

**ROMPA®**

Life Changing Sensory Solutions For All

# Product Manual

Install L V3 2024



**ROMPA®**

Life Changing Sensory Solutions For All

Thank you for purchasing this Rompa® Snoezelen® SurfPro™ Mobile Interactive Floor Projector.  
Before operating this product, please read these instructions carefully and save this manual for future use.

## Contents

<b>Package contents</b> .....	<b>3</b>
<b>Unboxing</b> .....	<b>4</b>
<b>Pre-requisites</b> .....	<b>5</b>
<b>Flooring</b> .....	<b>5</b>
<b>Warnings</b> .....	<b>6</b>
<b>Safety</b> .....	<b>6</b>
<b>Electrical specification</b> .....	<b>10</b>
<b>Cleaning the mirror or projector lens</b> .....	<b>10</b>
<b>Installation</b> .....	<b>11</b>
Installation onto a solid ceiling.....	11
Installation into a suspended ceiling .....	13
<b>Power connection</b> .....	<b>15</b>
<b>Setup and configuration</b> .....	<b>15</b>
<b>Projector zoom and focus settings</b> .....	<b>16</b>
<b>Camera calibration</b> .....	<b>17</b>
<b>Sensitivity adjustment</b> .....	<b>18</b>
<b>Camera exposure settings</b> .....	<b>19</b>
<b>Maintenance</b> .....	<b>20</b>
<b>Routine maintenance recommendations</b> .....	<b>20</b>
<b>Troubleshooting</b> .....	<b>21</b>

# Package Contents

Description	QTY
Installation guide.....	1
RF Wireless keyboard.....	1
RF Remote control.....	1
Install system.....	1
Ceiling mount.....	1
UK IEC cable.....	1
Security strap.....	1
Security strap screws (m4).....	3
Safety strap.....	4
Security locking screws.....	2
M4 nylock nuts.....	4
M4 washers.....	4



Wireless Keyboard



Remote Control



Main Unit



M4 Nylock Nuts & Washers x4



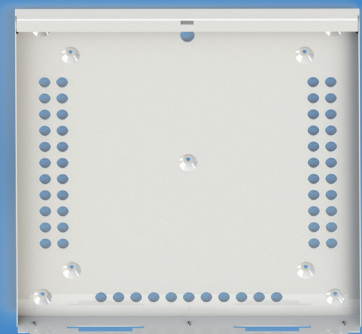
IEC Power Connection



Safety Straps



M4 Screws



Ceiling Mount Plate



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 Rompa.



## 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:**



## Safety

Please follow all warnings, precautions and maintenance as recommended in this Product Manual.

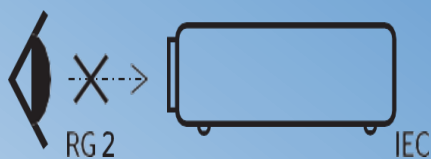
### Important Safety Instruction

- Do not block any ventilation openings. To ensure reliable operation of the projector and to protect from over heating.
- To reduce the risk of fire and/or electric shock, do not expose the projector to rain or moisture. Do not install near heat sources such as ceiling radiators or heaters
- Do not let objects or liquids enter the system. They may touch dangerous voltage points and short out parts that could result in fire or electric shock.
- Do not use under the following conditions:
  - In extremely hot, cold or humid environments.
    - (i) Ensure that the ambient room temperature is within 0°C ~ 35°C
    - (ii) Relative humidity is up to 80%
  - In areas susceptible to excessive dust and dirt.
  - Near any appliance generating a strong magnetic field.
  - In direct sunlight.

- Do not use the unit if it has been physically damaged or abused. Physical damage/abuse would be (but not limited to):
  - Unit has been dropped.
  - Power supply cord or plug has been damaged.
  - Projector has been exposed to rain or moisture.
- Do not block the light coming out of the projector lens when in operation. The light will heat the object and may melt, cause burns or start a fire.
- Please do not open or disassemble the system as this may cause electric shock.
- Do not attempt to service the unit yourself. Opening or removing covers may expose you to dangerous voltages or other hazards. Please call OM Interactive or your local service agent before you send the unit for repair.
- The unit should only be repaired by authorized service personnel.
- Only use attachments/accessories specified by the manufacturer.
- Do not look into straight into the projector lens during operation. The bright light may harm your eyes.
- This projector will detect the life of the light source itself.
- Do not touch the mirror or the projector lens with bare hands.
- Remove battery/batteries from remote control before storage. If the battery/batteries are left in the remote for long periods, they may leak.
- Do not use or store the projector in places where smoke from oil or cigarettes may be present, as it can adversely affect the quality of the projector performance.

## Laser Radiation Safety Information

- This product is classified as CLASS 1 LASER PRODUCT - RISK GROUP 2 of IEC60825-1 : 2014 and also complies with 21 CFR 1040.10 and 1040.11 as a Risk Group 2, LIP (Laser Illuminated Projector) as defined in IEC 62471-5:Ed. 1.0. For more information see Laser Notice No. 57, dated May 8, 2019.



"WARNING: MOUNT ABOVE THE HEADS OF CHILDREN."  
Additional warning against eye exposure for close exposures less than 1 m.

"AVERTISSEMENT : INSTALLER AU-DESSUS DE LA TÊTE DES ENFANTS."  
Avertissement supplémentaire contre l'exposition oculaire pour des expositions à une distance de moins de 1 m.

「警告：安裝在高於兒童頭部處」 針對1m以下近距離眼睛接觸的額外警告

“警告：安裝在高于孩童头顶处” 关于小于1m近距离眼睛暴露的附加警告

- As with any bright source, do not stare into the direct beam, RG2 IEC 62471-5:2015.
- This projector inside this unit is a class 1 laser product of IEC/EN 60825-1:2014 and risk group 2 with the requirements of IEC 62471-5:2015.
- Supervise children: no staring, and avoid use of optical aids!
- Notice is given to supervise children and to never allow them to stare into the projector beam at any distance from the projector.
- Notice is given to the user to avoid the use of optical aids such as binoculars or telescopes inside the light beam.
- When turning on the projector, make sure no one within projection range is looking at the lens.
- Keep any items (magnifying glass etc.) out of the light path of the projector. The light path being projected from the lens is extensive, therefore any kind of abnormal objects that can redirect light coming out of the lens, can cause an unpredictable outcome such as a fire or injury to the eyes.
- Any operation or adjustment not specifically instructed by the user's guide creates the risk of hazardous laser radiation exposure.
- Do not stare into beam when the projector is on. The bright light may result in permanent eye damage.

Not following the control, adjustment or operation procedure may cause damage by the exposure of laser radiation.

## **Laser Notice**

IEC 60825-1:2014: CLASS 1 LASER PRODUCT - RISK GROUP 2.

The product's intended use as a consumer laser product and compliant with EN 50689:2021.

CLASS 1 CONSUMER LASER PRODUCT

EN 50689:2021

## **Copyright**

This publication, including all photographs, illustrations and software, is protected under international copyright laws, with all rights reserved. Neither this manual, nor any of the material contained herein, may be reproduced without written consent of the author.

## **Disclaimer**

The information in this document is subject to change without notice. The manufacturer makes no representations or warranties with respect to the contents hereof and specifically disclaims any implied warranties of merchantability or fitness for any particular purpose. The manufacturer reserves the right to revise this publication and to make changes from time to time in the content hereof without obligation of the manufacturer to notify any person of such revision or changes.

## FCC

This device has been tested and found to comply with the limits for a Class B digital device pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This device generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this device does cause harmful interference to radio or television reception, which can be determined by turning the device off and on is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the device and receiver.
- Connect the device into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/television technician for help.

## Caution

Changes or modifications not expressly approved by the manufacturer could void the user's authority, which is granted by the Federal Communications Commission, to operate this projector.

## WEE

### Disposal instructions



Do not throw this electronic device into the trash when discarding. To minimize pollution and ensure utmost protection of the global environment, please recycle it.

## Operation Conditions

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference and
2. This device must accept any interference received, including interference that may cause undesired operation.

## Notice: Canadian users

This Class B digital apparatus complies with Canadian ICES-003.

Remarque a l'intention des utilisateurs canadiens

Cet appareil numérique de la classe B est conforme a la norme NMB-003 du Canada.

## Declaration of Conformity for EU countries

- EMC Directive 2014/30/EU (including amendments)
- Low Voltage Directive 2014/35/EU
- RED 2014/53/EU (if product has RF function)

## Cleaning the Mirror or Projector Lens

- Before cleaning the Mirror or lens, be sure to turn off the system to allow it to completely cool down.
- Use a compressed air tank to remove the dust.
- Use a special Lint-Free-cloth for cleaning Mirror or lens and gently wipe the Mirror or lens. Do not touch either with your fingers.
- Do not use alkaline/acid detergents or volatile solvents such as alcohol for cleaning mirror or lens. If either are damaged due to the cleaning process, it is not covered by the warranty.



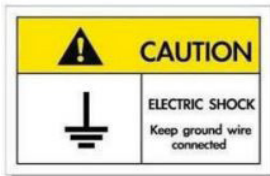
Warning: Do not use a spray containing flammable gases to remove dust or dirt from the lens. This may cause a fire due to excessive heat inside the projector.



Warning: Do not clean the lens if the projector is warming up as this may cause the lens' surface film to peel off.



Warning: Do not wipe or tap the mirror or lens with a hard object



To avoid electric shock, the unit must be properly grounded (earthed).

### Mirror

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



## Specification

### Physical to show "Projector Specifications:

- Brightness 4300 Lumens (laser)
- Light Source Life 30,000 Hours

### Electrical: -

Input Voltage	- 100 – 240v AC. 50/60hz.
Power Consumption (Max)	- 100-240vAC 50/60hz 182 Watts (max), standby 8W
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 140mm	Depth 230mm
	Weight 14kg	Weight 19kg

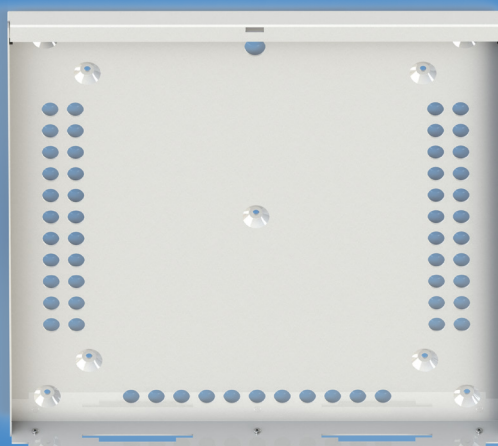
## Installation

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:

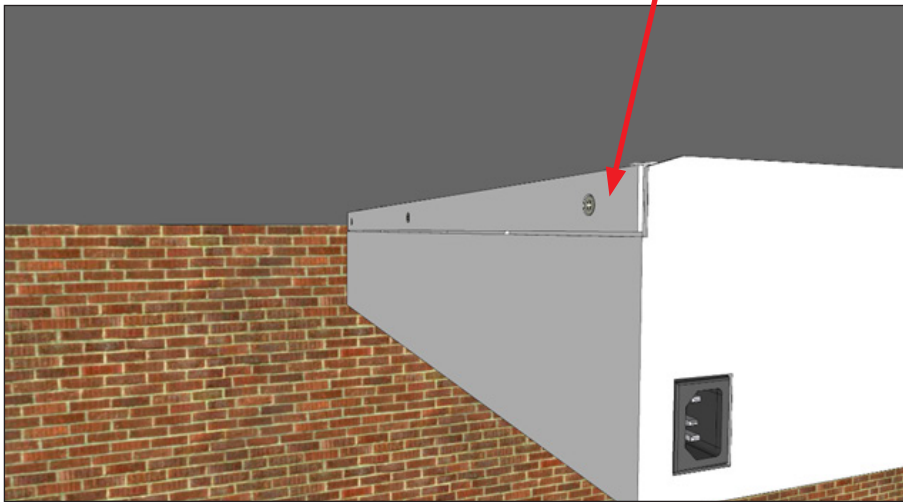
The **omiVista Install** system can be installed onto a flat solid ceiling with the ceiling mount provided using appropriate fixings to support the 15kg weight, we do not recommend fixing into plasterboard alone, use timber as a back support to spread the weight loading behind the plasterboard, or fixing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



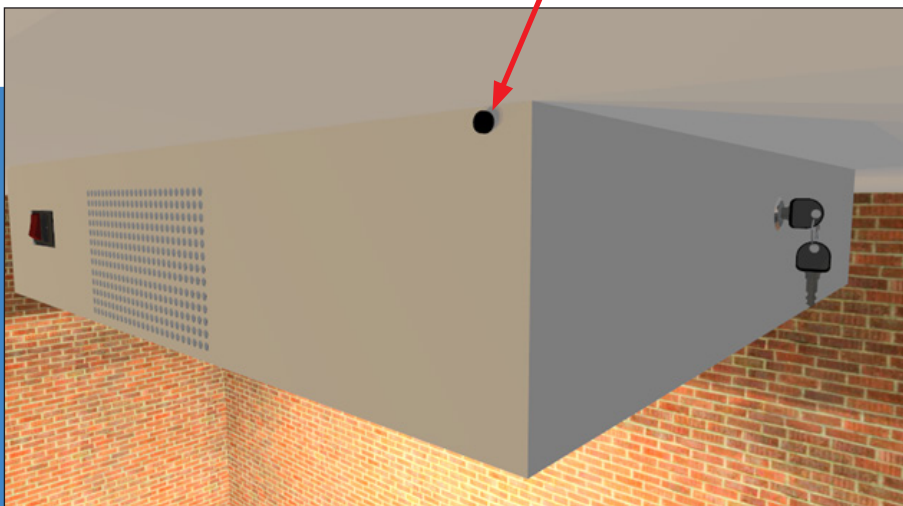
With the ceiling mount plate in place the main unit can be hooked on from the back by locating the tongues on the main unit into the slots at the back of the ceiling plate



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.



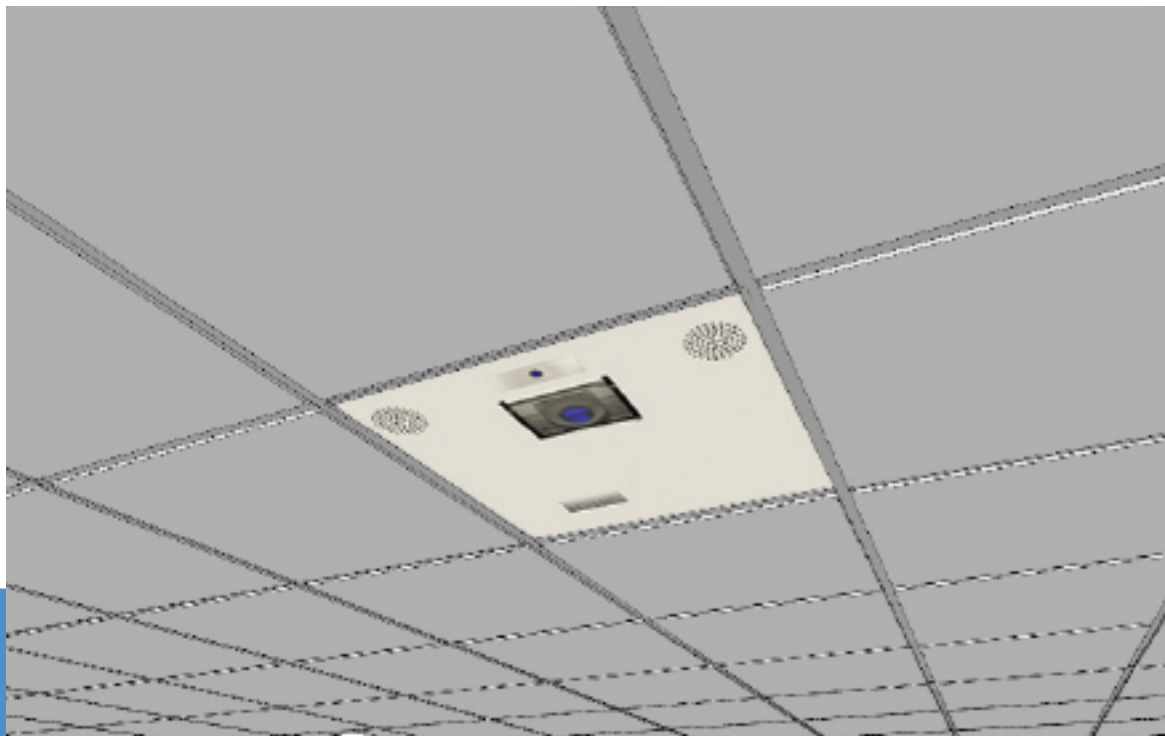
Once the unit has been installed and set up, the two side security thumb screws must be fitted.



### Installation into a Suspended Ceiling:

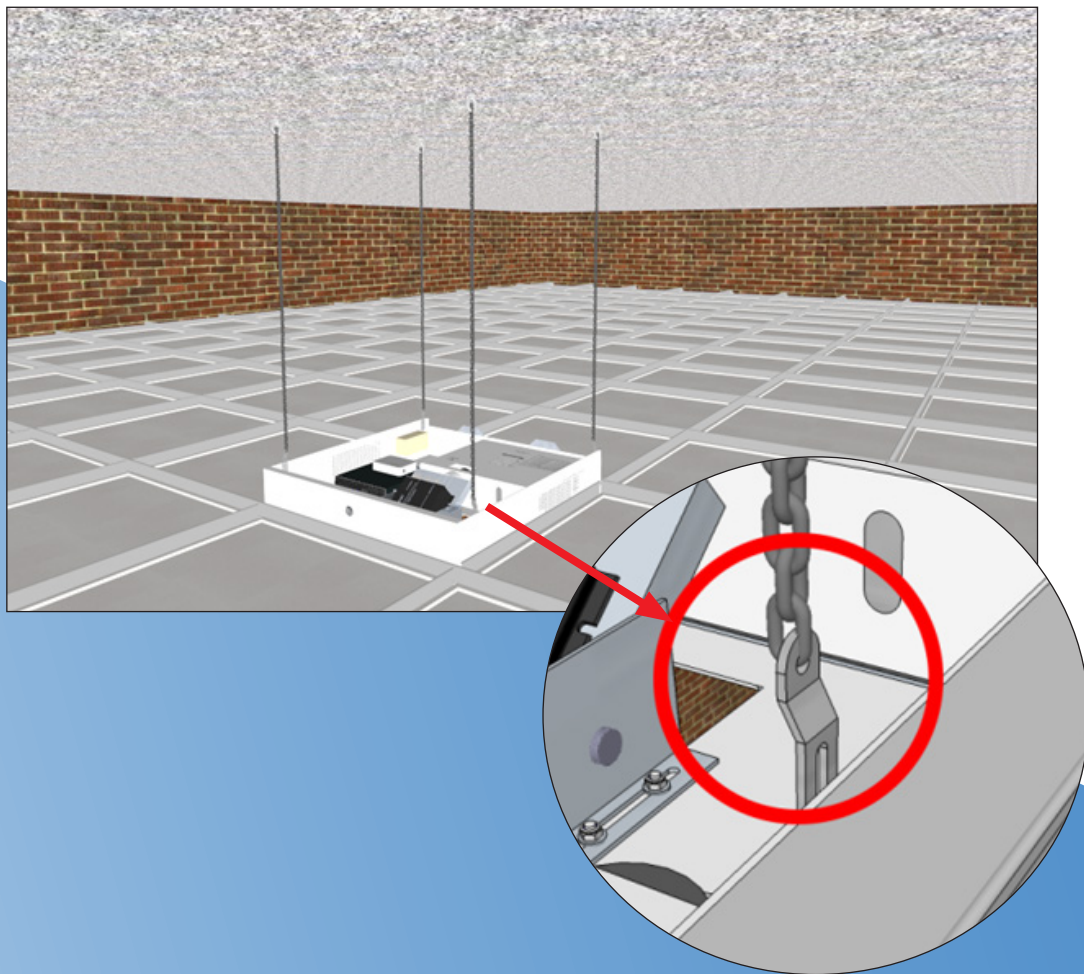
The **omiVista Install** system can be installed into a suspended/tiled ceiling with 600 x 600mm or 24" x 24" tiles, given a sufficient void to the solid ceiling above, by removing one tile and fitting the main unit in its place from above.

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



The Rompa 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.



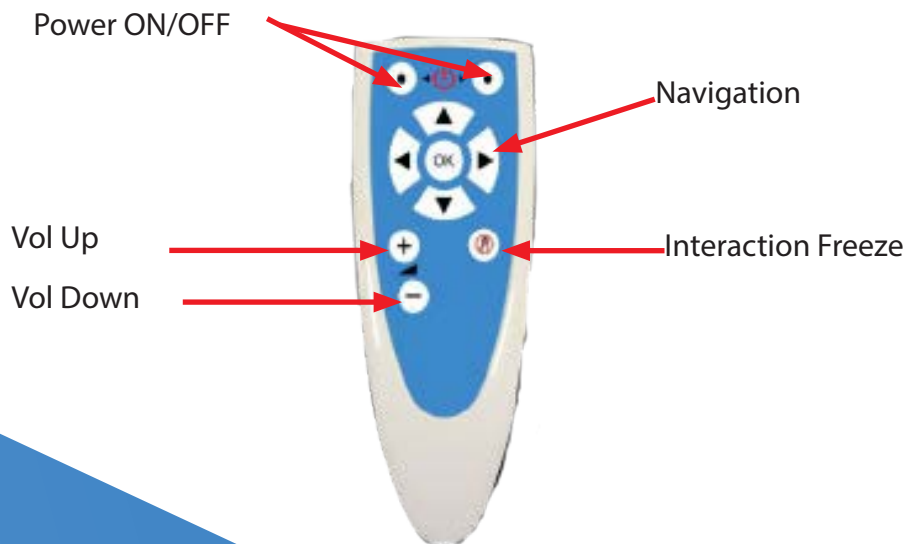
## Power Connection

The power connection is made at the rear left corner of the unit using the supplied IEC power cable. Therefore, the power socket needs to be within 2 meters of the unit's 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 by first pressing and holding the left power button, and then briefly pressing the the right power button.



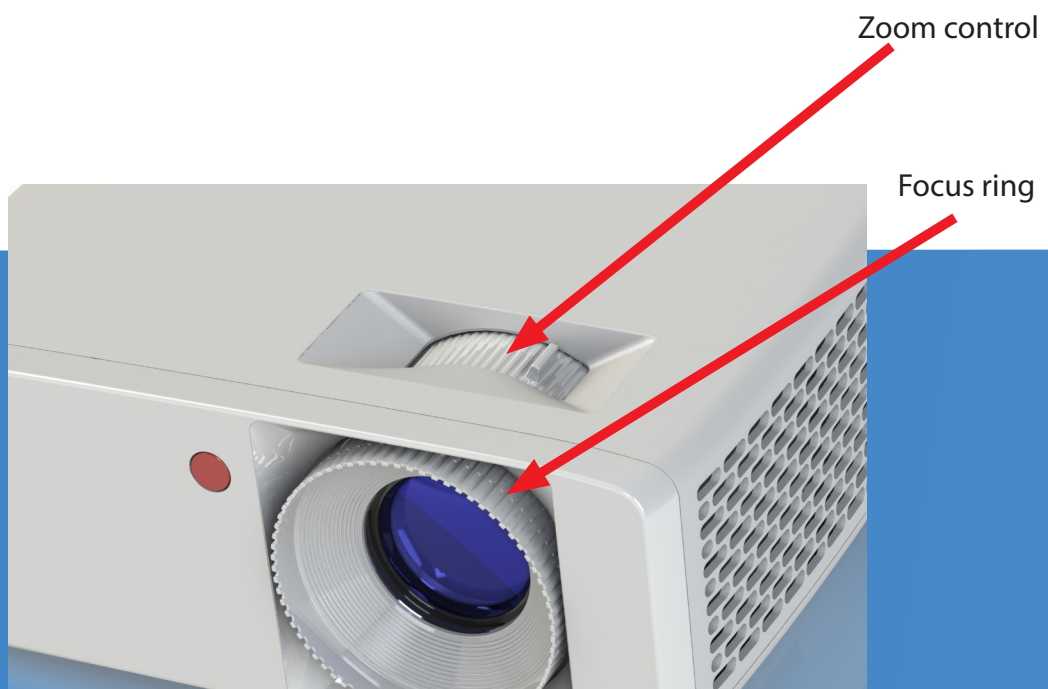
## Projector Zoom and Focus settings

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.

System on indicator will illuminate once power has been turned on by the remote control

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 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 zoom adjustment wheel on top of the projector. If the system is integrated into a ceiling grid then the zoom adjustment will need to be made from above. The focus can be adjusted through the projection opening without lowering the unit. Be careful not to stare into the light beam.



## Camera Calibration

Once the software has started it will be necessary to use the radio keyboard supplied to access the camera calibration settings by pressing Ctrl 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.

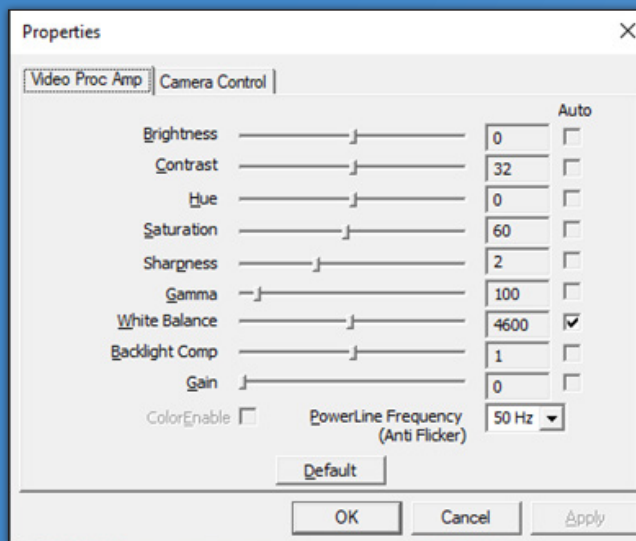
The text in the right window should be solid red while there is no interaction and should change to green when you move your hand into the projection where you will see your hand outlined in white. The sensitivity slider should be adjusted to the right to increase the sensitivity to about 5 points below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



## Camera Exposure Settings

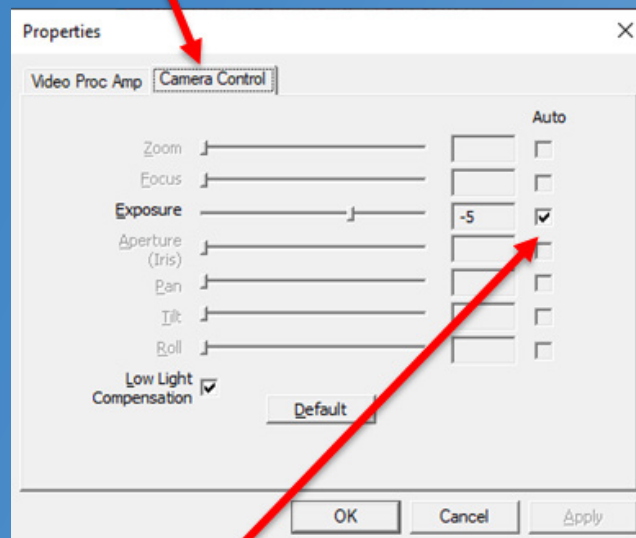
The camera's exposure control should be set to automatic.

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.

## 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 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 pressing, and holding the left power button on the remote control while then pressing the right 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 from 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>	<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>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>



Life Changing Sensory Solutions For All  
[www.rompa.com](http://www.rompa.com)

**Rompa Ltd**  
**Unit 1-4,**  
**Carrwood Industrial Estate,**  
**Carrwood Road, Chesterfield,**  
**S41 9QB**

T (+44) 01246 211 777