

# Product Manual

omiVista Install V2 July 2023



**omiVista**  
*install*

Thank you for purchasing this OM Interactive LTD product.

Before operating this product, please read these instructions carefully and save this manual for future use.

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# Package Contents

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Security strap.....	1
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Wireless Keyboard



Remote Control



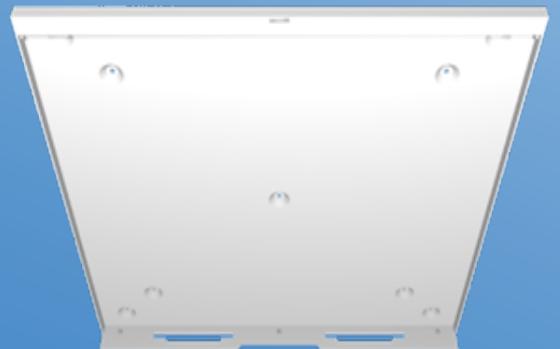
omiVista Main Unit



M4 Nylock Nuts



IEC Power Connection



Ceiling Mount Plate



Safety Straps



M4 Screws



Security Screws



Security Strap

## Unboxing

Please use caution when removing the system from its packaging, not to lay the unit face down on flat surfaces. Use the packing pieces in the box to support the unit prior to installation.



### Pre-requisites (please read prior to installation)

The **omiVista Install** system can be installed onto a flat solid ceiling or into a ceiling grid comprising of 600 x 600mm ceiling tiles. You will need to have in place a suitable 100-240v power socket, on or in the ceiling void within 2M of the units proposed location, in order to connect power to the unit. We recommend the following ceiling heights:

- Minimum ceiling height recommendation is 2.2m.
- Maximum ceiling height recommendation is 3.2m.
  - ◇ Table image size from 1.1m – 1.6m wide
  - ◇ Floor image size from 1.7m – 2.5m wide

The power socket must not be isolated by a wall mounted switch to avoid accidental power off while the unit is in operation, as this will shorten the projector life and risk damage to the units components



The output warm air from the projector must not be directed towards heat sensors/smoke detectors etc.

This system is for floor or table projection only and will not work projecting on to a wall or ceiling

**USB Connection:** It may be necessary to provide a USB extension cable in the event that the USB port on the side of the unit is not easily accessible to the client, for the purposes of updating content, particularly in the case where the **omiVista Install +** unit has been ordered. This will be needed where the unit is installed into a suspended ceiling. We suggest that this is routed down the nearest wall to a USB socket.

## Flooring

If you do not have a light-coloured hard floor to project onto you will require one of the following:

For a carpeted or hard floor area a roll-out piece of white vinyl that you can roll out when needed to enhance the projected effect, and the system sensitivity although **be mindful with this method that you do not create a trip hazard with the vinyl.**

### **Carpeted area:**

For a carpeted area a white vinyl cut to the size of the projection which can be integrated or cut into the carpet which will then need to be retained using pressure sensitive adhesive to keep in in place. This will need to be done by your local carpet or flooring contractor.

### **Hard Floor area:**

For a hard floored, vinyl or laminated floor area you will need a piece of self-adhesive white flooring which can be supplied and installed by OMi or one of our authorised resellers.

## Warnings

**WARNING:** To Prevent damage which may result in fire or shock hazard, do not expose this unit to rain or moisture.

### IMPORTANT: THE MOULDED PLUG (UK ONLY)

FOR YOUR SAFETY, PLEASE READ THE FOLLOWING CAREFULLY

This appliance is supplied with a moulded three pin plug for your safety and convenience. A 13 amp fuse is fitted in this plug. Should the fuse need to be replaced, please ensure that the replacement fuse has a rating of 13 amps and that it is approved by ASTA or BSI to BS1362.

Check for the ASTA mark  or BSI mark  on the body of the fuse.

If the plug contains a removable fuse cover, you must ensure that it is re-fitted when the fuse is replaced, if you lose the fuse cover, the plug must not be used until a replacement cover is obtained.

If the fitted moulded plug is unsuitable for the mains socket that you are connecting the unit to, then the fuse should be removed and the plug cut off and disposed of safely. There is a danger of severe electrical shock if the plug is cut off and inserted into any 13 amp socket.

If a new plug is to be fitted, please observe the wiring code as shown below

**WARNING:** THIS APPLIANCE MUST BE EARTHED

**IMPORTANT:** The wires in this mains lead are coloured in accordance with the following code

Green and Yellow:	Earth
Blue:	Neutral
Brown:	Live

**HOW TO REPLACE THE FUSE:**



### Mirror

The mirror that the system uses has an extremely delicate silvered surface which can be damaged easily and must not be touched



## Electrical Specification

Specifications: -

**Electrical:** -

Input Voltage	- 100 – 240v AC. 50/60hz.
Power Consumption (Max)	- 450 Watts
Power Connection	- IEC – C14 Panel Mount
IEC connector In Line Fuse	- 6.3A QB (5x20mm)
Cable Supplied	- IEC C13 Moulded to UK 13A Mains Plug

**Physical:-**

Actual	In Packaging Inc. Accessories
Length 595mm	Length 690mm
Width 595mm	Width 690mm
Depth 122mm	Depth 230mm
Weight 15kg	Weight 19kg

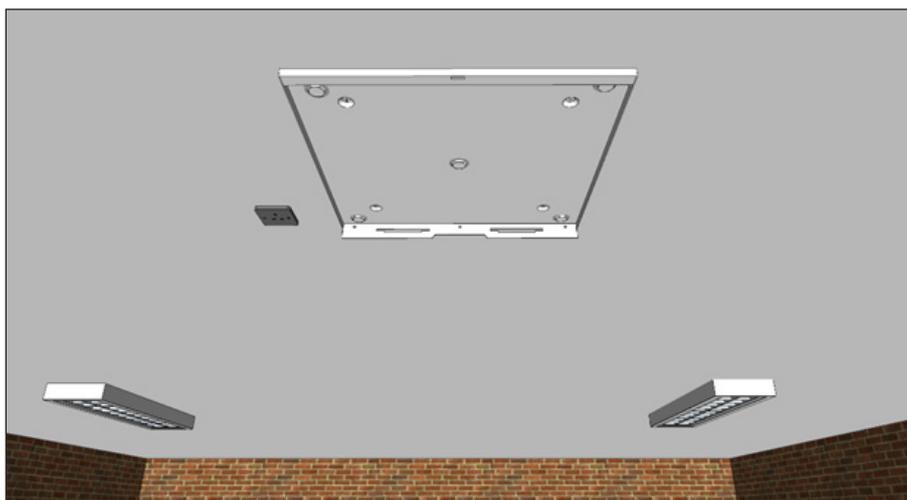
## Installation

When installing the system, you must find a suitable location on the ceiling that will give you enough room around the projection for people to move and so that it is not necessary to adjust the position of the mirror so positions that are close to a wall are not recommended.

The system is designed so that the projection presents immediately centred below the unit.

### Installation onto a solid ceiling:

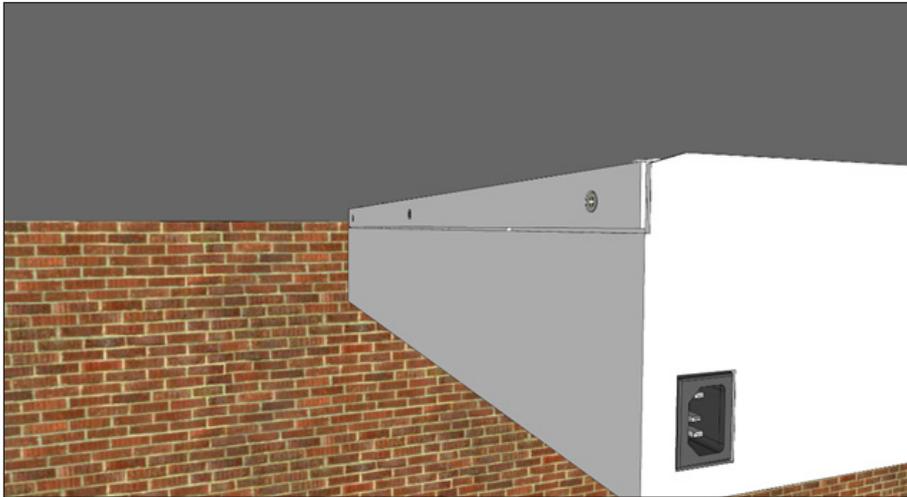
The **omiVista Install** system can be installed onto a flat solid ceiling with the ceiling mount provided using appropriate fixings to support the 15kg weight, we do not recommend fixing into plasterboard alone, use timber as a back support to spread the weight loading behind the plasterboard, or fixing into the structural timber / steel is highly recommended for safety.



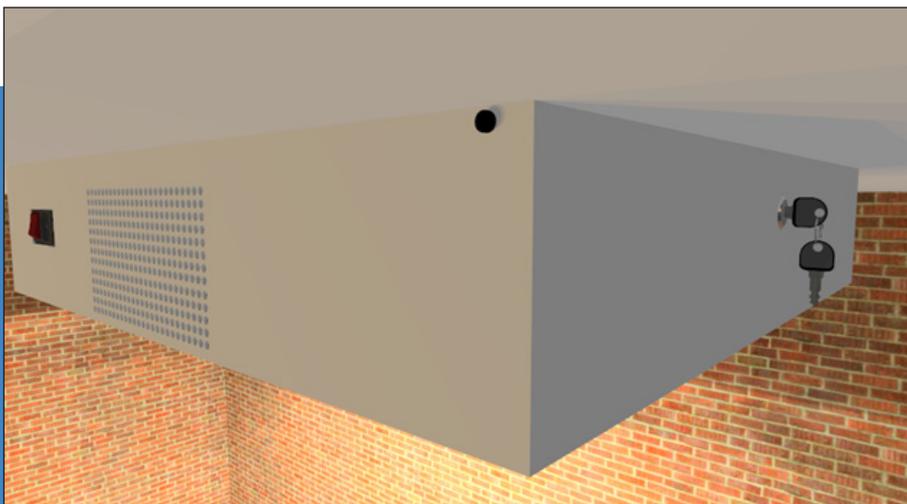
With the ceiling mount plate in place the main unit can be hooked on from the back by locating the tongues on the main unit into the slots at the back of the ceiling plate



Once the main unit is closed to the ceiling plate, the security strip must be fitted to the back of the ceiling plate using 3 x M4 Screws (supplied) to prevent accidental separation of the main unit from the ceiling plate.



Once the unit has been installed and set up, the two side security thumb screws must be fitted.



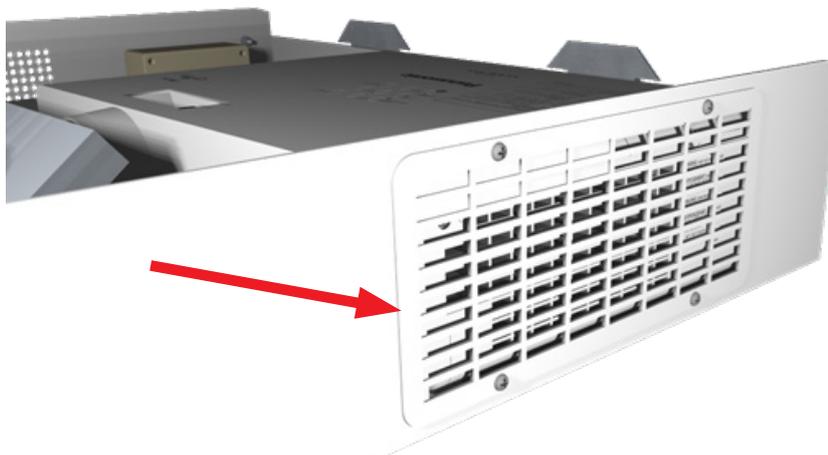
## Installation into a Suspended Ceiling:

The **omiVista Install** system can be installed into a suspended/tiled ceiling with 600 x 600mm or 24" x 24" tiles, given a sufficient void to the solid ceiling above, by removing one tile and fitting the main unit in its place from above.

In this scenario the ceiling plate, supplied, is not required.



Before proceeding it may be necessary to remove the projector vent cover plate, indicated below, to ensure that it does not interfere with the ceiling grid

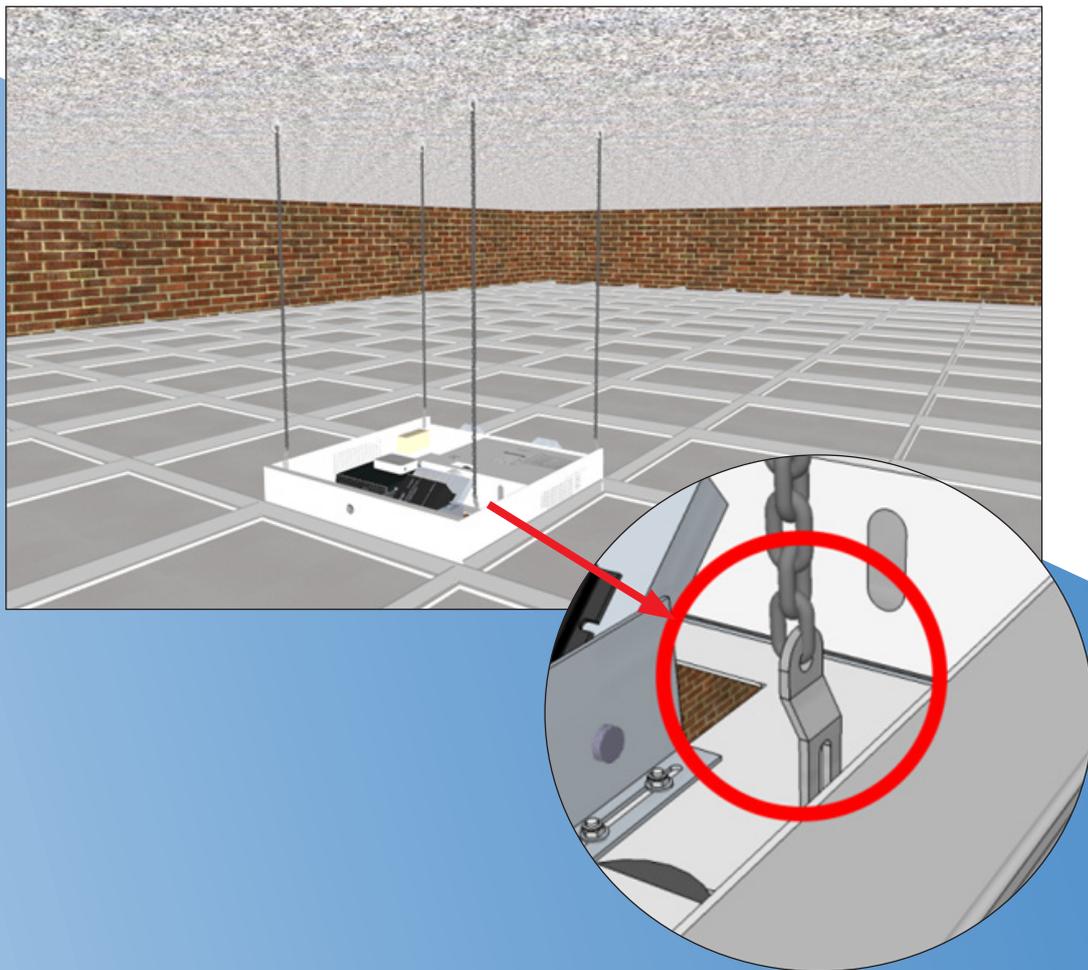


The **omiVista** unit must be supported from above as its weight cannot be supported

by the suspended grid. Using the 4 safety straps provided. We recommend the use of suitable concrete anchors with chains or adjustable length steel cable rope supports, in the scenario where there is a concrete soffit above or securing to Unistrut™ / steel infrastructure that may already be present and suitably located.

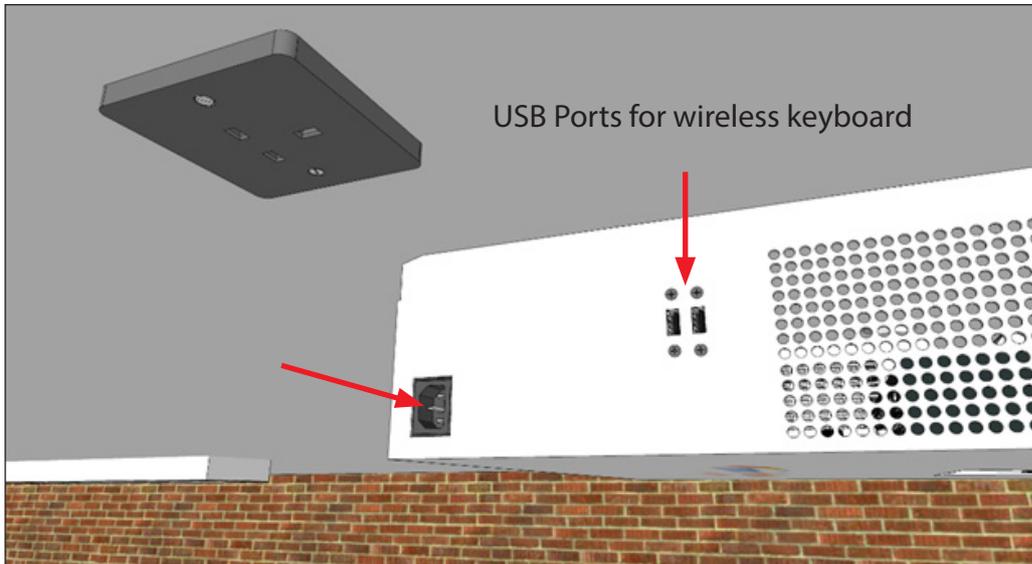
The use of wire rope (min 1.5mm Ø SWL 26KG) along with self-lock Gripple Hanger™, or suitable fittings to adequately support the weight, will provide a secure and quick solution.

You must ensure when supported that the unit is not bearing weight onto the ceiling grid and is fully supported in all four corners by the suspension method you choose



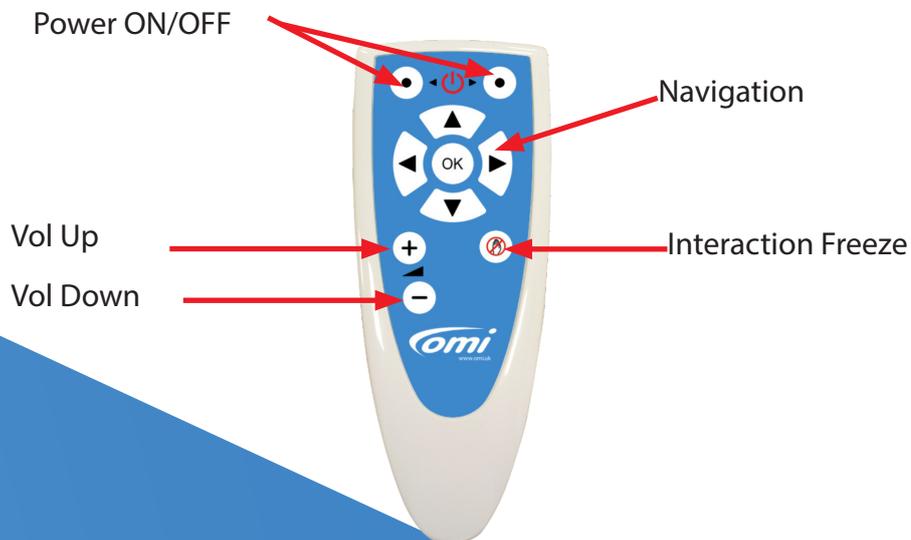
## Power Connection

Power connection is made at the rear left corner of the unit using the IEC power cable supplied so the power socket will need to be within 2 metres of the units proposed location either flush to a solid ceiling or in the ceiling void of a suspended ceiling



## Setup and Configuration

Once the unit has been installed and the power connected the unit can be turned on using the hand-held remote control shown below



## Projector Zoom and Focus settings

Once the power button has been pressed, on the remote control the unit will start-up and after a short period the image will appear on your floor.

Although pre-setup at our factory before shipping, it may be necessary to adjust the projector zoom, focus and or the camera calibration.

In order to adjust the projector zoom or focus it will be necessary to unlock, and lower, very slightly, the main unit from the ceiling back plate, in the case where the unit is mounted on a solid ceiling, in order to reach the adjustment wheels on top of the projector. If the system is integrated into a ceiling grid then the adjustments will need to be made from above by accessing the unit



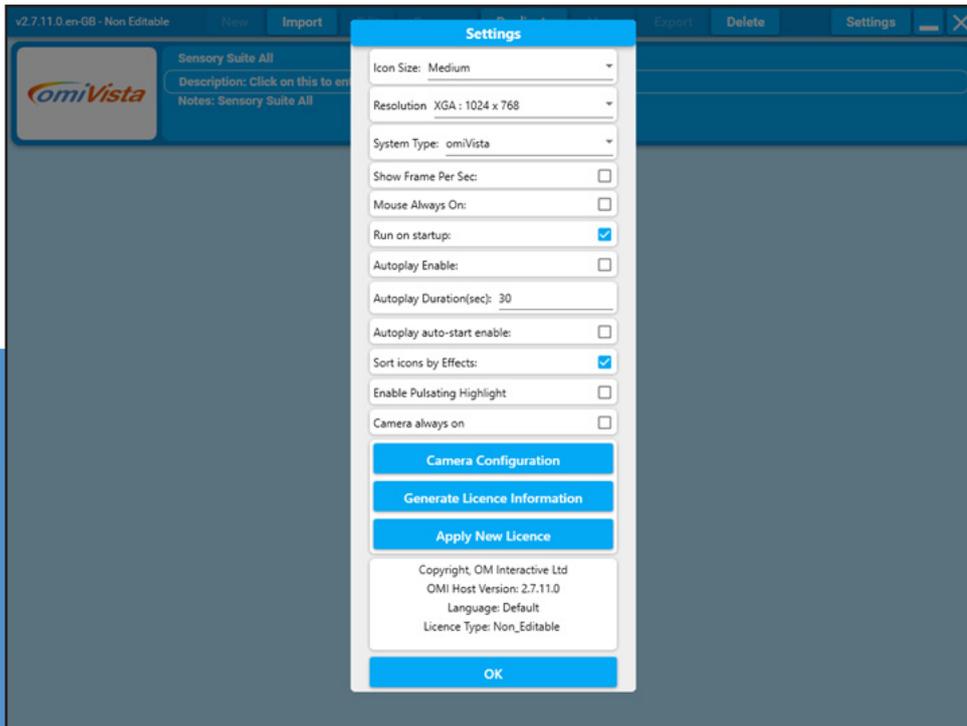
# Camera Calibration

Once the **omiVista** software has started it will be necessary to use the radio keyboard supplied to access the camera calibration settings by pressing Cntrl and O on the keyboard so that you can see the settings panel

at the top right of the menu screen. If an application is running then press the remote OK button

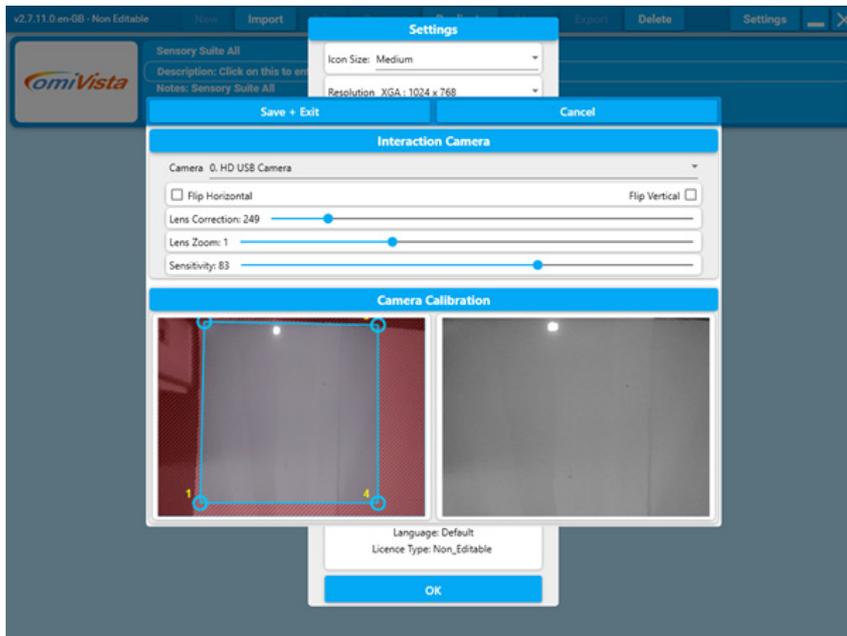


Click on the settings button and then click on camera configuration button.



Ensure that the camera view is in the correct orientation, if not then tick the horizontal or vertical flip boxes to correct. The image of your floor should also look square and not barrelled or distorted along the edges, if it does then use the “Lens Correction” slider to correct.

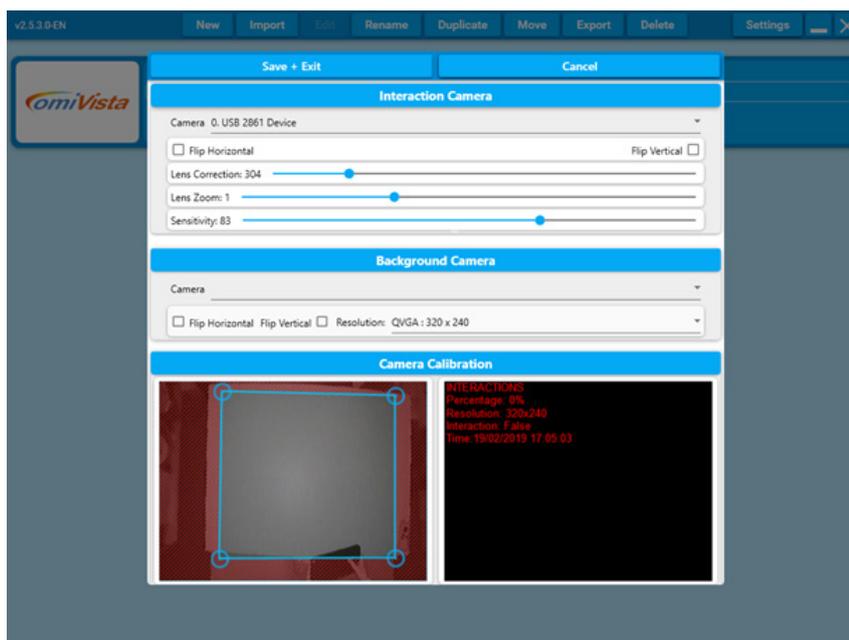
Mark the four corners of the projected image on the floor with a small item that you can see clearly in the left camera window, then using the mouse pad on the wireless keyboard left click and hold the blue pointer in the image and move it to the corner you have marked on the floor. You will see the right camera window expand so that the corners of the projected image become the corners in the window.



## Sensitivity Adjustment

If interactivity occurs without any intervention from the user or if the system does not respond correctly from movement then the sensitivity may require adjustment bearing in mind that sensitivity may be affected by a change in environmental conditions such as increased daylight or direct sunlight which can interfere with the infra-red camera tracking that the system uses to analyse movement across the projected image. The system can be checked from the camera calibration and clicking on the “CTRL” button on the keyboard. You will see the lower right camera window change to show a black background with red or green text showing INTERACTIONS

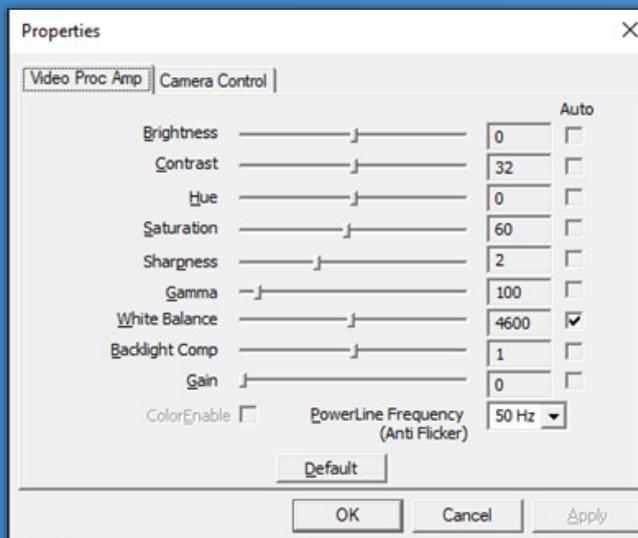
The text in the right window should be solid red while there is no interaction and should change to green when you move your hand into the projection where you will see your hand outlined in white. The sensitivity slider should be adjusted to the right to increase the sensitivity to about 5 points below where false triggering occurs without any movement in the projection



## Camera Exposure Settings

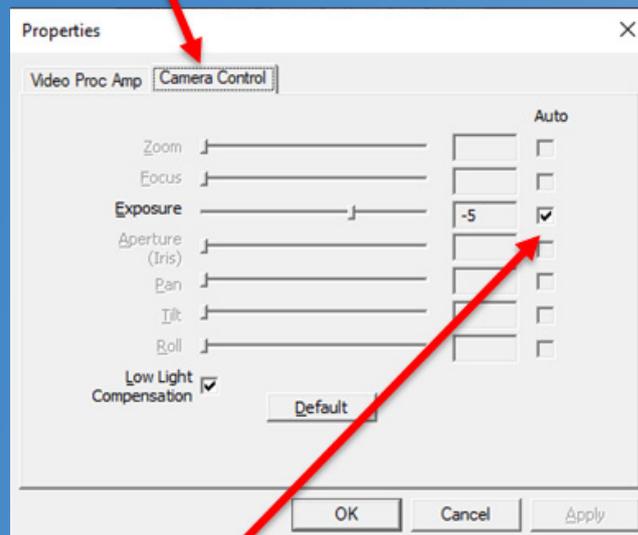
The camera's exposure control should be set to automatic.

By pressing "S" on your keyboard you will activate the camera's setting and display the window below



These settings should not be adjusted

Click on the Camera Control TAB:



Please ensure that the "Exposure" Auto option is set to Auto

Click on OK to confirm then exit and save your settings.

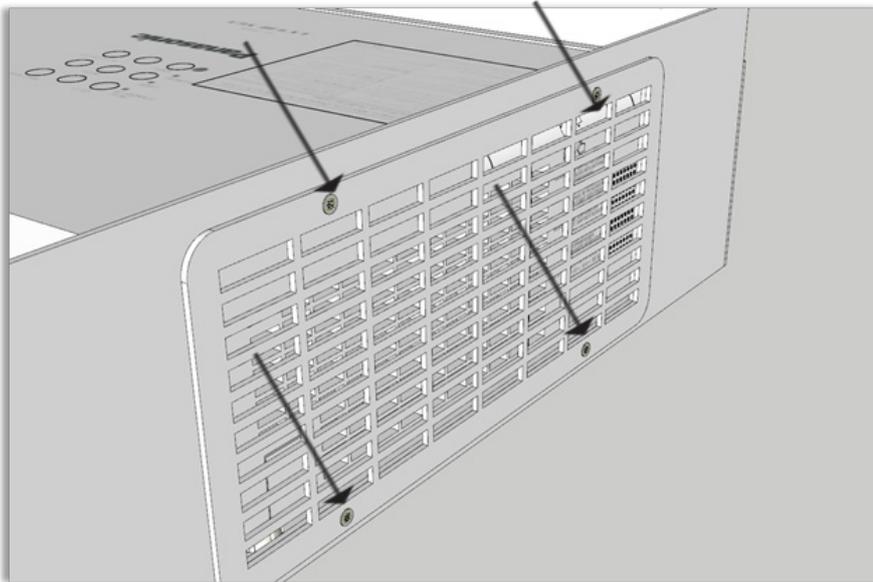
## Maintenance

The projector Lamp is a consumable that will require replacement after about 5000 hours. Do not continue to attempt to use the projector once the “Replace Lamp” appears on the screen as this may result in damage occurring to the projector. The projector Lamp replacement should only be performed by a qualified engineer.

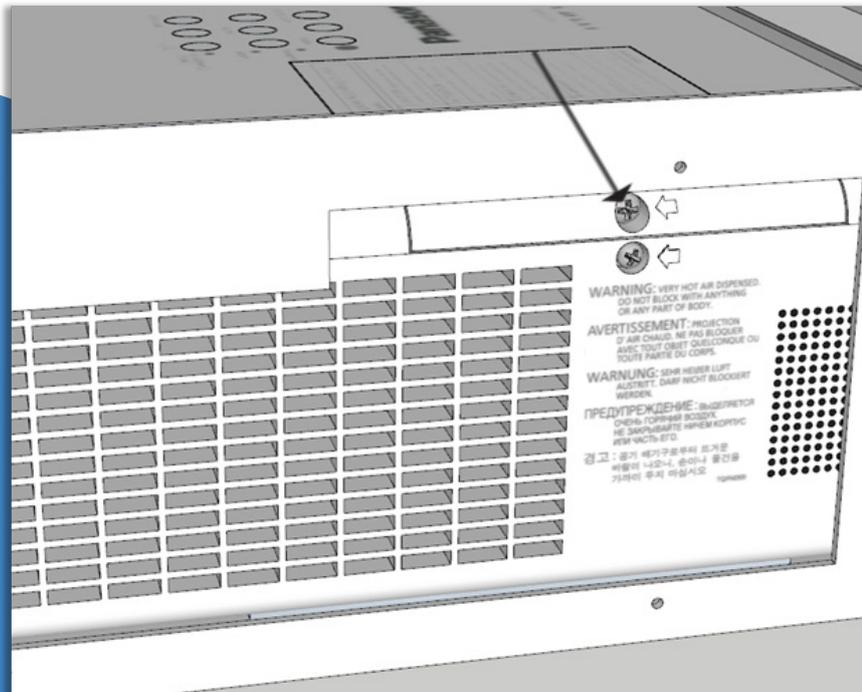
**Ensure that the projector is powered off, the OMi system AC power has been disconnected before proceeding**

Lamp Replacement Procedure:

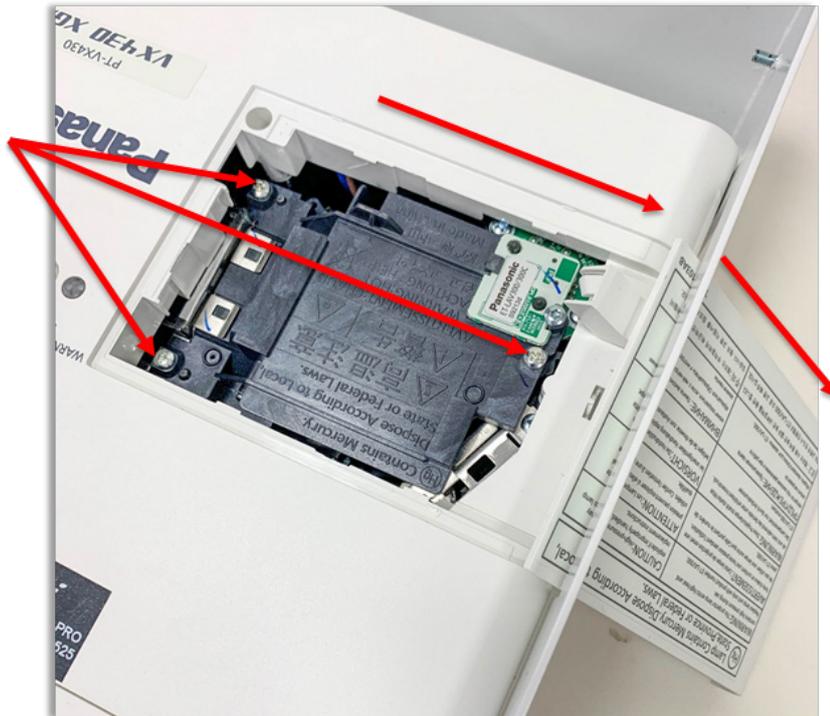
1. Locate the side vent cover, where fitted, and remove the four M3 Screws with a PZ1 driver



2. Remove the screw indicated with a Philips driver



3. Slide open the Lamp door as indicated and unscrew the three screws shown



4. Hold the Lamp unit by its handles and pull gently from the projector.

5. Insert the new lamp gently, do not force as this may damage the connector.

6. Tighten the three screws that lock the Lamp unit into place.

7. Re-attach the lamp cover and tighten its locking screw.

8. Re fit the enclosure side vent cover where fitted.

9. The projector lamp runtime is automatically reset when replacing the lamp.

#### Filter Replacement Procedure:

The projector Air Filter is a consumable that will require replacement depending on periods of use and the degree of dust in the environment that the projector is being used. The projector will usually display a warning message or in extreme circumstances may turn itself off if the internal temperature rises above safe levels when the filter becomes blocked with dust particles. The projector will display a red warning lamp on its control panel to indicate either blocked filter or over temperature condition.

#### Cleaning the Mirror:

The systems mirror has a very delicate silvered surface and must be treated extremely carefully. A clean air blower should be used to remove dust. If in extreme circumstances the surface is contaminated with fingerprints or liquid of some sort You must not clean its surface with anything other than a clean optical lint free microfibre cloth in conjunction with an alcohol free AR coating tolerant liquid cleaner.

## Routine Maintenance Recommendations:

We recommend that all system have an annual service to help to ensure continued reliable operation, this procedure may also include software updates where necessary.

Below is a checklist guide of the elements that we recommend are checked annually

Tasks	Comment	Checked
Thoroughly clean Projector Unit inside and out.		
Check all Lamp statistics and report to customer.		
Clean or replace Projector Filters		
Check optical alignment and calibrate projector image.		
Clean and adjust mirror for best image.		
Check optical alignment clean and re-calibrate camera tracking system.		
Check and test all electrical connections. Check mechanical security and safety of all equipment fixings.		
Check sound system clarity and performance.		
Check condition of flooring. Replacement needed?		
Upgrade PC software to the latest release if required.		
Check functionality of Radio Keyboard / remote control and replace batteries.		
Clean PC & perform PC health checks and report any problems to the customer.		

## Troubleshooting:

Problem	Solution
<p><b>System not turning on with power button on the remote control</b></p>	<ol style="list-style-type: none"> <li>1.Ensure that you are double pressing the power button, wait for at least 30 seconds for the projector to warm up</li> <li>2.Check that the power cable is connected to the unit and that the power socket is switched on and showing a red light</li> <li>3.Disconnect the power for 30 seconds then wait for 2 minutes before trying to turn the system back on from the remote control</li> </ol>
<p><b>System has started but the Interactive software is not running</b></p>	<p>Check that “Run On Startup” has been enabled in the settings or that any old versions of OMi software have been uninstalled.</p>
<p><b>System is on but there is only a blue image on the floor and no image form the PC</b></p>	<p>Using the small Projector remote control ensure that the input setting is to HDMI</p>
<p><b>System is not interactive or there is no movement in the image when interacted with</b></p>	<p>Using the small Projector remote control ensure that the input setting is to HDMI</p> <ol style="list-style-type: none"> <li>1.Check that an image from the camera can be seen in the Camera Calibration window from the settings area.</li> <li>2.Check that the camera cable is correctly connected at the camera end and at the PC via the USB connection</li> </ol>
<p><b>Camera calibration points cannot reach to the edges of the projected image</b></p>	<p>Ensure that the internal mirror is adjusted so that the projected image is immediately below the OmiVista Install unit</p>
<p><b>Projector comes on then quickly turns off again</b></p>	<ol style="list-style-type: none"> <li>1.Check the lamp status indicator on the projector and if necessary, replace the projector lamp</li> <li>2.Check that the projector temperature light is not illuminated, if it is then check that the projector filters do not require replacement</li> </ol>
<p><b>Projected image is blurry</b></p>	<ol style="list-style-type: none"> <li>1.Check that the projector focus adjustment is correctly set</li> <li>2.Check that the mirror is free from dust or smudges See maintenance.</li> </ol>
<p><b>Application in the menu view are not as expected or application behaviour is not as expected</b></p>	<p>Refer to the User Manual that was shipped with your system.</p>



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