BTU/hr, max 3242 BTU/hr in Normal mode at 110 VAC: typical 2474 BTU/hr, max 2560 BTU/hr in ECO mode at 110 VAC: typical 2389 BTU/hr, max 2730 BTU/hr in High Altitude mode at 220 VAC: typical 2935 BTU/hr, max 3072 BTU/hr in Normal mode at 220 VAC: typical 2270 BTU/hr, max 2389 BTU/hr in ECO mode at 220 VAC: typical 2321 BTU/hr, max 2662 BTU/hr in High Altitude mode
Fan Noise	typical 39dB, max 41dB in Normal mode / typical 36dB, max 38dB in ECO mode.

E-Vision 24000i WU

Mains Voltage	110-240 VAC 11.0A 50/60Hz
Operating Temperature	0°C to 40°C (32°F to 104°F) in Normal mode 33°C to 40°C (91.4°F to 104°F) with reduced light output in ECO mode
Storage Temperature	-20°C to 60°C (-4°F to 140°F)
Operating Humidity	90% (with maximum temperature of 35°C) non-condensing
Storage Humidity	10% to 90% non-condensing
Dimensions	W 500 mm (19.8 in), H 218 mm (8.6 in), D 598 mm (23.5 in)
Weight	30 kg (66.1 lb) without lens
Power Consumption	at 110VAC - typical 1100 W, max 1200 W in Normal mode at 110VAC - typical 900 W, max 1000 W in High Altitude mode at 220VAC - typical 1300 W, max 1400 W in Normal mode at 220VAC - typical 900 W, max 1000 W in Eco mode at 220VAC - typical 900 W, max 1000 W in High Altitude mode
Standby Power	<0.5W in Super ECO mode, <3W in ECO mode, <25W in Normal mode
Thermal Dissipation	at 110 VAC: typical 3576 BTU/hr, max 4097 BTU/hr in Normal mode at 110 VAC: typical 3073 BTU/hr, max 3415 BTU/hr in High Altitude mode at 220 VAC: typical 4438 BTU/hr, max 4780 BTU/hr in Normal mode at 220 VAC: typical 3073 BTU/hr, max 3415 BTU/hr in ECO mode at 220 VAC: typical 3073 BTU/hr, max 3415 BTU/hr in High Altitude mode
Fan Noise	typical 44dB, max 46dB in Normal mode / typical 39dB, max 41dB in ECO mode

E-Vision 12000i 4K+

Mains Voltage	100-240 VAC 11.0A 50/60Hz
Operating Temperature	0°C to 40°C (32°F to 104°F) in Normal mode 35°C to 40°C (95°F to 104°F) with reduced light output in ECO mode
Storage Temperature	-20°C to 60°C (-4°F to 140°F)
Operating Humidity	90% (with maximum temperature of 35°C) non-condensing
Storage Humidity	10% to 90% non-condensing
Dimensions	W 500 mm (19.8 in), H 218 mm (8.6 in), D 598 mm (23.5 in)
Weight	29.4 kg (64.8 lb) without lens
Power Consumption	at 110VAC - typical 720 W, max 770 W in Normal mode at 110VAC - typical 650 W, max 680 W in Eco mode at 110VAC - typical 590 W, max 640 W in High Altitude mode at 220VAC - typical 690 W, max 720 W in Normal mode at 220VAC - typical 630 W, max 650 W in Eco mode at 220VAC - typical 580 W, max 630 W in High Altitude mode
Standby Power	<0.5W in Super ECO mode, <3W in ECO mode, <25W in Normal mode
Thermal Dissipation	at 110 VAC: typical 2457 BTU/hr, max 2628 BTU/hr in Normal mode at 110 VAC: typical 2218 BTU/hr, max 2321 BTU/hr in ECO mode at 110 VAC: typical 2014 BTU/hr, max 2184 BTU/hr in High Altitude mode at 220 VAC: typical 2355 BTU/hr, max 2457 BTU/hr in Normal mode at 220 VAC: typical 2150 BTU/hr, max 2218 BTU/hr in ECO mode at 220 VAC: typical 1980 BTU/hr, max 2150 BTU/hr in High Altitude mode
Fan Noise	typical 36dB, max 38dB in Normal mode / typical 35dB, max 37dB in ECO mode

E-Vision 15000i 4K+

Mains Voltage	100-240 VAC 11.0A 50/60Hz
Operating Temperature	0°C to 40°C (32°F to 104°F) in Normal mode 35°C to 40°C (95°F to 104°F) with reduced light output in ECO mode
Storage Temperature	-20°C to 60°C (-4°F to 140°F)
Operating Humidity	90% (with maximum temperature of 35°C) non-condensing
Storage Humidity	10% to 90% non-condensing
Dimensions	W 500 mm (19.8 in), H 218 mm (8.6 in), D 598 mm (23.5 in)
Weight	29.4 kg (64.8 lb) without lens
Power Consumption	at 110VAC - typical 900 W, max 1024 W in Normal mode at 110VAC - typical 780 W, max 880 W in Eco mode at 110VAC - typical 750 W, max 860 W in High Altitude mode at 220VAC - typical 860 W, max 960 W in Normal mode at 220VAC - typical 760 W, max 870 W in Eco mode at 220VAC - typical 740 W, max 850 W in High Altitude mode
Standby Power	<0.5W in Super ECO mode, <3W in ECO mode, <25W in Normal mode
Thermal Dissipation	at 110 VAC: typical 3072 BTU/hr, max 3495 BTU/hr in Normal mode at 110 VAC: typical 2662 BTU/hr, max 3003 BTU/hr in ECO mode at 110 VAC: typical 2560 BTU/hr, max 2935 BTU/hr in High Altitude mode at 220 VAC: typical 2935 BTU/hr, max 3276 BTU/hr in Normal mode at 220 VAC: typical 2594 BTU/hr, max 2969 BTU/hr in ECO mode at 220 VAC: typical 2526 BTU/hr, max 2901 BTU/hr in High Altitude mode
Fan Noise	typical 40dB, max 42dB in Normal mode / typical 39dB, max 41dB in ECO mode

E-Vision 22000i 4K+

Mains Voltage	110-240 VAC 11.0A 50/60Hz
Operating Temperature	0°C to 40°C (32°F to 104°F) in Normal mode 33°C to 40°C (91.4°F to 104°F) with reduced light output in ECO mode
Storage Temperature	-20°C to 60°C (-4°F to 140°F)
Operating Humidity	90% (with maximum temperature of 35°C) non-condensing
Storage Humidity	10% to 90% non-condensing
Dimensions	W 500 mm (19.8 in), H 218 mm (8.6 in), D 598 mm (23.5 in)
Weight	30 kg (66.1 lb) without lens
Power Consumption	at 110VAC - typical 1100 W, max 1200 W in Normal mode at 110VAC - typical 900W, max 1000 W in Eco mode at 110VAC - typical 900W, max 1000 W in High Altitude mode at 220VAC - typical 1200 W, max 1400 W in Normal mode at 220VAC - typical 900 W, max 1100 W in Eco mode at 220VAC - typical 900 W, max 1100 W in High Altitude mode
Standby Power	<0.5W in Super ECO mode, <3W in ECO mode, <25W in Normal mode
Thermal Dissipation	at 110 VAC: typical 3753 BTU/hr, max 4095 BTU/hr in Normal mode at 110 VAC: typical 3071 BTU/hr, max 3412 BTU/hr in ECO mode at 110 VAC: typical 3071 BTU/hr, max 3412 BTU/hr in High Altitude mode at 220 VAC: typical 4095 BTU/hr, max 4777 BTU/hr in Normal mode at 220 VAC: typical 3071 BTU/hr, max 3753 BTU/hr in ECO mode at 220 VAC: typical 3071 BTU/hr, max 3753 BTU/hr in High Altitude mode
Fan Noise	typical 44dB, max 46dB in Normal mode / typical 39dB, max 41dB in ECO mode



Specifications are subject to change without notice.

General Precautions



Warning! Death or Serious Injury could occur if the following precautions are ignored.



Eye Hazard! Do not look directly into the lens when the light source is on. The high brightness can cause permanent eye damage.



Fire Hazard! Keep any combustible material away from hot surfaces and the projected beam. Ensure cables do not contact hot surfaces.



Shock Hazard! Use only authorized components, tools, accessories and replacement parts specified by the manufacturer.



Trip Hazard! Locate cables where they cannot be pulled, tripped over or damaged by persons or objects.

Operate the product in the specified operating environment and conditions.

Product should be powered off and disconnected from the mains before any service or maintenance operation.

Keep body parts, hair, clothing and jewelry away from moving parts in the product.

Do not operate the product without a lens installed.

Use a lens plug when installing or moving the product.



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.



Service personnel should use effective laser safety goggles during service operations.



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 authorized 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.

Laser Safety Precautions



Warning! Death or Serious Injury could occur if the following precautions are ignored.



Permanent/Temporary Blindness Hazard.

Do not look directly into the lens when the light source is on. The high brightness can cause permanent eye damage.



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

Do not attempt to operate the product without covers in place.

Lens Change should only be carried out by instructed and skilled persons in accordance with the Important Information document or User Manual. If in doubt consult your dealer.

Ensure the projector is switched off and AC power removed before attempting a lens change.



This projector is a Laser Risk Group 2 product when a lens with a throw ratio less than 2.12:1 is installed. It becomes Laser Risk Group 3 when a lens with a throw ratio greater than 2.12:1 is installed.

Laser Risk Group 2 Precautions



Class 1 Laser Product, BS EN IEC 60825-1:2014.

Caution! As with any bright source, do not stare directly into beam, RG2 IEC 62471-5:2015.

The product should be installed and operated in accordance with the provisions of BS EN IEC 62471-5:2015 and the Important Information document or User Manual.

Children should be supervised and never be allowed to stare into the projector beam at any distance from the projector.

Use caution when using a remote control to switch the projector on when standing in front of the projection lens.

Warning! Death or Serious Injury could occur if the following precautions are ignored.

Avoid the use of optical aids, such as binoculars or telescopes, inside the beam.

MOUNT ABOVE THE HEAD HEIGHT OF CHILDREN. It is recommended to use a ceiling mount to place this product above the eyes of children.

Laser Risk Group 3 Precautions



Not for household use.



Class 1 Laser Product, BS EN IEC 60825-1:2014.

No direct exposure to the beam shall be permitted, RG3 BS EN IEC 62471- 5:2015.

Operators shall control access to the beam within the hazard distance or install the product at a height that will prevent exposure of the spectator's eyes within the hazard distance. See "Restriction Zone" - Page 22 Light Hazard Distance and Hazard Zone for more information.

The product should be installed and operated in accordance with the provisions of BS EN IEC 62471-5:2015 and the Important Information document or User Manual by instructed and skilled persons only (BS EN IEC 62368-1:2020).

Notice on laser

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

Do not allow to look into the projector beam at any distance from the projector. An adult should supervise the children to prevent exposure risks.

Check that there is no one looking at the lens, when using the remote control for starting the projector.

Do not look at the projected light using optical devices(binoculars, telescopes, magnifying glasses, reflectors, etc).

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 sound pressure level for the E-Vision 13500i WUXGA is less than 38 dB (A) at normal operating mode according to ISO 3744 or ISO 7779.

The sound pressure level for the E-Vision 16000i WUXGA is less than 41 dB (A) at normal operating mode according to ISO 3744 or ISO 7779.

The sound pressure level for the E-Vision 24000i WUXGA is less than 46 dB (A) at normal operating mode according to ISO 3744 or ISO 7779.

The sound pressure level for the E-Vision 12000i 4K+ is less than 38 dB (A) at normal operating mode according to ISO 3744 or ISO 7779.

The sound pressure level for the E-Vision 15000i 4K+ is less than 42 dB (A) at normal operating mode according to ISO 3744 or ISO 7779.

The sound pressure level for the E-Vision 22000i 4K+ is less than 46 dB (A) at normal operating mode according to ISO 3744 or ISO 7779.

European Waste Electrical and Electronic Equipment (WEEE) Directive



Digital Projection Ltd is fully committed to minimizing 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 minimized.

Product Labels

Projector



13500i / 16000i



15000i



24000i



12000i



22000i



13500i / 16000i

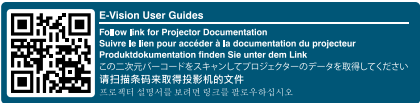


24000i



12000i / 15000i / 22000i

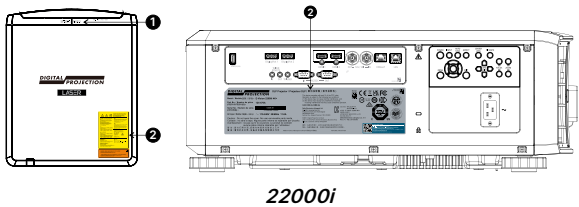
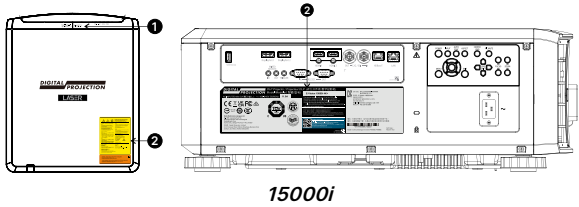
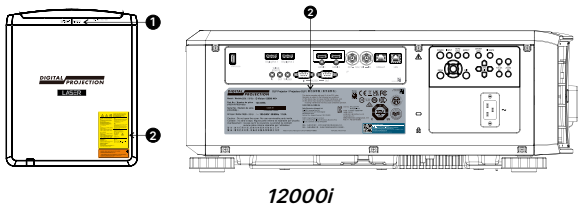
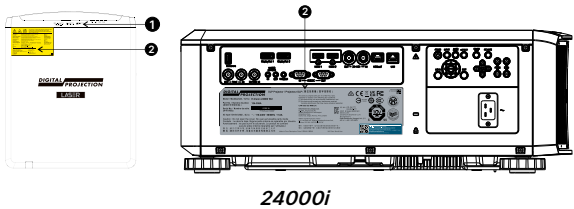
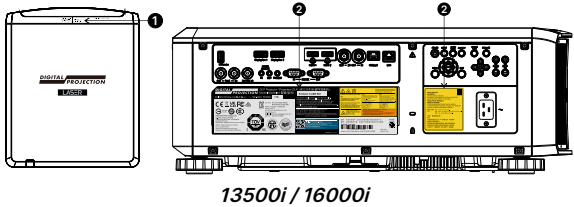
Manufacturers ID & Certification Statement & Explanatory Label



User Guides Label

Label Locations

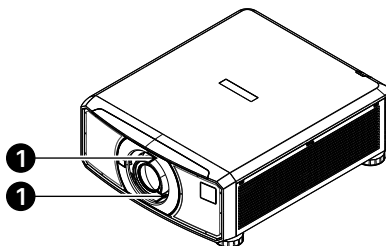
1. Location of Lens Safety Label on the body of the projector.
2. Location of Manufacturer's ID Label, User Guides Label and Explanatory Label with Certification Statement and Risk Statement on the body of the projector.



Interlock Switches

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

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



Installation Precautions



The projector must be installed only by suitably qualified personnel, in accordance with local building codes.

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

Do not drop or knock the projector.

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.

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 within the acceptable operation temperature range.

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.

Avoid installing near an air conditioner duct or a subwoofer.

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.

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.

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™.



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.

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

When installing a ceiling mount, make sure the weight limit is not exceeded and the projector is firmly secured.

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.

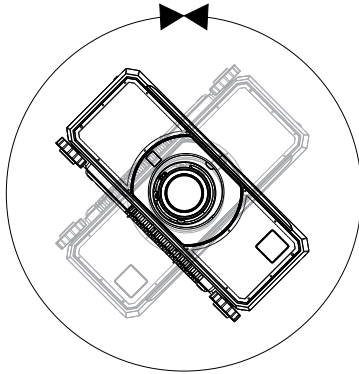
The projector can be operated any position, as shown in the diagram:

Roll and pitch

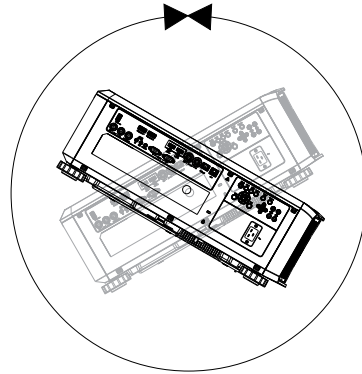
The projector can be operated in numerous positions.



Positioning the projector with the lens facing down or the inputs facing up may reduce motor life.



Roll



Pitch



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.

Laser Hazard Installation Precautions



Do not attempt to access the internal hardware of the projector. Do not attempt to modify or remove the laser module.

Do not operate the projector without its protective covers.

Please consult with a qualified professional to install or remove the lens.



This projector is a Laser Risk Group 2 product when a lens with a throw ratio less than 2.12:1 is installed. It becomes Laser Risk Group 3 when a lens with a throw ratio greater than 2.12:1 is installed.

Laser Risk Group 2 Installation



This product is a Class 1 Risk Group 2 laser product. It must be installed in a safe place.

The product should be installed and operated in accordance with the provisions of BS EN IEC 62471-5:2015 and the Important Information document or User Manual

Do not operate the projector without a lens installed.

MOUNT ABOVE THE HEAD HEIGHT OF CHILDREN. It is recommended to use a ceiling mount to place this product above the eyes of children.

Laser Risk Group 3 Installation Precautions



This product is a Class 1 Risk Group 3 laser product. It must be installed in a safe place and must be handled by qualified and professionally trained personnel.

Operators shall control access to the beam within the hazard distance or install the product at a height that will prevent exposure of the spectator's eyes within the hazard distance.

The product should be installed and operated in accordance with the provisions of BS EN IEC 62471-5:2015 and the Important Information document or User Manual by instructed and skilled persons only (BS EN IEC 62368-1:2020).

Light Hazard Warning



No direct exposure to the beam is permitted, RG3 BS EN IEC 62471-5:2015.

Light Hazard Distance and Hazard Zone



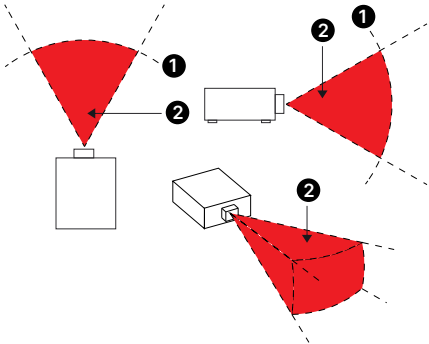
Hazard Distances for Laser Risk Group 3 variants. Operators should control access to the beam within the hazard distance or install the projector at sufficient height to prevent exposures of spectators’ eyes within the hazard area.

When the projector is installed overhead, allow a minimum of 3m between the floor surface and the Light Hazard Zone.

The hazard distance 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 ①.

The hazard zone is the area from the projection lens up to the hazard distance that encompasses where the projected beam is considered hazardous ②.

If the person is within the hazard distance, the beam is considered unsafe for exposure.



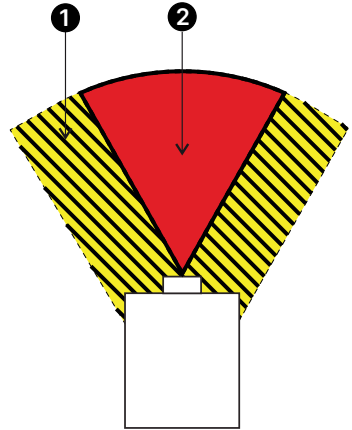
The hazard distance for this projector is related to the fitted lens:

LENS	HAZARD DISTANCE		
	E-Vision 12000i 4K+ E-Vision 15000i 4K+	E-Vision 13500i WU E-Vision 16000i WU	E-Vision 24000i WU E-Vision 22000i 4K+
0.31 ~ 0.33			
0.55 ~ 0.75			
0.74 ~ 1.08			
1.05 ~ 1.41			
1.40 ~ 2.11			1.2m
2.10 ~ 4.00	2.0m	2.0m	2.5m
3.00 ~ 4.52	2.8m	2.8m	3.1m
4.46 ~ 6.94	3.1m	3.1m	3.6m

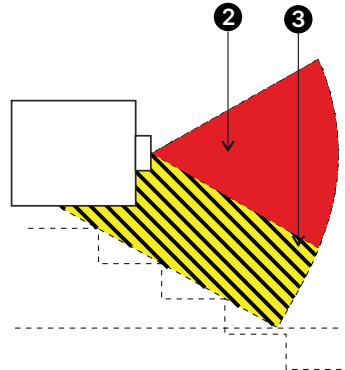
Restriction Zone

A restriction zone should be in place around the hazard zone to prevent any person from entering the hazard zone with any part of their body:

- Horizontal clearance ①. This should be no less than 2.5m around the hazard zone ②.
- Vertical clearance ③. This should be no less than 3m between the hazard zone ② and the floor when the projector is installed overhead.



Hazard Zones - Horizontal Clearance (Top View)



Hazard Zones - Vertical Clearance (Side View)

Changing 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.



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



The lens is shipped separately.



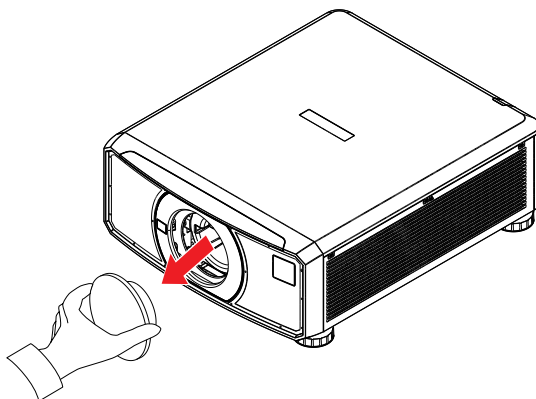
Take care to preserve the original lens packaging and protective caps for future use.



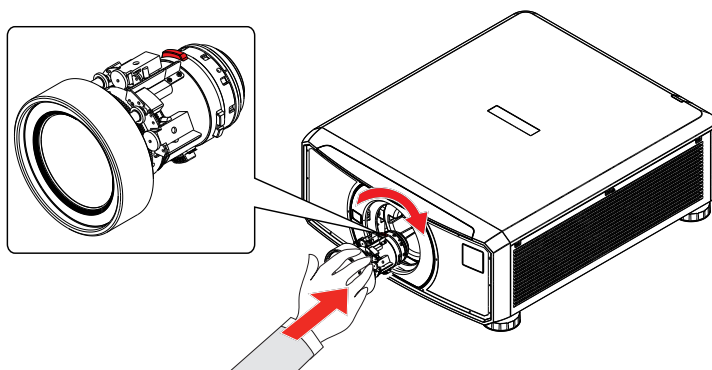
The projector will not power on without the lens fitted.

Inserting a new lens

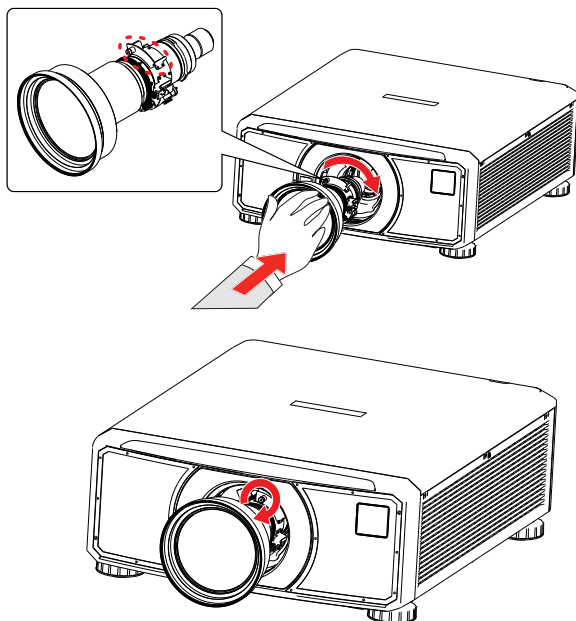
1. Remove the lens aperture cap from the projector.



2. Remove the front and rear lens caps from the lens.
3. Align the flange and correctly position at the 11 o'clock position as shown in the picture, and gently insert it all the way into the lens mount.
4. Push the lens in firmly and turn it clockwise until it clicks into place.

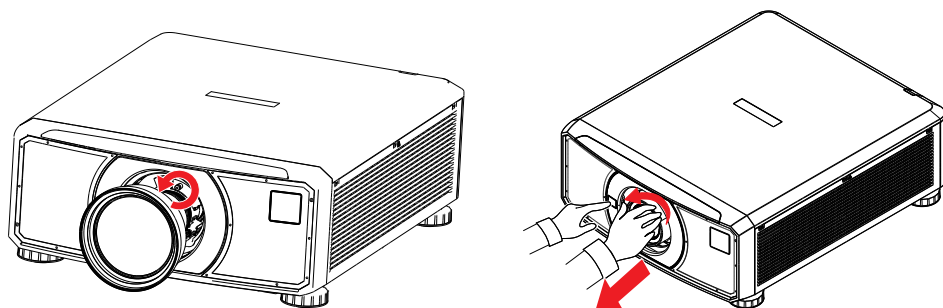


5. For 0.31 ~ 0.33:1, 0.55 ~ 0.75:1, 0.74 ~ 1.08:1, 1.05 ~ 1.41:1, 1.4 ~ 2.11:1, 2.1 ~ 4.0:1 lenses, After installing the lens, You will need to tighten the screws that attachment with the lens.



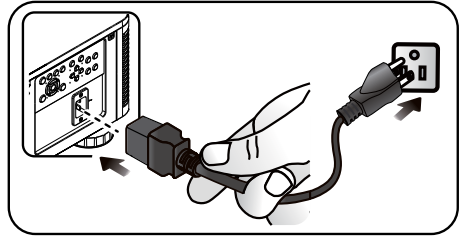
Removing the lens

1. Before disassembling the lens, please loosen the fixing screw first.
2. Push the lens release button all the way in.
3. Turn the lens anti-clockwise until it disengages.
4. Slowly remove the lens.

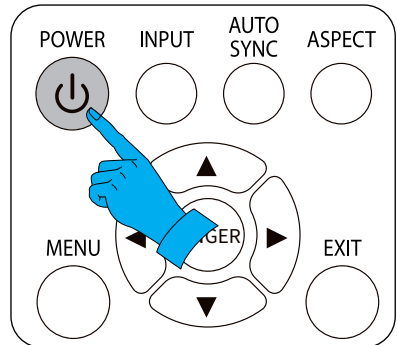
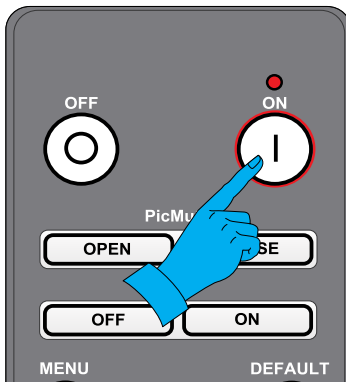


Connecting The Power Supply

1. Securely connect the power cord and signal cable. When connected, the projector's power LED will display as red or orange depending on the projector's network standby setting.



2. Turn on the light source by pressing the  button on the projector or  on the remote control.



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.

Operating the projector

Turning the projector on:

1. Connect the power cable between the mains supply and the projector. (See Connecting the power supply above.)
The **POWER** indicator turns red or orange (depending on the projectors network standby mode) to signal that the projector 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** and **LIGHT** indicator both lights solid green and the Digital Projection logo appears on the screen. The projector is switched on and projecting.

Turning the projector off

1. 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 or orange (depending on the projectors network standby mode) to indicate that the projector has entered STANDBY mode.
2. If you need to switch the projector off completely, disconnect the power cable from the projector.

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

The following test patterns are available: Off, White, Black, Red, Green, Blue, Checkerboard, Crosshatch, Color Bar, Aspect Ratio

To display a test pattern:

- Press **TEST** on the remote control.
Change the test pattern using the **LEFT** and **RIGHT** arrow buttons.
- 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.

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. If you wish to exit the test patterns before you reach the final one, press **TEST** or **EXIT** at any time.

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 adjustments 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. Selecting a test pattern.

Adjusting the image

Orientation

This can be set from the **Setup** menu.

Highlight Orientation and choose from **Front Tabletop**, **Front Ceiling**, **Rear Tabletop**, **Rear Ceiling** and **Auto-front**.

Geometry

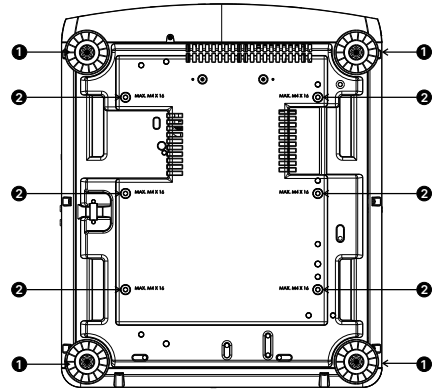
Settings such as **Keystone**, **Pincushion / Barrel** can be set from the **Geometry** menu.

Picture

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

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.
The drawing shows the positions of the mounting points:



The drawing shows the positions of the feet for table mounting, and the fixing holes for ceiling mounting.

1. Four adjustable feet ❶.
2. Six M4 holes for ceiling mount ❷.

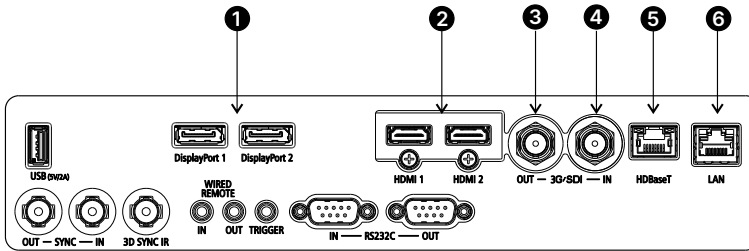
The screws should not penetrate more than 16 mm into the body of the projector.

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

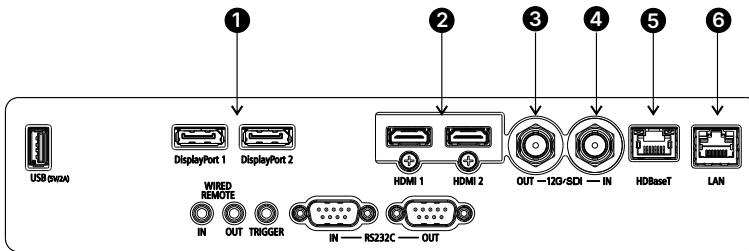
 *Ensure that there is at least 50 cm (19.7 in) of space between the ventilation outlets and any wall, and 30 cm (11.8 in) on all other sides.*

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

Connection



13500i / 16000i / 24000i



12000i / 15000i / 22000i

Digital inputs and outputs

1. DisplayPort 1 / DisplayPort 2

DisplayPort 1.2 input. Connect a DisplayPort cable to the connector.

2. HDMI 1 / HDMI 2

HDMI 2.0 inputs supporting HDCP 2.2. Connect an HDMI cable to the connector.

3. SDI OUT

SDI output supporting up to 3G-SDI / 12G-SDI. Connect an SDI cable to distribute the SDI signal to another projector.

4. SDI IN

SDI input supporting up to 3G-SDI / 12G-SDI. Connect an SDI cable to the connector.

5. HDBaseT

Receives digital signal from HDBaseT-compliant devices. Connect an HDBaseT cable.

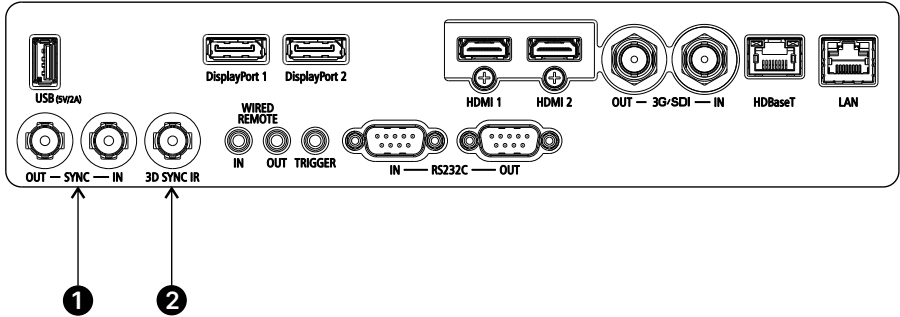
6. LAN

Provides LAN connectivity via an ethernet or Art-Net cable.



For simultaneous HDBaseT and LAN connectivity, a third-party distribution product can be utilised to combine HDBaseT video stream with LAN connection for delivery to the projector.

3D connections



1. Sync In / Sync Out

Sync In is the 3D sync input signal. Connect the 3D sync from your graphics card or server.

Sync Out is the 3D sync output signal. Enables 3D from multiple projectors.

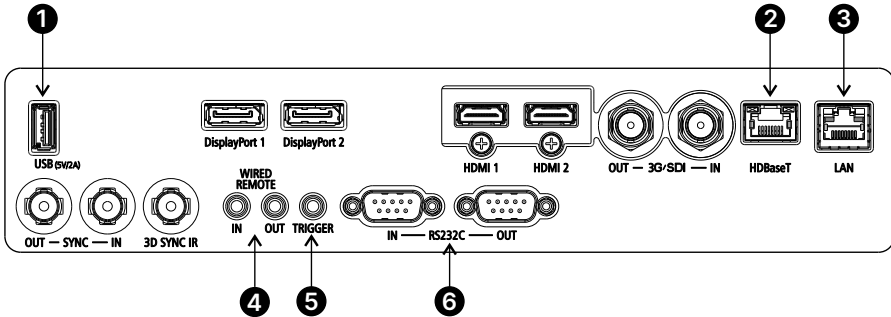
2. 3D Sync IR

Sync output signal. This is affected by settings in the 3D menu such as Dark Time and 3D Sync Offset. Connect this to an IR emitter or ZScreen.



4K+ series does not have 3D connections.

Control connections



1. USB

USB 5V / 2A output. Connect a USB cable to supply power to an external device.

2. HDBaseT

The projector's features can be controlled via a LAN connection, using Digital Projection's Projector Controller application or a terminal-emulation program.

3. LAN

• Ethernet

The projector's features can be controlled via a LAN connection. For example using Digital Projection's Projector Controller application, a terminal-emulation program or PJ-Link.

• Art-Net

Art-Net compatible RJ45 input. Connect cable from an Ethernet LAN/WLAN network to receive DMX-512 data over an IP-based network.

4. Wired Remote

The remote control can be connected using a standard 3.5 mm mini jack cable (tip-ring-sleeve, or TRS).

5. Trigger

The Trigger outputs are defined in the Setup menu. Each output can be triggered by one of the following conditions:

- Screen trigger. A trigger output can be used to control an electrically operated screen. The screen will be automatically deployed when the projector starts up and retracted when the projector shuts down.
- Aspect ratio trigger. A trigger output can be used to control screen shuttering for different aspect ratios.
- RS232 trigger. A trigger output can be used to control the screen or screen shuttering on receipt of an RS232 command.

6. RS232

All of the projector's features can be controlled via a serial connection, using commands described in the Protocol Guide.

Use a straight-through cable to connect directly to a computer.

Control panel

1. POWER

Switches the projector on and off.

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. Also used to self-calibrate the lens Shift, Zoom and Focus ranges of a motorised lens after lens installation.

6. PIC MUTE

Shows and hides the projected image. When OFF, the light source is completely switched off and the screen is black.

7. MENU

Displays and exits the OSD.

8. Arrow buttons & ENTER

Navigation buttons used to highlight menu entries in the OSD. Press ENTER to open or execute the highlighted menu entry.

9. EXIT

Exits the current OSD page and enters the level above.

10. LENS SHIFT arrow buttons

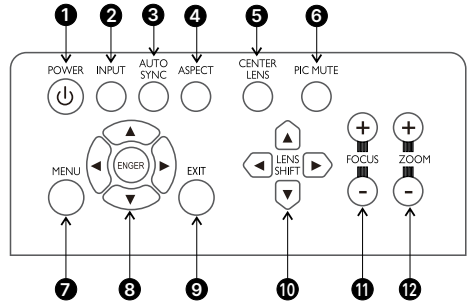
Arrow buttons moves the lens in the specified direction.

11. FOCUS plus and minus buttons

Used to move the focus in and out.

12. ZOOM plus and minus buttons

Used to zoom in and out.



Remote Control

1. Power ON / OFF

Turns power on and off.

2. Pic Mute OPEN / CLOSE

Shows and hides the projected image.

There are two PIC Mute settings:

- **Laser.** When off, the laser is switched off and no image is projected.
- **DMD Blanking.** When off, the laser remains on and a black image is projected.

3. OSD ON / OFF

Enable and disable screen timeout messages and control whether to show the OSD during projection.

4. MENU

Access the OSD. If the OSD is open, press this button to go back to the previous menu.

5. 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

Go up one level in the OSD. When the top level is reached, press to close the OSD.

7. FREEZE

Freeze the current frame.

8. DEFAULT

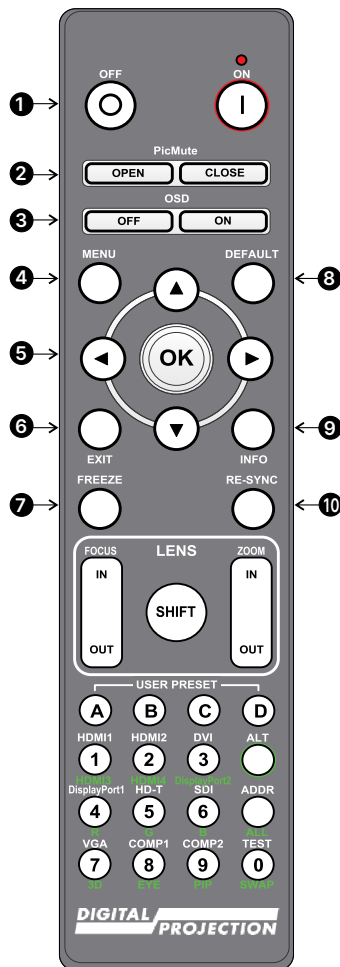
When editing a parameter, press this button to restore the default value.

9. INFO

Access information about the projector.

10. RE-SYNC

Re-synchronise with the current input signal.



11. 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.

12. USER PRESET A, B, C, D

Load user presets.

13. ALT

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

14. DVI / DisplayPort2 / numeric input 3

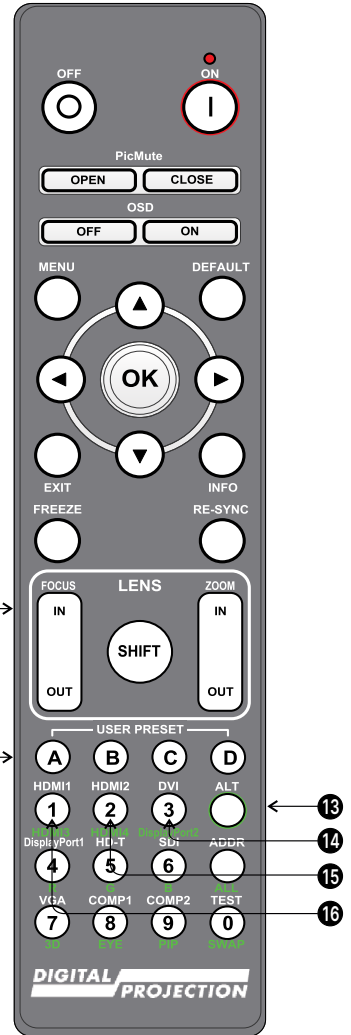
There is no DVI input on this projector.
Use with **ALT** to select the DisplayPort 2 input.

15. HDMI 2 / HDMI 4 / numeric input 2

Select the HDMI 2 input.
Use with **ALT** to select the HDMI 4 input. There is no HDMI 4 input on this projector.

16. HDMI 1 / HDMI 3 / numeric input 1

Select the HDMI 1 input.
Use with **ALT** to select the HDMI 3 input. There is no HDMI 3 input on this projector.



17. DISPLAYPORT 1 / R / numeric input 4

Select DisplayPort 1 input.

18. HD-T / G / numeric input 5

Select the HDBaseT input.

19. VGA / 3D / numeric input 7

There is no VGA input on this projector.

Use with **ALT** to toggle the 3D Format setting between Off and Auto.

4K+ series does not have 3D connections

20. 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.

21. ADDR / ALL (with red indicator at the top)

Assign and unassign an IR remote address.

- To assign an IR remote address:**

1. Press and hold this button until the red indicator starts flashing.
2. Release this button and while the red 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:**

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

22. SDI / B / numeric input 6

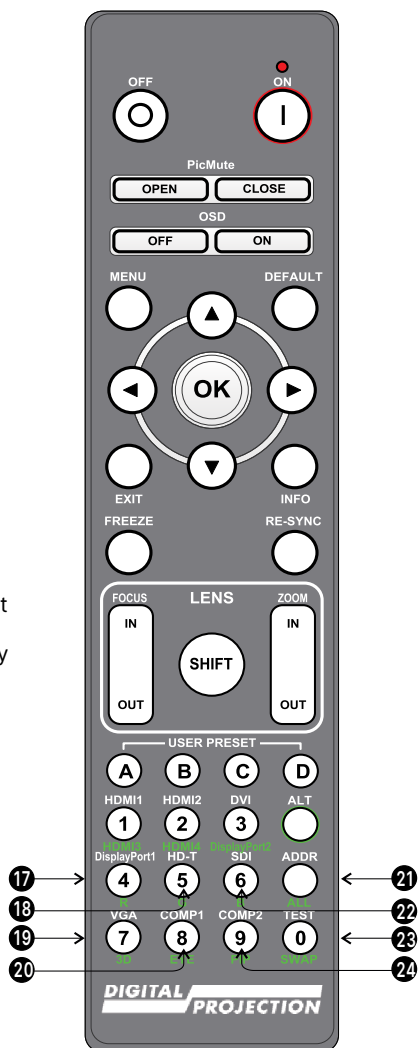
Select the SDI input.

23. TEST / SWAP / numeric input 0

Show a test pattern. Press again to show the next test pattern: Off, White, Black, Red, Green, Blue, Checkerboard, CrossHatch, ColorBar, Aspect Ratio.

24. COMP2 / PIP / numeric input 9

There is no Component 2 input on this projector.



Supported Timing

2D formats

Signal Format	Resolution	H Freq. (KHz)	Frame Rate (Hz)	PCLK (MHz)	DisplayPort	HDMI / HDBaseT			
						RGB	YUV 8-bit	YUV 10-bit	YUV 12-bit
PC	640×480	31.469	59.94	25.175	○	○			
	640×480	37.500	74.99	31.5	○	○			
	640×480	43.269	85	36	○	○			
	800×600	37.879	60.32	40	○	○			
	800×600	46.875	75	49.5	○	○			
	800×600	53.674	85.06	56.25	○	○			
	848×480	23.674	47.95	25		○			
	848×480	31.020	60	33.75	○	○			
	1024×768	48.363	60	65	○	○			
	1024×768	56.476	70.07	75	○	○			
	1024×768	60.023	75	78.75	○	○			
	1024×768	68.677	85	94.5	○	○			
	1152×864	67.500	75	108	○	○			
	1280×720	35.531	47.95	57.987	○	○			
	1280×768	47.776	60	79.5	○	○			
	1280×768	60.289	74.89	102.25	○	○			
	1280×768	68.633	84.84	117.5	○	○			
	1280×800	49.702	60	83.5	○	○			
	1280×800	62.795	74.93	106.5	○	○			
	1280×960	60.000	60	108	○	○			
	1280×960	85.938	85	148.5	○	○			
	1280×1024	63.981	60.02	108	○	○			
	1280×1024	79.976	75.02	135	○	○			
	1280×1024	91.146	85.02	157.5	○	○			
	1366×768	47.712	60	85.5	○	○			
	1440×900	55.935	59.89	106.5	○	○			
	1440×900	70.635	74.98	136.75	○	○			
	1400×1050	65.317	60	121.75	○	○			
	1400×1050	82.278	74.87	156	○	○			
	1600×900	55.920	60	119	○	○			
	1600×1200	75.000	60	162	○	○			
	1680×1050	65.290	60	146.25	○	○			
	1920×1080	53.225	47.95	135.403	○	○			
	1920×1200 RB	58.894	47.96	122.5	○	○			
	1920×1200	61.816	50	158.25	○	○			
	1920×1200 RB	74.038	60	154	○	○			
	2048×1152 RB	72.000	60	162	○				
	2560×1600 RB	98.713	59.97	268.5	○				

Signal Format	Resolution	H Freq. (KHz)	Frame Rate (Hz)	PCLK (MHz)	DisplayPort	HDMI / HDBaseT			
						RGB	YUV 8-bit	YUV 10-bit	YUV 12-bit
Apple Mac	640×480	35.000	66.67	30.24	○	○			
	832×624	49.720	74.55	57.28	○	○			
	1024×768	60.241	74.93	80	○	○			
	1152×870	68.861	75.06	100	○	○			
EDTV	480p	31.469	59.94	27	○	○	○	○	○
	576p	31.250	50	27	○	○	○	○	○
HDTV	1080i	28.125	50	74.25	○	○	○	○	○
	1080i	33.716	59.94	74.176	○	○	○	○	○
	1080i	33.750	60	74.25	○	○	○	○	○
	720p	37.500	50	74.25	○	○	○	○	○
	720p	44.955	59.94	74.176	○	○	○	○	○
HDTV	720p	45.000	60	74.25	○	○	○	○	○
	1080p	26.973	23.98	74.176	○	○	○	○	○
	1080p	27.000	24	74.25	○	○	○	○	○
	1080p	28.125	25	74.25	○	○	○	○	○
	1080p	33.716	29.97	74.176	○	○	○	○	○
	1080p	33.750	30	74.25	○	○	○	○	○
	1080p	56.250	50	148.5	○	○	○	○	○
	1080p	67.433	59.94	148.352	○	○	○	○	○
	1080p	67.500	60	148.5	○	○	○	○	○
	3840×2160	53.946	23.97	296.703	○	○	○	○	○
	3840×2160	54.000	24	297	○	○	○	○	○
	3840×2160	56.250	25	297	○	○	○	○	○
	3840×2160	67.500	29.97	296.703	○	○	○	○	○
	3840×2160	67.500	30	297	○	○	○	○	○
	3840×2160	112.500	50	594	○	○	○	○*	○*
	3840×2160	135.000	60	594	○	○	○	○*	○*
	4096×2160**	54.000	24	297	○	○	○	○	○
	4096×2160**	56.250	25	297	○	○	○	○	○
	4096×2160**	67.500	30	297	○	○	○	○	○
	4096×2160**	112.500	50	594	○	○	○	○*	○*
	4096×2160**	135.000	60	594	○	○	○	○*	○*



“ * ”: color mode is YUV422 or YUV420.

“**” Not available in HDBaseT format.

3D formats

Standard		Resolution	V-Freq (Hz)	V- Total	H-Freq (kHz)	HDMI	Display Port	Dual- Pipe HDMI 1/2	Dual- Pipe Display Port 1/2	Output Display Frame Rate
720p50	Frame Packing	1280×720	50	1470	37.5	○				100
720p59	Frame Packing	1280×720	59.94	1470	44.96	○				120
720p60	Frame Packing	1280×720	60	1470	45	○				120
720p50	Top-and-Bottom	1280×720	50	750	37.5	○	○			100
720p59	Top-and-Bottom	1280×720	59.94	750	44.96	○	○			120
720p60	Top-and-Bottom	1280×720	60	750	45	○	○			120
1080p23	Frame Packing	1920×1080	23.98	2205	26.97	○				144
1080p24	Frame Packing	1920×1080	24	2205	27	○				144
1080i50	Side-by-Side (Half)	1920×1080	50	1125	56.25	○	○			100
1080i59	Side-by-Side (Half)	1920×1080	59.94	1125	67.43	○	○			120
1080i60	Side-by-Side (Half)	1920×1080	60	1125	67.5	○	○			120
1080p50	Side-by-Side (Half)	1920×1080	50	1125	56.25	○	○			100
1080p59	Side-by-Side (Half)	1920×1080	59.94	1125	67.43	○	○			120
1080p60	Side-by-Side (Half)	1920×1080	60	1125	67.5	○	○			120
1080p50	Top-and-Bottom	1920×1080	50	1125	56.25	○	○			100
1080p59	Top-and-Bottom	1920×1080	59.94	1125	67.43	○	○			120
1080p60	Top-and-Bottom	1920×1080	60	1125	67.5	○	○			100
1080p50	Frame Sequential	1920×1080	50	1125	56.25	○	○			100
1080p59	Frame Sequential	1920×1080	59.94	1125	67.43	○	○			120
1080p60	Frame Sequential	1920×1080	60	1125	67.5	○	○			120
WUXGA_100_RB	Frame Sequential	1920×1200	100	1258	125.72	○	○			100
WUXGA_120_RB	Frame Sequential	1920×1200	120	1271	152.4	○	○			120
1080p50	Dual Pipe	1920×1080	50	1125	56.25			○	○	100
1080p59	Dual Pipe	1920×1080	59.94	1125	67.43			○	○	120
1080p60	Dual Pipe	1920×1080	60	1125	67.5			○	○	120
WUXGA_60_RB	Dual Pipe	1920×1200	60	1235	74.04			○	○	120

 4K+ series does not support 3D timings

SDI (SDI Format)

Timing	SDI Link mode	Signal Standards	Color Encode	Sampling Structure	Bit Depth
1080i59	HD	SMPTE 292M 1.5Gbps HD	YCbCr	4:2:2	10
1080i60	HD	SMPTE 292M 1.5Gbps HD	YCbCr	4:2:2	10
1080P30	HD	SMPTE 292M 1.5Gbps HD	YCbCr	4:2:2	10
1080P25	HD	SMPTE 292M 1.5Gbps HD	YCbCr	4:2:2	10
1080i50	HD	SMPTE 292M 1.5Gbps HD	YCbCr	4:2:2	10
1080P24	HD	SMPTE 292M 1.5Gbps HD	YCbCr	4:2:2	10
720P60	HD	SMPTE 292M 1.5Gbps HD	YCbCr	4:2:2	10
720P50	HD	SMPTE 292M 1.5Gbps HD	YCbCr	4:2:2	10
1080Sf25	HD	SMPTE 292M 1.5Gbps HD	YCbCr	4:2:2	10
1080Sf30	HD	SMPTE 292M 1.5Gbps HD	YCbCr	4:2:2	10
1080P50	3G Level A	SMPTE 424M 3Gbps	YCbCr	4:2:2	10
1080P59	3G Level A	SMPTE 424M 3Gbps	YCbCr	4:2:2	10
1080P60	3G Level A	SMPTE 424M 3Gbps	YCbCr	4:2:2	10
2160p24 (3840×2160)	6G (Single Link)	SMPTE 2081 6Gbps	YCbCr	4:2:2 / 4:2:0	10
2160p25 (3840×2160)	6G (Single Link)	SMPTE 2081 6Gbps	YCbCr	4:2:2 / 4:2:0	10
2160p30 (3840×2160)	6G (Single Link)	SMPTE 2081 6Gbps	YCbCr	4:2:2 / 4:2:0	10
2160p24 (4096×2160)	6G (Single Link)	SMPTE 2081 6Gbps	YCbCr	4:2:2	10
2160p25 (4096×2160)	6G (Single Link)	SMPTE 2081 6Gbps	YCbCr	4:2:2	10
2160p30 (4096×2160)	6G (Single Link)	SMPTE 2081 6Gbps	YCbCr	4:2:2	10
2160p24 (3840×2160)	12G (Single Link - 2SI)	SMPTE 2082 12Gbps	YCbCr	4:2:2 / 4:4:4	10/12
2160p25 (3840×2160)	12G (Single Link - 2SI)	SMPTE 2082 12Gbps	YCbCr	4:2:2 / 4:4:4	10/12
2160p30 (3840×2160)	12G (Single Link - 2SI)	SMPTE 2082 12Gbps	YCbCr	4:2:2 / 4:4:4	10/12
2160p24 (4096×2160)	12G (Single Link - 2SI)	SMPTE 2082 12Gbps	YCbCr	4:2:2 / 4:4:4	10/12
2160p25 (4096×2160)	12G (Single Link - 2SI)	SMPTE 2082 12Gbps	YCbCr	4:2:2 / 4:4:4	10/12
2160p30 (4096×2160)	12G (Single Link - 2SI)	SMPTE 2082 12Gbps	YCbCr	4:2:2 / 4:4:4	10/12
2160p50 (3840×2160)	12G (Single Link - 2SI)	SMPTE 2082 12Gbps	YCbCr	4:2:2	10
2160p60 (3840×2160)	12G (Single Link - 2SI)	SMPTE 2082 12Gbps	YCbCr	4:2:2	10
2160p50 (4096×2160)	12G (Single Link - 2SI)	SMPTE 2082 12Gbps	YCbCr	4:2:2	10
2160p60 (4096×2160)	12G (Single Link - 2SI)	SMPTE 2082 12Gbps	YCbCr	4:2:2	10

RoHS Card

限用物質含有情況標示聲明書

Declaration of the Presence Condition of the Restricted Substances Marking

設備名稱： Equipment name	DLP PROJECTPR/ 數位投影機			型號（型式）： Type designation (Type)	13500i WU/16000i WU/24000i WU 12000i 4K+/15000i 4K+/22000i 4K+	
單元U nit	限用物質及其化學符號 Restricted substances and its chemical symbols					
	鉛 Lead (Pb)	汞 Mercury (Hg)	鎘 Cadmium (Cd)	六價鉻 Hexavalent chromium (Cr ⁶⁺)	多溴聯苯 Polybrominated biphenyls (PBB)	多溴二苯醚 Polybrominated diphenyl ethers (PBDE)
光機引擎	○	○	○	○	○	○
光源模組	○	○	○	○	○	○
外殼	○	○	○	○	○	○
金屬合金結構件	—	○	○	○	○	○
風扇	—	○	○	○	○	○
電路板	—	○	○	○	○	○
線材	○	○	○	○	○	○
電源線	—	○	○	○	○	○
遙控器	—	○	○	○	○	○
備考 1. “○” 係指該項限用物質之百分比含量未超出百分比含量基準值。 Note 1 : “○” indicates that the percentage content of the restricted substance does not exceed the percentage of reference value of presence. 備考 2. “—” 係指該項限用物質為排除項目。 Note 2 : The “—” indicates that the restricted substance corresponds to the exemption.						

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China RoHS for DLP PROJECTOR/数位投影机						
部件名称	有害物质					
	铅(Pb)	汞(Hg)	镉(Cd)	六价铬 (Cr(VI))	多溴联苯 (PBB)	多溴二苯醚 (PBDE)
光机引擎	○	○	○	○	○	○
光源模组	○	○	○	○	○	○
外壳	○	○	○	○	○	○
金属合金结构件	X	○	○	○	○	○
风扇	X	○	○	○	○	○
电路板	X	○	○	○	○	○
线材	○	○	○	○	○	○
电源线	X	○	○	○	○	○
遥控器	X	○	○	○	○	○
本表格依据 SJ / IT 11364 的细定编制。 ○：表示该有害物质在该部件所有均质材料中的含量均在 GB/ T 26572 规定的限量要求以下。 X：表示该有害物质至少在该部件的某一均质材料中的含量超出 GB/ T 26572 规定的限量要求。 备注：本产品符合欧盟 RoHS 指令（电子电气产品中限制使用某些有害物质的指令），表中标示 " X " 的部件含有欧盟 RoHS 排除项目的物质（当前不存在适合之替代品的物质）						

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