Pro Hardware Setup Guide

Floor projection, wall projection, flatscreen TV, and touchscreen
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Floor Projection

Ceiling Mounted
Floor Projection Ceiling Mounted
Floor Projection Ceiling Mounted

POWER

WINDOWS 10 COMPUTER

PROJECTOR CEILING MOUNT

PROJECTOR

ORBBEC MOUNT

ORBBEC ASTRA

ORBBEC FIELD OF VIEW

PROJECTION

PROJECTION SURFACE
INSTRUCTIONS FOR USE
— Connect to the Internet to download your Lumo Play software from www.lumoplay.com, install it and register the software.
— Follow the instructions that came with your projector mount to install the projector mount on the ceiling. Plug your projector into the power outlet.
— Place your Windows 10 computer where it will be stored permanently. Turn it on. Connect to the Internet. Connect a wireless keyboard and mouse to the computer. Connect the computer to the projector using an HDMI cable.
— Follow the instructions that came with your camera mount to install the Orbbec Astra camera on the ceiling.
— Connect the USB male to female active extension cable to the Orbbec Astra. Plug the USB connector into a USB port of your Windows 10 computer.
— Once the hardware is in position (see illustration 3) run the Lumo Play software and follow the installation wizard to calibrate the software and run a game.

ADVANTAGES FOR THIS SETUP
— Shadows are minimal and directly under users
— Equipment is out of reach
— Chances of equipment moving is low
— Need to recalibrate is low
— Accurate motion detection

DRAWBACKS FOR THIS SETUP
— Equipment is not accessible
— Not portable

GOOD TO KNOW
— Devices may get warm while in use; this is completely normal and they will gradually cool down again after they are turned off.
— Not all projectors are made for ceiling to floor projection or other similar vertical projection. Please check with your projector manufacturer to make sure your projector can be safely used in a vertical position (pointing at the floor). It is recommended that you use LED or LED laser/hybrid projectors for vertical projection. Projectors with LED bulbs and heat vents on the side or back of the projector are generally safe to use.
— We strongly recommend using cable protection channels to keep stray power and usb cables away from little hands.
Floor Projection

Ultra Short Throw
1

ULTRA SHORT THROW PROJECTOR

ORBBEC ASTRA

USB MALE TO FEMALE
ACTIVE EXTENSION CABLE

POWER FOR COMPUTER

PROJECTOR POWER CABLE

HDMI

WINDOWS 10 MINI COMPUTER

ORBBEC MOUNT

Floor Projection Ultra short throw
Floor Projection Ultra short throw
INSTRUCTIONS FOR USE
— Connect to the Internet to download your Lumo Play software from www.lumoplay.com, install it and register the software.

— Setup your projector on a stand near the ground. Secure your projector to the stand. Plug your projector into the power outlet.

— Place your Windows 10 computer where it will be stored permanently. Turn it on. Connect to the Internet. Connect a wireless keyboard and mouse to the computer. Connect the computer to the projector using an HDMI cable.

— Follow the instructions that came with your camera mount to install the Orbbec Astra camera on the ceiling.

— Connect the USB male to female active extension cable to the Orbbec Astra. Plug the USB connector into a USB port of your Windows 10 computer.

— Once the hardware is in position (see illustration 3) run the Lumo Play software and follow the installation wizard to calibrate the software and run a game.

ADVANTAGES FOR THIS SETUP
— Equipment is accessible
— It is more portable
— Easy to setup
— Accurate motion detection

DRAWBACKS FOR THIS SETUP
— Shadows are large
— Equipment is in reach of users
— Chances of users touching equipment is high
— Need to recalibrate often

GOOD TO KNOW
— Devices may get warm while in use; this is completely normal and they will gradually cool down again after they are turned off.

— Not all projectors are made for ceiling to floor projection or other similar vertical projection. Please check with your projector manufacturer to make sure your projector can be safely used in a vertical position (pointing at the floor). It is recommended that you use LED or LED laser/hybrid projectors for vertical projection. Projectors with LED bulbs and heat vents on the side or back of the projector are generally safe to use.

— We strongly recommend using cable protection channels to keep stray power and usb cables away from little hands.
Wall Projection

Ceiling Mounted

Close-Up

Full-Body
Wall Projection Ceiling Mounted
Wall Projection Ceiling Mounted Cose-Up
3b

- Projector Mount
- Projector
- Projection
- ORBBEC Astra
- ORBBEC Mount
- USB Male to Female Active Extension Cable
- Projection Surface
- ORBBEC Field of View

Wall Projection Ceiling Mounted Full-Body
INSTRUCTIONS FOR USE
— Connect to the Internet to download your Lumo Play software from www.lumoplay.com, install it and register the software.

— Install the projector ceiling mount. Follow the instructions that came with your projector mount to install the projector mount on the ceiling. Plug your projector into the power outlet.

— Place your Windows 10 computer where it will be stored permanently. Turn it on. Connect to the Internet. Connect a wireless keyboard and mouse to the computer. Connect the computer to the projector using an HDMI cable.

— 3a. Close-Up Follow the instructions that came with your camera mount to install the Orbbec Astra camera on the ceiling.

— 3b. Full-Body Follow the instructions that came with your camera mount to install the Orbbec Astra camera on the wall.

— Connect the USB male to female active extension cable to the Orbbec Astra. Plug the USB connector into a USB port of your Windows 10 computer.

— Once the hardware is in position (see illustration 3a Close-Up or 3b Full-Body) run the Lumo Play software and follow the installation wizard to calibrate the software and run a game.

3.A CLOSE-UP - ADVANTAGES FOR THIS SETUP
— Equipment is out of reach
— Chances of equipment moving is low
— Need to recalibrate is low
— Accurate motion detection when users are close to the wall

3.A CLOSE-UP - DRAWBACKS FOR THIS SETUP
— Shadows are large when users are near wall
— Distant users are not detected

3.B FULL-BODY - ADVANTAGES FOR THIS SETUP
— Can detect distant users
— Equipment is out of reach
— Chances of equipment moving is low
— Need to recalibrate is low

3.B FULL-BODY - DRAWBACKS FOR THIS SETUP
— Cannot detect users that are close to the wall
— Motion detection is not as accurate
— Shadows are large when users are near wall

GOOD TO KNOW
— Devices may get warm while in use; this is completely normal and they will gradually cool down again after they are turned off.

— We strongly recommend using cable protection channels to keep stray power and usb cables away from little hands.
Wall Projection

Ultra Short Throw

Close-Up

Full-Body
1

ULTRA SHORT THROW PROJECTOR & PROJECTOR MOUNT

HDMI

POWER FOR COMPUTER

WINDOWS 10 MINI COMPUTER

ORBBEC MOUNT

PROJECTOR POWER CABLE

ORBBEC ASTRA

USB MALE TO FEMALE ACTIVE EXTENSION CABLE
1. Connect ORBBEC ASTRA to the USB MALE TO FEMALE ACTIVE EXTENSION CABLE.
2. Connect the USB MALE TO FEMALE ACTIVE EXTENSION CABLE to the WINDOWS 10 MINI COMPUTER.
3. Connect the WINDOWS 10 MINI COMPUTER to the PROJECTOR via HDMI.

Wall Projection Ultra Short Throw
3a

ORBBEC MOUNT
ORBBEC
ASTRA

ORBBEC FIELD OF VIEW
PROJECTION

PROJECTOR MOUNT
PROJECTOR

USB MALE TO FEMALE
ACTIVE EXTENSION CABLE

PROJECTION SURFACE

Wall Projection Ultra Short Throw Close-Up
3b

Wall Projection Ultra Short Throw Full-Body
INSTRUCTIONS FOR USE
— Connect to the Internet to download your Lumo Play software from www.lumoplay.com, install it and register the software.

— Install the projector wall mount. Follow the instructions that came with your projector mount to install the projector mount on the wall. Plug your projector into the power outlet.

— Place your Windows 10 computer where it will be stored permanently. Turn it on. Connect to the Internet. Connect a wireless keyboard and mouse to the computer. Connect the computer to the projector using an HDMI cable.

— 3a. Close-Up Follow the instructions that came with your camera mount to install the Orbbec Astra camera on the ceiling.

— 3b. Full-Body Follow the instructions that came with your camera mount to install the Orbbec Astra camera on the wall.

— Connect the USB male to female active extension cable to the Orbbec Astra. Plug the USB connector into a USB port of your Windows 10 computer.

— Once the hardware is in position (see illustration 3a Close-Up or 3b Full-Body) run the Lumo Play software and follow the installation wizard to calibrate the software and run a game.

3.A CLOSE-UP - ADVANTAGES FOR THIS SETUP
— Equipment is out of reach
— Chances of equipment moving is low
— Need to recalibrate is low
— Accurate motion detection when users are close to the wall
— Shadows are minimal

3.A CLOSE-UP - DRAWBACKS FOR THIS SETUP
— Distant users are not detected

3.B FULL-BODY - ADVANTAGES FOR THIS SETUP
— Can detect distant users
— Equipment is out of reach
— Chances of equipment moving is low
— Need to recalibrate is low
— Shadows are minimal

3.B FULL-BODY - DRAWBACKS FOR THIS SETUP
— Cannot detect users that are close to the wall
— Motion detection is not as accurate

GOOD TO KNOW
— Devices may get warm while in use; this is completely normal and they will gradually cool down again after they are turned off.

— We strongly recommend using cable protection channels to keep stray power and usb cables away from little hands.
Flatscreen

Wall Mounted

Full-Body

Close-Up
1 FLATSCREEN POWER CABLE

FLATSCREEN TV

FLATSCREEN WALL MOUNT BRACKET

ORBEEC ASTRA

HDMI

USB MALE TO FEMALE
ACTIVE EXTENSION CABLE

ORBEEC MOUNT

POWER FOR COMPUTER

WINDOWS 10 MINI COMPUTER
ORBBEC Astra
ORBBEC Mount
USB Male to Female Active Extension Cable

ORBBEC Field of View

Flatscreen TV
Flatscreen TV Wall Mount
Windows 10 Computer
INSTRUCTIONS FOR USE
— Connect to the Internet to download your Lumo Play software from www.lumoplay.com, install it and register the software.

— Follow the instructions that came with your flatscreen mount to install the flatscreen mount on the wall. Plug your flatscreen into the power outlet.

— Place your Windows 10 computer where it will be stored permanently. Turn it on. Connect to the Internet. Connect a wireless keyboard and mouse to the computer. Connect the computer to the flatscreen using an HDMI cable.

— 3a. Full-Body Follow the instructions that came with your camera mount to install the Orbbec Astra camera on the wall.

— 3b. Close-Up Follow the instructions that came with your camera mount to install the Orbbec Astra camera on the ceiling.

— Connect the USB male to female active extension cable to the Orbbec Astra. Plug the USB connector into a USB port of your Windows 10 computer.

— Once the hardware is in position (see illustration 3a Full-Body or 3b Close-Up) run the Lumo Play software and follow the installation wizard to calibrate the software and run a game.

3.A FULL-BODY - ADVANTAGES FOR THIS SETUP
— Can detect distant users
— Chances of equipment moving is low
— Need to recalibrate is low
— No shadows

3.A FULL-BODY - DRAWBACKS FOR THIS SETUP
— Cannot detect users that are close to the screen
— Motion detection is not as accurate

3.B CLOSE-UP - ADVANTAGES FOR THIS SETUP
— Can detect users that are close to screen
— Chances of equipment moving is low
— Need to recalibrate is low
— Accurate motion detection when users are close to the screen
— No shadows

3.B CLOSE-UP - DRAWBACKS FOR THIS SETUP
— Distant users are not detected

GOOD TO KNOW
— Devices may get warm while in use; this is completely normal and they will gradually cool down again after they are turned off.

— We strongly recommend using cable protection channels to keep stray power and usb cables away from little hands.
Touchscreen

Wall Mounted
1

TOUCHSCREEN

HDMI IN

USB

POWER

TOUCHSCREEN WALL MOUNT BRACKET

HDMI

POWER FOR COMPUTER

WINDOWS 10 MINI COMPUTER

Touchscreen Wall Mounted
INSTRUCTIONS FOR USE
— Connect to the Internet to download your Lumo Play software from www.lumoplay.com, install it and register the software.

— Follow the instructions that came with your touchscreen mount to install the touchscreen mount on the wall. Plug your touchscreen into the power outlet.

— Place your Windows 10 computer where it will be stored permanently. Turn it on. Connect to the Internet. Connect a wireless keyboard and mouse to the computer. Connect the computer to the touchscreen using an HDMI cable.

— Connect the USB cable that came with your touchscreen to a USB port on your Windows 10 computer.

— Once the hardware is in position (see illustration 3) run the Lumo Play software and follow the installation wizard to calibrate the software and run a game.

ADVANTAGES FOR THIS SETUP
— Can detect users that touch the screen
— No need to recalibrate
— Perfect accuracy
— No shadows

DRAWBACKS FOR THIS SETUP
— No interactivity unless user is touching screen

GOOD TO KNOW
— Devices may get warm while in use; this is completely normal and they will gradually cool down again after they are turned off.

— We strongly recommend using cable protection channels to keep stray power and USB cables away from little hands.
Touchscreen

Table Top
1

TOUCHSCREEN

HDMI IN

USB

POWER

POWER FOR COMPUTER

HDMI

WINDOWS 10 MINI COMPUTER

Touchscreen Table Top
INSTRUCTIONS FOR USE
— Connect to the Internet to download your Lumo Play software from www.lumoplay.com, install it and register the software.

— Follow the instructions that came with your touchscreen to install the touchscreen in a table top position. Plug your touchscreen into the power outlet.

— Place your Windows 10 computer where it will be stored permanently. Turn it on. Connect to the Internet. Connect a wireless keyboard and mouse to the computer. Connect the computer to the touchscreen using an HDMI cable.

— Connect the USB cable that came with your touchscreen to a USB port on your Windows 10 computer.

— Once the hardware is in position (see illustration 3) run the Lumo Play software and follow the installation wizard to calibrate the software and run a game.

ADVANTAGES FOR THIS SETUP
— Can detect users that touch the screen
— No need to recalibrate
— Perfect accuracy
— No shadows

DRAWBACKS FOR THIS SETUP
— No interactivity unless user is touching screen

GOOD TO KNOW
— Devices may get warm while in use; this is completely normal and they will gradually cool down again after they are turned off.

— We strongly recommend using cable protection channels to keep stray power and usb cables away from little hands.
Shopping Lists

Lumo Play doesn’t sell hardware, but we do test projectors and Windows computers frequently for the most common installation types.

If you are planning to hire an installer, we recommend that you contact them first. Professional installation services cost more than doing this yourself, but the results usually look a lot better.
The following Retail hardware is suitable for retail, museum, and event installations with normal/controllable ambient light.

Click here to shop!
Small Business

The following Small Business hardware is appropriate for schools, daycares, and small businesses who can control the lighting environment.

Click here to shop!
Portable System

The following information includes everything you need to use Lumo Play in a portable installation.

Click here to shop!