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Elumenati OmniFocus 300 Series

Installation and Operation Guide

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This document applies to the OmniFocus 30300 and 30310 specifically but applies to all 300 Series solutions. Appendices detail the other products in the 300 Series.



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Overview

Introduction

This guide covers the installation and operation of the OmniFocus 30200 projection system, as well as an overview of operation. Please read through this entire guide before following the instructions. This will familiarize you with the process of setup for the system.

Equipment List

1. Panasonic PT-RZ570 projector with Elumenati lens mount attached and aligned
2. OmniFocus 300 Series lens (straight or folded version)
3. Video and power cables, remote w/ batteries, this manual and the projector manufacturer's manual.

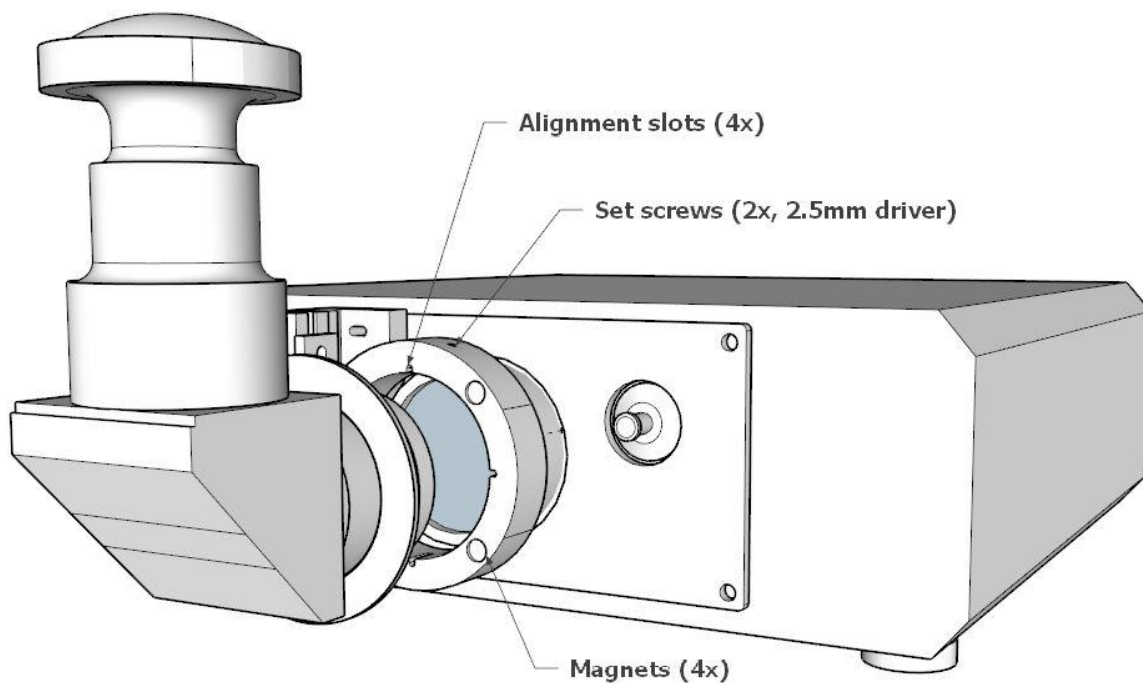


Setup

The 200 Series is shipped with the adjustable lens mount already installed and aligned to the default setting (truncated or full dome). The lens is removed from the mount and housed separately inside the case. The following describes the setup procedure.

Lens Installation

1. If you have purchased a stand, please assemble it according to the directions located at the end of this manual. If you are not using the stand, place the projector on a flat, sturdy surface to allow mounting of the lens.
2. The lens is secured using a magnetic bayonet mount.
 - a. Remove the small lens cap on the projector side of the lens.
 - b. Insert the lens into the mount and rotate slightly until the magnets engage.
 - c. If using the folded lens (30310) ensure that the pins on the lens align with the grooves in the mount.

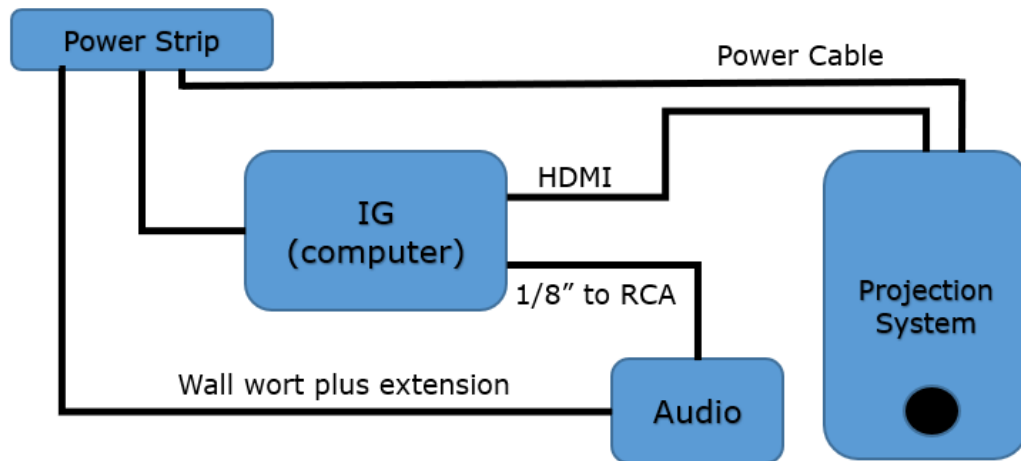


Lens slides into mount until magnets engage. Alignment pins allow four orientations but the folded lens is typically up or down. Set screws can lock the lens in position.

Projector Connection

The projector connection is no different than connecting an external monitor. Below is a typical connection diagram. Refer to the GeoDome system manual as GeoDomes have more complicated connection diagrams.

1. Connect the signal and power cables for the projector and IG
2. Power up the projector.
3. Power up the IG.
4. You may need to make minor adjustments to the focus, zoom and lens shift. These



adjustments vary by projection system but for the OmniFocus 30300 these adjustments are completely manual. Refer to the image below for adjustment.

The 30300 and 30310 are designed to use the HDMI 1 input and shown in the image below.



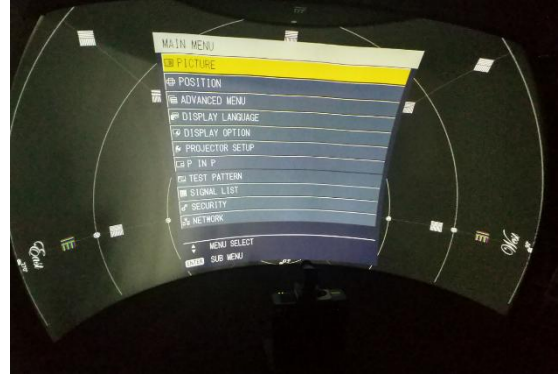
First Light

All OmniFocus systems are shipped correctly aligned for their application. As a “sanity check” please insure the following;

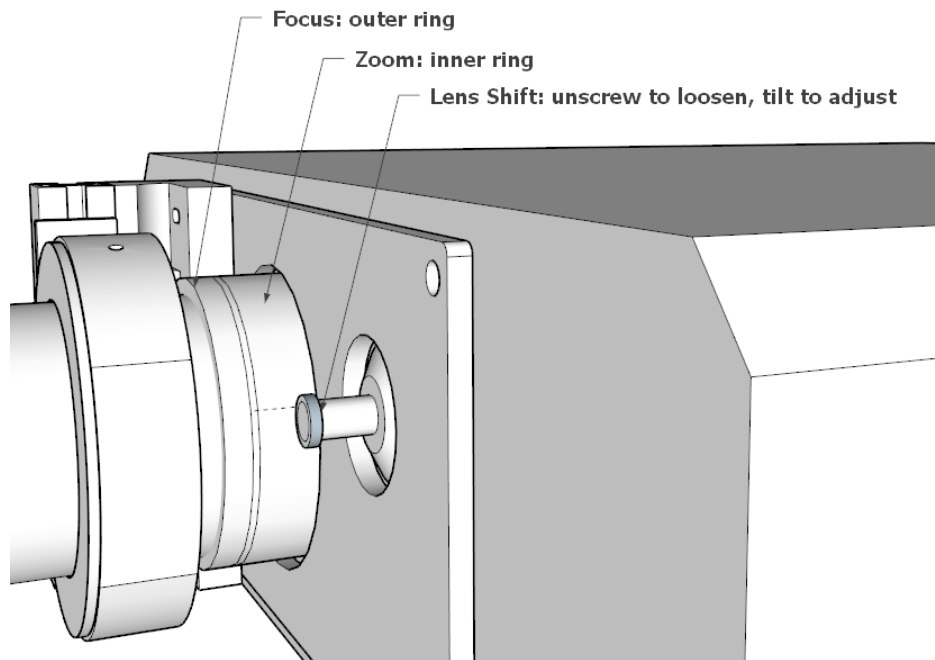
1. The projector menu is upright and legible.
2. The alignment pattern (background image) runs parallel to the edge of the dome screen.

If either of these checks fails, contact Elumenati for assistance.

The image on the right illustrates a typical panorama configuration. Notice that the menu is upright and legible and that the outer most ring is parallel to the dome edge (left and right).



During shipment the optics may have shifted slightly. It is best to adjust Focus first, then adjust Zoom if necessary. Finally you may adjust Lens Shift slightly. Refer to the controls below.



Maintenance

Always refer to the supplied manufacturer's manual for detailed operations and maintenance of the projector. For ease of use, an overview of the basic system maintenance is presented below.

Lens Care

The bright light of the projector exaggerates the amount of dust on the lens surface. A light dust has very little effect on picture quality. We recommend cleaning the lens twice annually or if there are fingerprints or similar on the lens.

Cleaning

Use the supplied cleaning cloth and fluid.

Apply the cleaning fluid directly onto the lens until lightly covered. Wipe gently until the lens is clean. To avoid scratching the lens, make sure that the tissue is always moist and do not scrub with excessive force.

The Elumenati recommend PUROSOL™ Optical Cleaner from Edmund Optics; however, any high-quality camera optics cleaning fluid will work. **Do not use acetone-based solvents.**

In an emergency, Windex™ and a soft cotton t-shirt will work, but be careful!

When the lens is clean, finish with a light-pressure, single sweep across the surface of the lens using a drier portion of the tissue.

Projector Care

The 300 Series projectors all use laser light engines which do not require regular maintenance common with lamped projectors. However, typical installation environments can be very dirty. We recommend vacuuming the dust and lint out of the projector air intake grills at least twice annually, typically while cleaning the lens.

Troubleshooting

Factory Reset

All OmniFocus systems are shipped with the optics aligned and the electronics setup correctly. Occasionally an over-zealous “AV expert” will perform a factory reset on the projector resulting in an unacceptable image upon which said expert foists a series of corrections that are exactly wrong.

If possible use the menu system to orient the image as described in the First Light section. Then contact Elumenati Support.

Product Support

Please contact us with your questions via

- email at support@elumenati.com or
- phone at 1-612.605.0826, ext 702.

Product Specifications

OMNIFOCUS PROJECTION

- Infinite depth of focus
- Optimized pixel placement
- Zoom adjustable from 180° x 112° to 155° fulldome projection

IMAGE

- 5400 ANSI lumens (model dependent)
- 90% brightness uniformity across the screen
- Contrast ratio: Not Available

DISPLAY TECHNOLOGY AND RESOLUTION

- 0.67" single DLP
- 1920 x 1200 pixels

INPUT SIGNAL COMPATIBILITY

- 1920x1200 at up to 60Hz frame rate

INPUTS, CONTROL, & NETWORKING

- DVI-D (24 pin)
- 2x HDMI (19-pin)
- Mini D-Sub 15 pin: Analog PC / Component / SCART
- Stereo mini jack: Stereo audio input
- Wireless IR remote control and built-in keypad
- Mouse Control Receiver (USB)
- RS-232C Control Terminal
- RJ45 LAN for Network
- RJ45 LAN for DigitalLink
- USB type A

DIMENSIONS (Projector)

- Weight: 19.3 kg with lens
- Size: 498 mm L x 168 mm W x 492 mm H

Light Source

- Laser diode (Laser class: Class 1) (Class 3R for North America)
- Luminance life: 20,000 hours at half luminance (Normal Mode, Temperature: 35 °C [95 °F], altitude: 700 m [2,297 ft], Dust: 0.15 mg/m3)

POWER REQUIREMENTS

- Line voltage 100-240 VAC ± 10% @ 50/60 HZ
- Power consumption: 500W / 375W / 0.5W (normal / quiet / standbyEco)

STANDARD ACCESSORIES

- Shipping case
- Line cord
- Wireless remote unit
- User manual
- Computer cable

OPTIONAL ACCESSORIES

- Projector stand
- Folded lens configuration

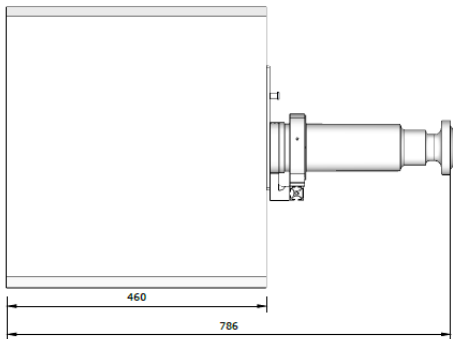

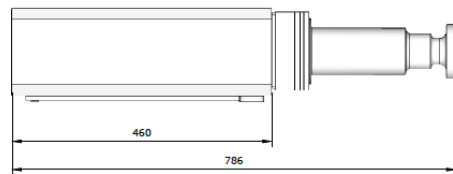
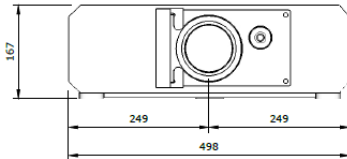
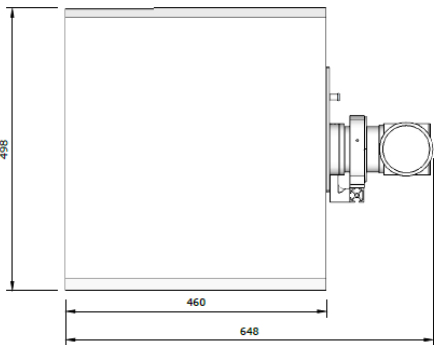
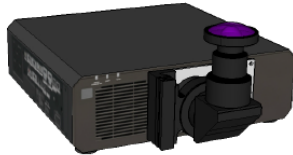
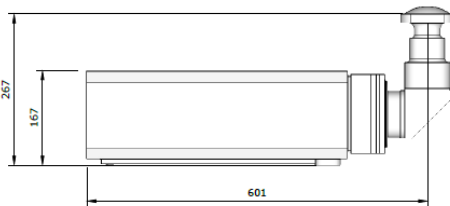
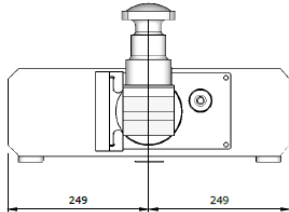
OPERATING ENVIRONMENT

- Operating temp: 0° to 45° C
- Operating humidity: 10% - 80%
- Audible noise: 33dB/28dB (normal/quiet mode)

LIMITED WARRANTY

- 3 year parts and labor

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<p>TOP</p> 	<p>Elumenati OmniFocus 30300 Projection System</p> <p>Model: 30300</p> <p>Projector: Panasonic PT-RZ575</p> <p>Resolution: 1920x1200</p> <p>Brightness: 5200 lumens (laser)</p> 
<p>FRONT</p> 	<p>RIGHT</p> 
<p>TOP</p> 	<p>Elumenati OmniFocus 30310 Projection System</p> <p>Model: 30210 w/ 4K upgrade</p> <p>Projector: Panasonic PT-RZ575B</p> <p>Resolution: 1920x1200</p> <p>Brightness: 5200 lumens (laser)</p> 
<p>FRONT</p> 	<p>RIGHT</p> 

Appendix A: 30320/330 Product Specifications

OMNIFOCUS PROJECTION

- Infinite depth of focus
- Optimized pixel placement
- Zoom adjustable from 180° x 102° to 150° fulldome projection

IMAGE

- 5000 ANSI lumens (model dependent)
- 80% brightness uniformity across the screen
- Contrast ratio: Not Available

DISPLAY TECHNOLOGY AND RESOLUTION

- 0.47" single DLP
- 3840 x 2160 pixels (1920 x 1080 native)

INPUT SIGNAL COMPATIBILITY

- 3180 x 2160 at up to 60Hz frame rate

INPUTS, CONTROL, & NETWORKING

- 2x HDMI (HDMI_2 for 60 Hz))
- Mini D-Sub 15 pin: Analog PC / Component / SCART
- Stereo mini jack: Stereo audio input
- Wireless IR remote control and built-in keypad
- RS-232C Control Terminal
- 2x RJ45 LAN for Network and DigitalLink
- USB type A and type B

DIMENSIONS (Projector)

- Weight: 9.3 kg
- Size: 450mm L x 154 mm W x 379 mm H

Light Source

- Laser Phosphorus
- Luminance life: 20,000 hours at half luminance

POWER REQUIREMENTS

- Line voltage 100-240 VAC \pm 10% @ 50/60 HZ
- Power consumption: 550W / 400W (normal /eco)

STANDARD ACCESSORIES

- Shipping case
- Line cord
- Wireless remote unit
- User manual
- Computer cable

OPTIONAL ACCESSORIES

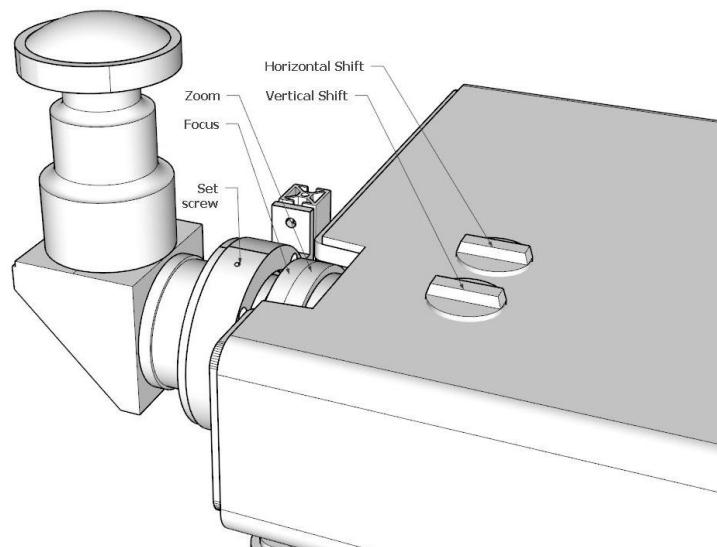
- Projector stand
- Folded lens configuration

OPERATING ENVIRONMENT

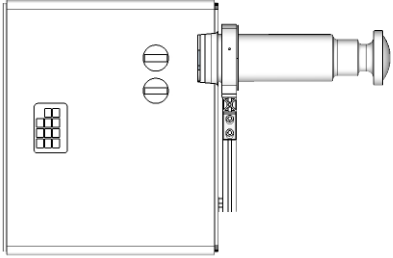

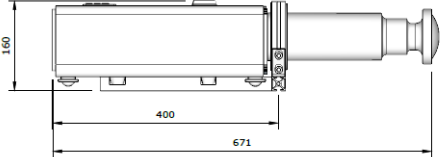
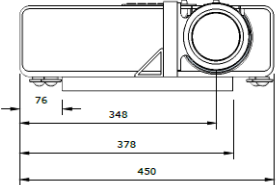
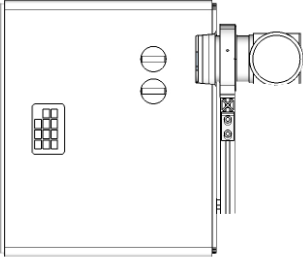

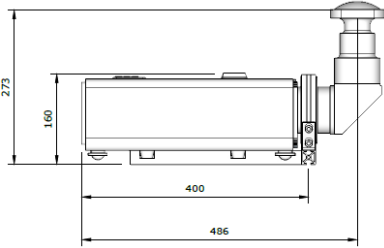
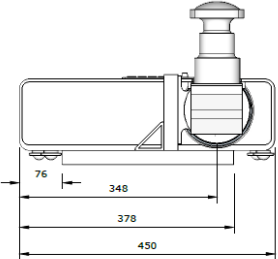
- Operating temp: 0° to 40° C
- Operating humidity: 10% - 80%
- Audible noise: 39dB/37dB (normal/quiet mode)

LIMITED WARRANTY

- 3 year parts and labor



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<p>TOP</p> 	<p>Elumenati OmniFocus 30320 Projection System</p> <p>Model: 30320</p> <p>Projector: Canon LX-MH502Z</p> <p>Resolution: 3840x2160 (1920x1200 native)</p> <p>Brightness: 5000 lumens (laser)</p> 
<p>FRONT</p> 	<p>RIGHT</p> 
<p>TOP</p> 	<p>Elumenati OmniFocus 30330 Projection System</p> <p>Model: 30330</p> <p>Projector: Canon LX-MH502Z</p> <p>Resolution: 3840x2160 (1920x1200 native)</p> <p>Brightness: 5000 lumens (laser)</p> 
<p>FRONT</p> 	<p>RIGHT</p> 

Appendix B: 30340/350 Product Specifications

OMNIFOCUS PROJECTION

- Infinite depth of focus
- Optimized pixel placement
- Zoom adjustable from 180° x 102° to 150° fulldome projection

IMAGE

- 7000 ANSI lumens (model dependent)
- 95% brightness uniformity across the screen
- Contrast ratio: 1200:1

DISPLAY TECHNOLOGY AND RESOLUTION

- 0.67" single DLP
- 3840 x 2400 pixels (2560 x 1600 native)

INPUT SIGNAL COMPATIBILITY

- 3840 x 2400 at up to 60Hz frame rate
- 2560 x 1600 at 120Hz stereo

INPUTS, CONTROL, & NETWORKING

- HDMI 2.0
- 2x DP 1.2
- 2x Dual-link DVI
- 12G-SDI
- HDBasetT
- Stereo mini jack: Stereo audio input
- Wireless IR remote control and built-in keypad
- RS-232C Control Terminal
- RJ45 LAN for Network

DIMENSIONS (Projector)

- Weight: 25.5 kg
- Size: 480mm L x 680 mm W x 227 mm H

Light Source

- Laser Phosphorus
- Luminance life: 40,000 hours at half luminance

POWER REQUIREMENTS

- Line voltage 100-240 VAC \pm 10% @ 50/60 HZ
- Power consumption: 850W / 700W (max/normal)

STANDARD ACCESSORIES

- Shipping case
- Line cord
- Wireless remote unit
- User manual
- Computer cable

OPTIONAL ACCESSORIES

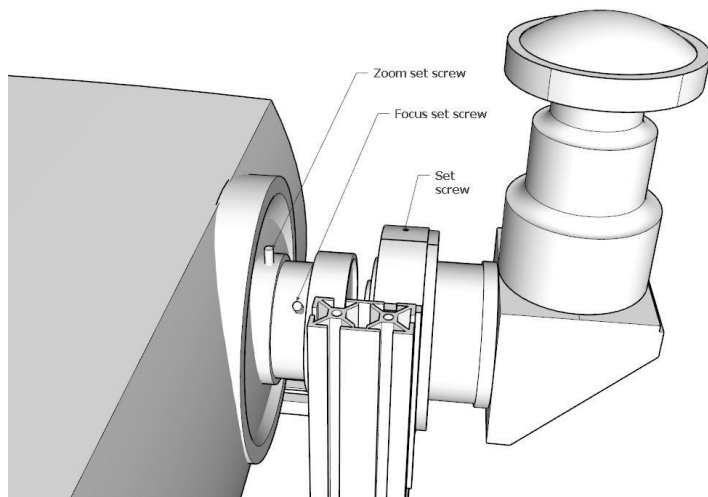
- Projector stand
- Folded lens configuration

OPERATING ENVIRONMENT

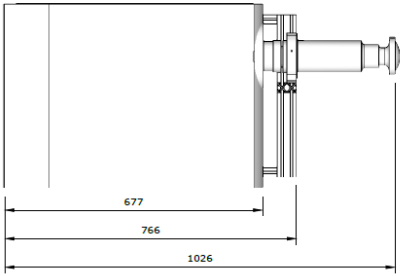


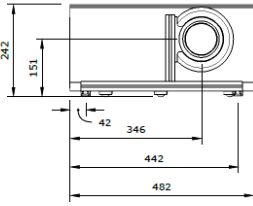
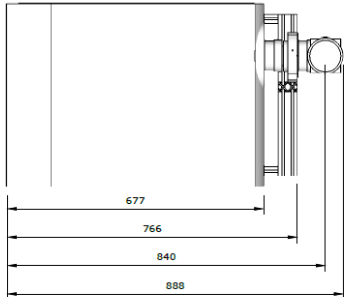

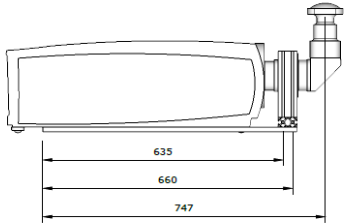
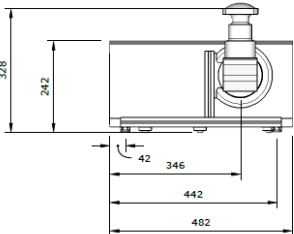
- Operating temp: 10° to 40° C
- Operating humidity: 10% - 80%
- Audible noise: 35dB

LIMITED WARRANTY

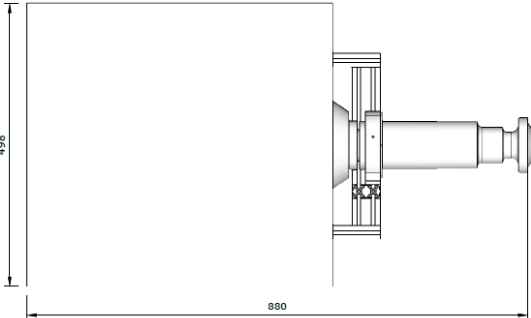

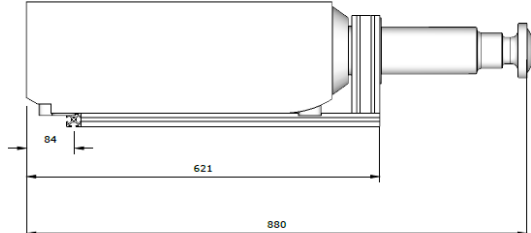
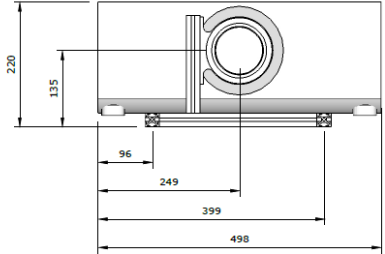
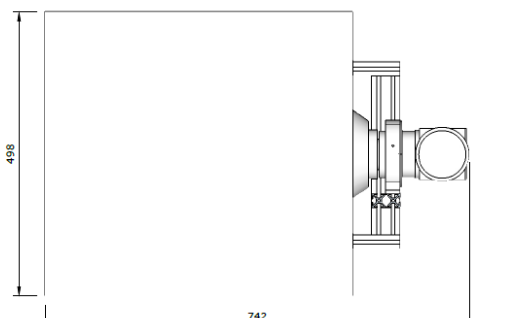

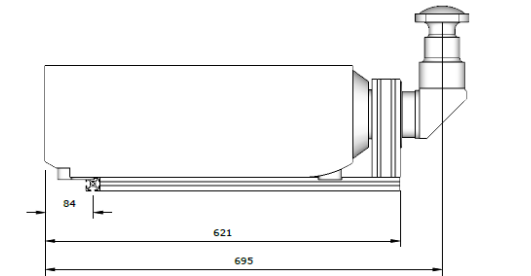
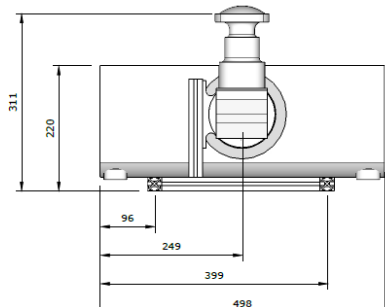
- 3 year parts and labor



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<p>TOP</p> 	<p>Elumenati OmniFocus 30340 Projection System</p> <p>Model: 30340</p> <p>Projector: Barco F80 4K7</p> <p>Resolution: 3840x2400 (2716x1600 native)</p> <p>Brightness: 7000 lumens (laser) 9000 and 12000 lumens upgrades</p> 
<p>FRONT</p> 	<p>RIGHT</p> 
<p>TOP</p> 	<p>Elumenati OmniFocus 30350 Projection System</p> <p>Model: 30350</p> <p>Projector: Barco F80 4K7</p> <p>Resolution: 3840x2400 (2716x1600 native)</p> <p>Brightness: 7000 lumens (laser) 9000 and 12000 lumens upgrades</p> 
<p>FRONT</p> 	<p>RIGHT</p> 

Appendix C: 30360/370

<p>TOP</p> 	<p>Elumenati OmniFocus 30360 Projection System</p> <p>Model: 30360</p> <p>Projector: Panasonic PT-RCQ80B</p> <p>Resolution: 3840x2160 (1920x1200 native)</p> <p>Brightness: 8000 lumens (laser) 10000 lumen upgrade</p> 
<p>FRONT</p> 	<p>RIGHT</p> 
<p>TOP</p> 	<p>Elumenati OmniFocus 30370 Projection System</p> <p>Model: 30370</p> <p>Projector: Panasonic PT-RCQ80B</p> <p>Resolution: 3840x2160 (1920x1200 native)</p> <p>Brightness: 8000 lumens (laser) 10000 lumen upgrade</p> 
<p>FRONT</p> 	<p>RIGHT</p> 

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Elumenati Standard Warranty

The Elumenati provides a limited warranty on all of its products. The term of the warranty is three (3) years for all OmniFocus projection systems, one (1) year for all other components. Details of the warranty are presented below.

Who is covered?

This warranty is granted to end users operating an Elumenati product for their own use and not for the purposes of a commercial resale.

What is covered / For how long?

Elumenati warrants that its products, when delivered in new condition, in original packaging, sold directly or through an Elumenati authorized partner and used in normal conditions, is free from any defects in manufacturing, materials and workmanship.

The warranty shall apply only to the extent that the products or any parts thereof have been installed and serviced by skilled personnel certified by Elumenati.

The Warranty shall only apply if the mandatory preventive maintenance actions as described in the technical documentation have been executed.

Warranty starts on the shipment date of products or the date of delivery of the software activation key, as relevant. If Elumenati is responsible for onsite acceptance (OSAT), warranty starts upon sign off of OSAT or when product is taken into use, whatever starts first.

The warranty period and warranty entitlements are stated in the warranty rider below.

For software, repairs and purchased spare parts 3 months warranty apply, unless specified otherwise in the warranty rider below.

Any third party product or any part thereof which Elumenati merely resells with its products or services is subject to the original manufacturer's warranty unless specified otherwise in the warranty rider.

What is not covered?

The warranty does not apply to consumables (lamps, liquids, filters, reflectors, fans, pumps, batteries, harddisks, etc...) unless explicitly stated otherwise. This warranty does not cover defects resulting from improper or unreasonable use or maintenance, failure to follow operating instructions as mentioned in the technical documentation.

This warranty does not cover defects resulting from accident, unauthorized alteration or modification of the original condition, or product being connected to or used in combination with other equipment, products or systems (hardware and/or software) not compatible with the product or not respecting the installation requirements as defined in the installation manual or user manual (such as high temperatures, humidity, dust, power surges or incorrect voltage supply...).

The warranty does not cover cosmetic damages (scratches, dents, cracks, ...), which have not been claimed within 8 days of the delivery of the goods.

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In no event shall Elumenati be liable for any defects, failures, loss of or damage caused by or resulting from wear and tear, any external cause or event out of Elumenati's control, use or operation of the product prior to acceptance, any act or negligence of customer or any third party, or any phenomena inherent to the technology used such as image retention, burn-in, vibrations, etc...

The warranty is void if serial numbers, warning labels or original seals are removed, changed or tampered with.

What we will do:

During the warranty period, Elumenati will, at its sole discretion, repair (at Elumenati's own or at an Elumenati certified service center), or replace (using new or refurbished replacement parts) any defect within a reasonable period of time and free of charge. The replaced product, parts and/or components shall become the property of Elumenati and shall, at our request, be returned to Elumenati, otherwise invoiced.

Upon request of the customer, Elumenati can send a service engineer onsite to repair the product. The travel time and the travel and living expenses of the service engineer shall be payable by the customer in accordance with Elumenati's then applicable rates and procedures.

What we will not do:

Pay shipping, insurance or transportation charges from you to us (Elumenati's own or an Elumenati certified service center), or pay any import fees, duties and taxes.

What you must do to obtain the Standard warranty service:

Return the product or part using the following procedures:

- Contact Elumenati support (email: support@elumenati.com) for specific return and shipping information.
- Label and ship the product to the address provided by Elumenati. You shall pack the products correctly in the original packaging so as to protect them from transport damage.
- Place the necessary return material authorization number (RMA number) prominently on the outside of the box. Shipments not bearing an RMA number will be refused.

Please ensure that a backup of any customized data or configurations is made prior to returning the product for repair/replacement. During the repair or replacement process products are reset to their factory configurations and all customized data and configurations will be lost.

Other conditions:

The remedies specified in this warranty document shall constitute customer's sole and exclusive remedy and Elumenati's sole and exclusive liability for Elumenati's breach of the warranty hereunder.