



USER MANUAL MÖBIL

1st Generation

User manual

Revision

English

April 2021



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Congratulations for purchasing a Lü!

This system was designed by the Lü team in Canada, which is on a mission to improve the world of education. We hope you will enjoy using it.

What is included

This system include one main module and five components:



Main module

Projector (WXGA 6500 lumens) and a 3D camera protected by a custom case



Two light brackets

Three LED projectors (RGBW 108w)



Two speaker brackets

300w speakers



One portable lifting tower



One set of cushions, fourteen components

Two remote controllers:

one remote controller for the projector
one keyboard remote for the Lü system

Technical specifications

Playground dimensions and specifications

Interactive screen

Maximum size: 19 ft (5.8 m) large x 10.1 ft (3.1 m) high

Must be installed on a flat, solid and as pale as possible

Playground

Centered in front of the interactive screen

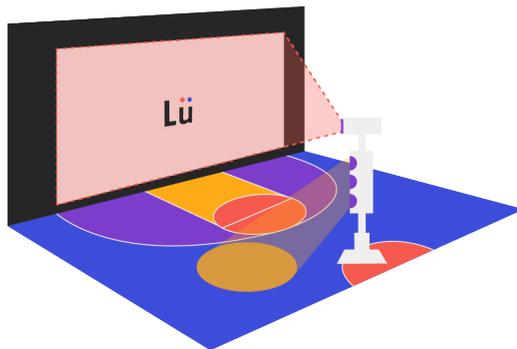
Recommended size: 30 ft (9 m) large x 20 ft (6 m) long

Minimum ceiling height: 10 ft (3 m)

Maximum ceiling height: 28 ft (8.5 m)

To optimize the immersive experience, ambient lighting must be controllable.

When the system is in operation, general lights should be turned off and no window should allow direct sunlight into the room.



Assembly

Preparing the site and home screen

01 Find the wall that will be used for the projection.

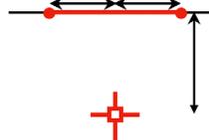
The wall must be flat, solid and as pale as possible.

Note : In doubt, you can send us a picture of the place you have in mind at support@play-lu.com.



02 Position the lifting tower.

Place the lifting tower at maximum 19 ft (5.8 m) from the wall and centered with the screen. The crank should point the opposite side from the screen for easier handling.



03 Secure the lifting tower in place.

Use the pivots on each of the four legs of the tower to stabilize it. Make sure the tower is perfectly vertical using the bubble level.

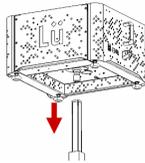


Assembly

Assembling the unit

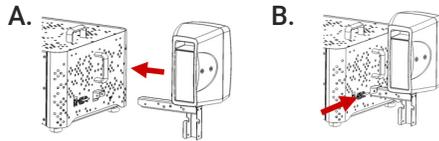
01 Install the main module on the stand

The pin underneath the main module has to be inserted inside the pole of the lifting tower. **Important** : Make sure you screw the lock bolt in place before you continue.



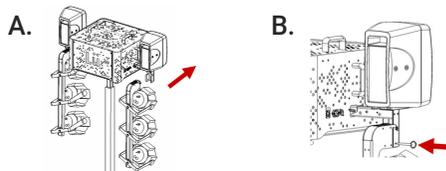
02 Install speaker brackets on main module

Lock brackets in place using locking pins.



03 Install light brackets on the main module

Lock brackets in place using the locking pin. Position light fixtures to light the floor between the screen and the lifting tower.



04 Connect all cables from speaker and light brackets to the main module

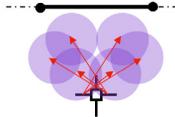
Follow the ID codes and colors to connect cables to the right socket.

Assembly

Assembling the unit

05 Focus light fixture positions

Focus the fixtures so the light is directed evenly on the floor and not on the projection screen.



06 Fix the power cable to the main unit

Tie the cable to the top of the lifting tower main shaft using the Velcro strap. When you lift the tower, the cable will stay close to it.

07 Turn the system on and make sure all components are working

Plug the power cable, turn on projector using the projector controller and wait for the system to boot. Make sure the volume, the lights, the computer and the projector are working properly. Set the volume at 50% behind the speakers.

Note : The computer will turn on as soon as you connect the power cable.

08 Lift the tower to its final position

Use the crank to raise the tower to the final position, which should be 6 feet (1.8 m) from the ground to below the lowest light.



Assembly

Installation of protective cushions

- 01 First, place the two thin, triangle-shaped cushions under the legs of the lifting tower, velcro-side on top.



- 02 Place the rectangular shaped cushions on each of the legs of the lifting tower, making sure that the velcro is securely attached to that of the cushion below.



- 03 Place the foldable rectangular cushions around the lifting tower. The first cushion to be placed has small slots to fit well at the bottom of the lifting tower.



- 04 Place the corner cushions between each rectangular cushion.



Assembly

Installation of protective cushions

- 05 Then place the second foldable rectangular cushions on top of the first one and make sure that it is secured with velcro.



- 06 Complete the cushions installation by placing the square shaped cushion around the lifting tower and on top of the last cushion installed in step 5.



- 07 Installation is completed

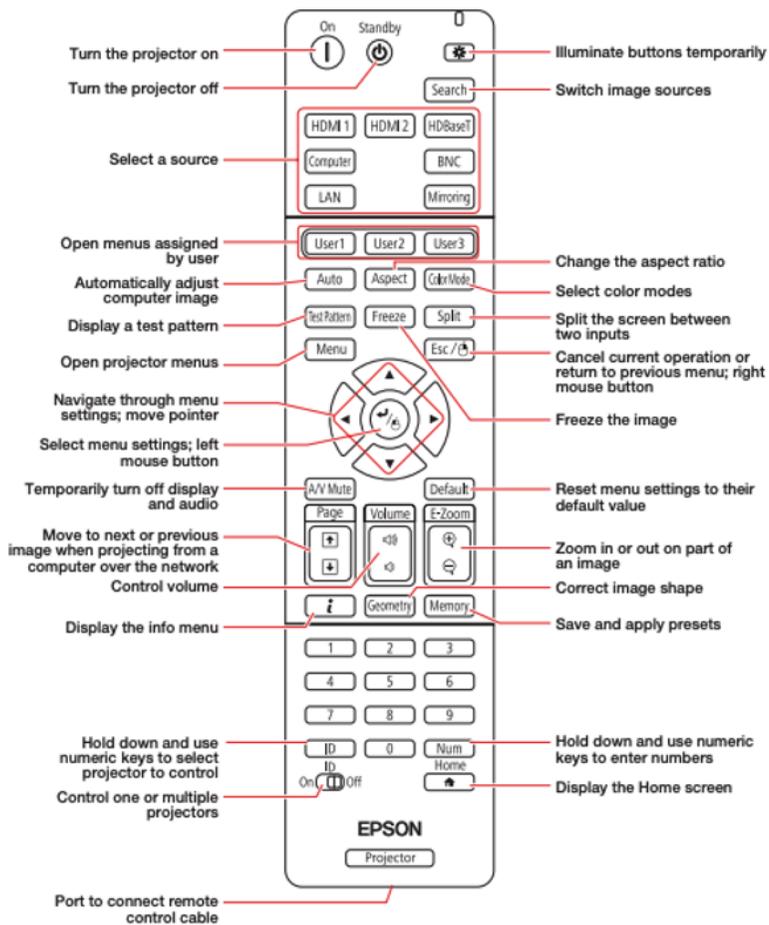


How it works

How to turn the projector ON

To turn the projector ON, press the "ON" button using the projector remote controller and wait for the image to be displayed.

Remote control for the light projector



How it works

Keyboard remote

- 1 Left click
- 2 Right click
- 3 Mute
- 4 Web browser
- 5 Open "Documents"



Advanced shortcuts with the keyboard

- 01 Press « Win + D » to access the Windows desktop.
- 02 Press « Alt+F4 » to close the Lü application.
- 03 Press « Alt + Tab » to switch between open applications.
- 04 Press « Win » to open Windows taskbar.
- 05 Press the spacebar to turn ON the computer (not available on every computer).

How it works

Preparing the screen

01 Mark the 4 corners of your projection location on the wall

The ideal position is to set the bottom of the screen at 6 in (15 cm) from the floor. The maximum width should be 19 ft (5.8 m). The height should be 10.68 feet (3.25 m).

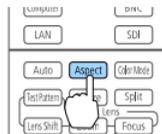


Important : Always respect a ratio of 16:9 for your screen.

02 Adjust the image shape

Make sure the projector is turned on with the right input (HDMI1).
You should be able to see the system's interface on the screen.

- A. Press Aspect button on the remote controller and set the projector to FULL.



- B. Adjust the zoom and focus to get optimal size using the projector remote controller. (ZOOM/FOCUS)



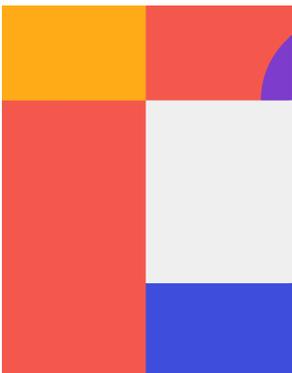
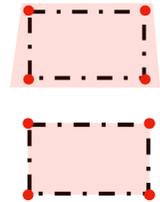
How it works

Preparing the screen

- C. Press the LENS SHIFT button on the projector remote controller to move the projection.



- D. Map the projected image on your 4 markers using the GEOMETRY BUTTON/QUICK CORNER



How it works

Calibration

The calibration calibrates the camera which is used to detect the balls thrown on the wall. Once the system is calibrated, it is not necessary to repeat the operation for each use if you don't move the mobile unit. At the slightest movement of the camera, a calibration will be necessary for a good detection.

Calibration can also be performed when balls detection on the wall is not accurate or when there are false detections. To calibrate the system, follow the steps below:

01 Select the gear icon from the home page.



02 Click on the button.

Start

03 Press the "I" button on the Lü keyboard remote to display the camera's stream. Move the position of the stand to adjust the camera feed with the projection surface. Make sure the red area is outside the green rectangle.

Note : The red area represents the undetected area of camera detection.



04 Choose the calibration method that suits you best: Automatic or Manual.

05 If the calibration fails, try the other method.

06 After the calibration is complete, select Test mode. Throw a few balls at different places in the projection to test the detection accuracy.

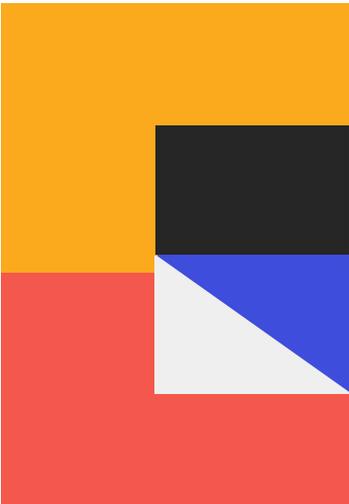
How it works

Calibration

07 Press « Esc », then « OK » to return to the home page.

08 In case of technical difficulties, contact Lü support (see page 19 for more details).

Note : For more details on calibration, check out the “Learn to calibrate the camera” tutorial in the Help Center.



How it works

How to turn ON your Lü

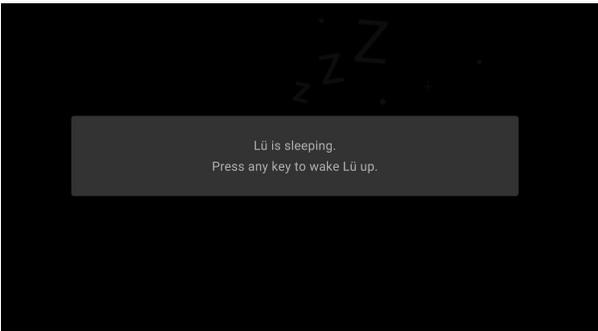
01



02



03



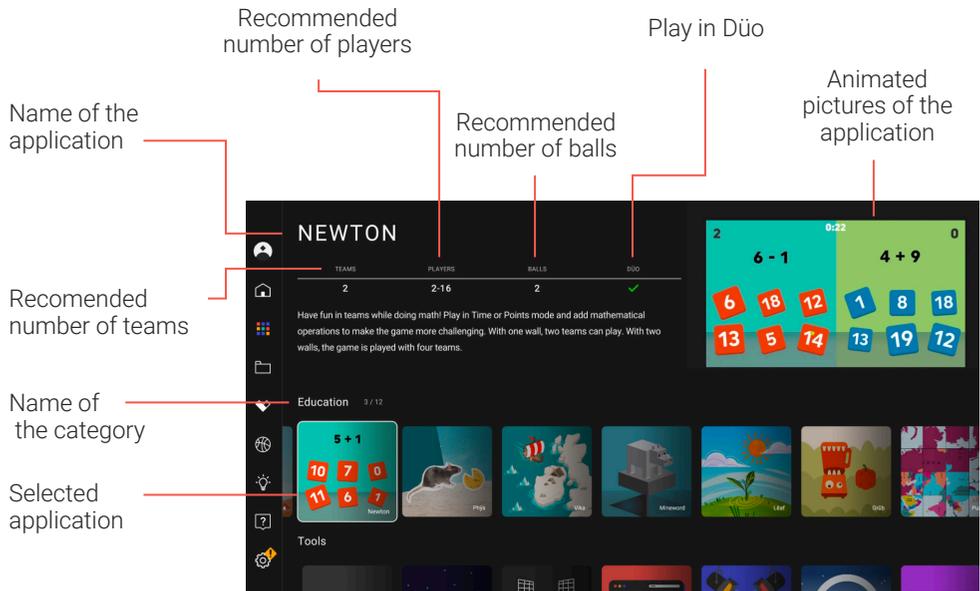
01 Turn on the projector

02 Turn on the keyboard

03 Wake the application

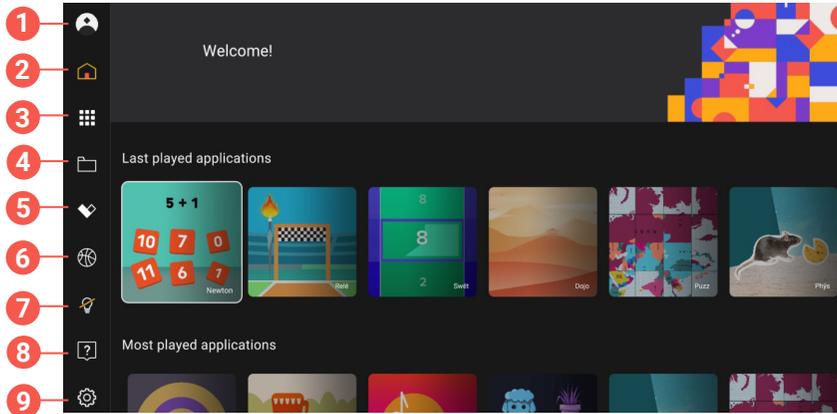
How it works

Home page



How it works

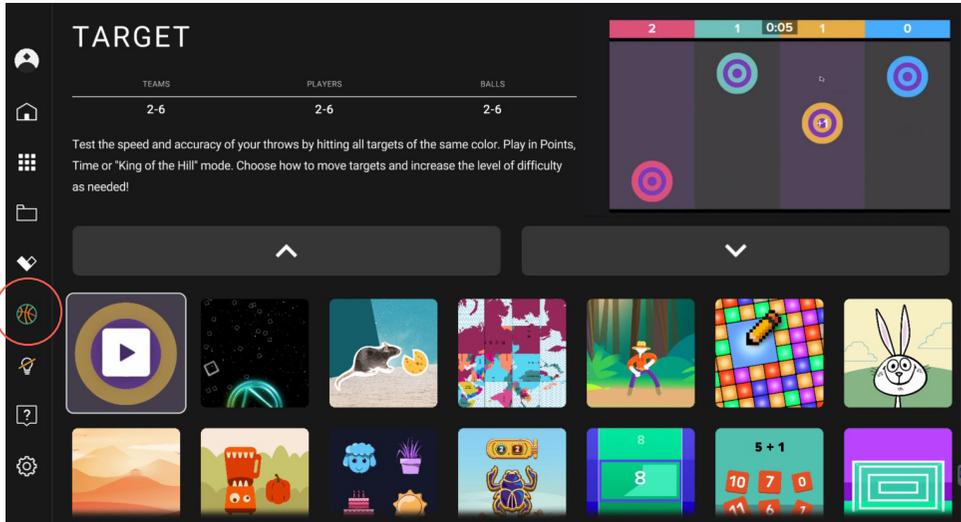
Home page



- 1 Account**
Account setting.
- 2 Home**
Home of the Lü-Community.
- 3 Applications**
Find all of our activities here.
- 4 My content**
Sign into your account to view the content you created.
- 5 My likes**
Sign into your account to view your favorite content.
- 6 Free play**
Free Play mode allows you to choose an application by throwing a ball.
- 7 Light control**
Turn the system's lights on and off.
- 8 Help Center**
Tutorial and technical support.
- 9 Settings**
Access general settings of the application. Choose the games you want to play and access the system's status.

How it works

Home page



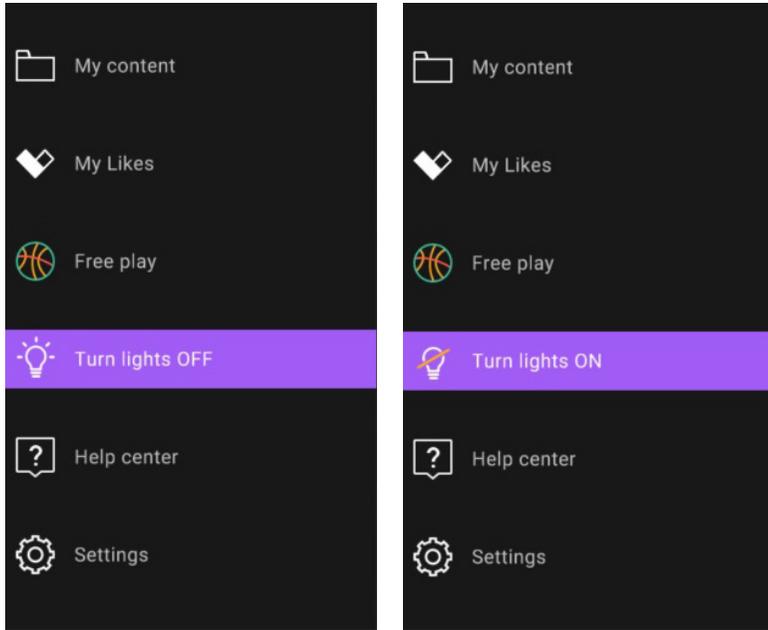
Free Play mode

Free Play mode allows the player to select an application without using the keyboard remote. Throw a ball on the desired app and choose the game options to start the game.

You can activate this mode by selecting the basketball icon located in the left-hand side panel of the home page.

How it works

Light control

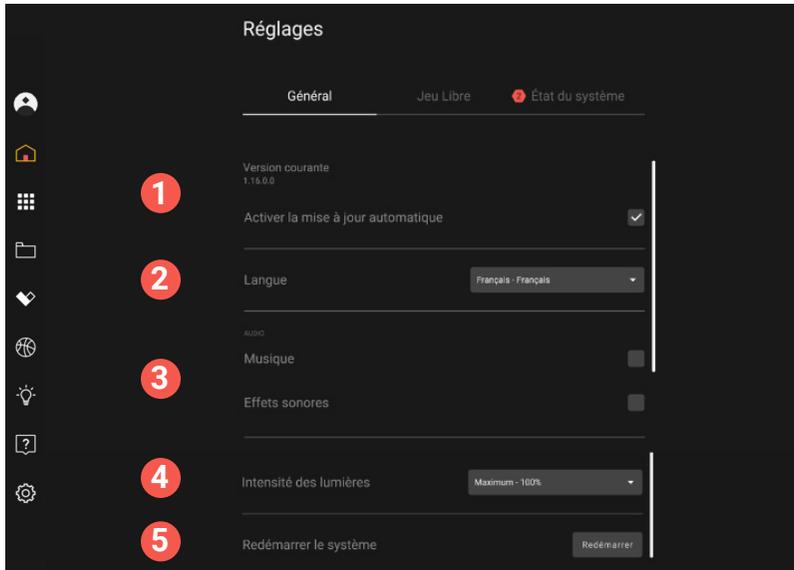


Turn ON and OFF the lights

You can turn ON and OFF the lights of the light module by selecting the bulb icon. You can also press the F1 key when your selection is on the home page.

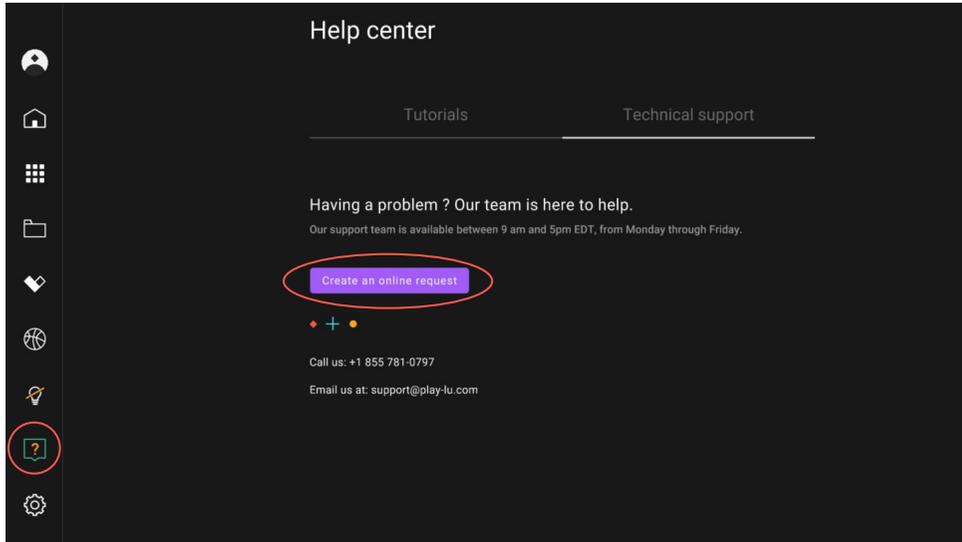
How it works

Settings



- 1 Current version** : Determine if your system is up-to-date. When a new version of the system is available, you can download it manually or wait overnight for the system to update automatically if the "Enable automatic update" option is checked. You need an Internet connection to update your system.
- 2 Language** : Change the language of the operating system.
- 3 Audio** : Enable or disable music and sound effects for applications.
- 4 Light Intensity** : Adjusts the light intensity between 0% and 100%..
- 5 Restart the system** : Restart the system if you experience technical difficulties.

Troubleshooting



When you are having technical difficulties with your Lü, select the Help Center icon from the left-hand side panel. Then choose the method that works best for you to contact the support team.

On this page, you have the choice between :

- 01 Creating a support request directly from the Lü application by clicking on "Create an online request"
- 02 Calling us at the number indicated
- 03 Emailing us at support@play-lu.com

How it works

Lü Community – CMS

Creative and passionate teachers are active everyday around the world to engage students in learning. Lü now thrives to connect them all. To achieve this goal, we're proud to introduce the Lü Community!

Discover

Lü Community is a peer based, free and open online platform that allows teachers and other Lü users from across the globe to discover original content created by other Lü enthusiasts. Simply log on to your profile and select "Discover" to open up your Lü experience to a myriad of new possibilities! Content sharing is entirely optional and it is possible for users to like and duplicate content created by others. Also discover Lü's ultimate Application Playbook by joining the Community!

Share

Share content with the community so other users can instantly access it on their Lü systems. Be part of a new synergy between educators, coaches and leaders around the world to enable kids to develop their full potential.

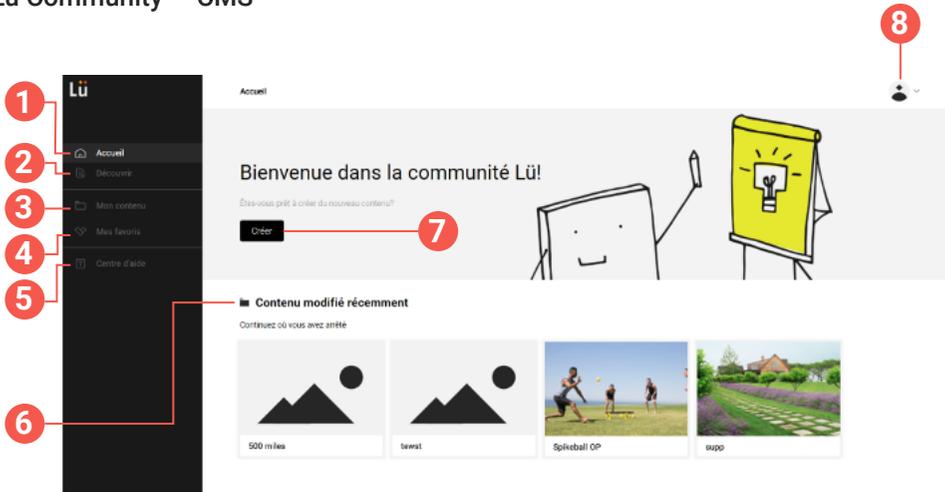
Create

Create your own content and customize existing one to use in a variety of Lü applications on your system. Collaborate with other departments to include cross curriculum pieces into your activities and instantly access your content in the "My content" tab of your Lü system interface.

To start creating your own content now, go to www.lu-community.com.

How it works

Lü Community – CMS

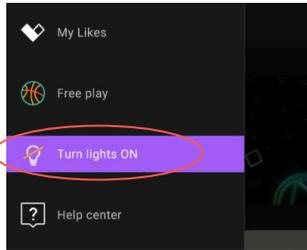


- 1 Go to the home page.
- 2 Discover the content from other members..
- 3 View the content you created.
- 4 View the content you have liked.
- 5 Go to the Help Center if you need technical assistance.
- 6 Quickly access the content you recently edited.
- 7 Create new content.
- 8 Access your settings.

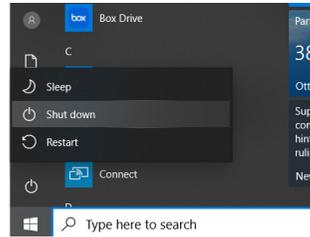
How it works

How to turn your Lü OFF

01



02



03



04



05



01 Turn off the lights

02 Turn off the computer (using the "Win" button from the keyboard remote)

03 Turn off the projector by pressing "Standby by" twice

04 Unplug the power cord

05 Turn off the keyboard remote

How it works

Disassembly

01 Remove the protective cushions.

02 Lower the lifting tower using the crank.

Make sure the cable is taut when lowering. You should leave a very small amount of loose in the cable when unlocking the red safety pins. Be sure to keep one hand on the crank at all times.

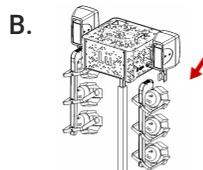
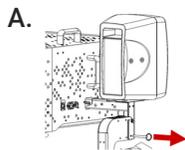


03 Disconnect all cables.

Disconnect the cables connected to the speakers and the sconces.
Disconnect the power cable under the main module.

04 Remove the light brackets.

First unlock the light brackets by removing the safety pin.

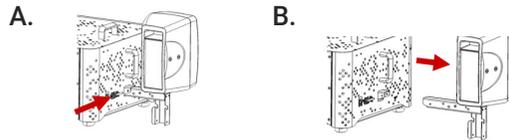


How it works

Disassembly

05 Remove the speaker brackets.

First unlock the speaker brackets by removing the safety pin.



06 Remove the main module from the lifting tower.

Using the handles on the side and top of the main module, gently lift the module. Two people are required for this step to avoid any injuries or equipment breakage.



07 Remove the legs from the lifting tower.

Use the pivot on the four legs to loosen the lifting tower, then replace the legs in the appropriate holes from their transport position.

Technical specifications



Main module

Lifting tower

Cushion kit

Installation position	On the lifting tower	19' (5.8m) centered in front of interactive screen	Over the lifting tower
Size (L x W x H)	23 x 28 x 16 in 58 x 71 x 40 cm	65 x 14 x 14 in 166 x 36 x 36 cm	2 bags : 36 x 28 x 18 in 92 x 71 x 46 cm
Weight	72 lbs (32,6 kg)	73 lbs (33 kg)	32 lbs (14,4 kg)
Power consumption	888 W	N/A	N/A

Technical specifications



**Light
bracket**



**Speaker
bracket**

**Installation
position**

On the speaker
bracket

On the main
module

**Size
(L x W x H)**

2 brackets :
37.5 x 11 x 13 in
95 x 28 x 33 cm

2 brackets :
19,5 x 15 x 10 in
50 x 38 x 26 cm

Weight

22 lbs (9,9 kg)

32 lbs (13,2 kg)

**Power
consumption**

Included in main
module specs

Included in main
module specs

Technical specifications

Optional transport cases

	Case 1	Case 2
Included components	Main module, speakers and remotes	Light brackets
Size (L x W x H)	52 x 28 x 26 in 132 x 71 x 66 cm	45 x 16.5 x 25 in 114 x 42 x 64 cm
Weight	192 lbs (87,2 kg)	89 lbs (40,6 kg)

Recommended maintenance

Cleaning the air Filter

You need to clean the projector's air filter in the following situations:

- 01 The filter or vents get dusty.
- 02 You see a message telling you to clean it.
- 03 The projector's Filter light flashes orange.

To clean the filter, follow the steps below :

- 01 Turn off the projector, wait for the projector to beep, and unplug the power cord.
- 02 Slide the air filter cover latch and open the air filter cover.
- 03 Pull the air filter out of the projector.
- 04 Tap each side of the air filter 4 to 5 times to shake off any excess dust.
- 05 Vacuum the front of the air filter (the side with the tabs) to remove any remaining dust. **Note:** If dust is difficult to remove or the air filter is damaged, replace the air filter.
- 06 Place the air filter back in the projector as shown and push gently until it clicks into place.
- 07 Close the air filter cover.



Getting rid of the dust

Once a year or two, make sure to clean up the equipments to get rid of the accumulated dust. Remove dust from the computer using a can of compressed air. Check that the air vents on all devices are not blocked by any dust accumulation.

About this guide

The Lü Interactive System User's Manual has basic product information such as safety and operation.

Disclaimer

The information and specifications contained in this user manual are subject to change without notice.

Safety instructions

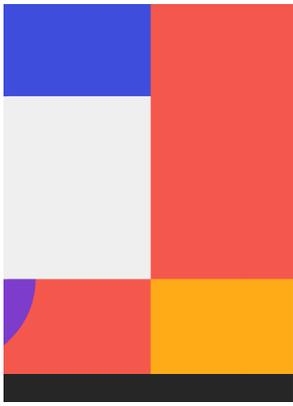
- 01 Read and keep these instructions.
- 02 Always connect the product to a grounded circuit
- 03 Do not use this apparatus near water.
- 04 Clean only with a dry cloth.
- 05 Do not block any ventilation openings. Install in accordance with the manufacturers instructions.
- 06 If mounting the product overhead, make sure there is adequate support for the product's weight and always secure the product using a safety cable.
- 07 Only use attachments/accessories specified by the manufacturer.
- 08 Unplug this apparatus during lightning storms or when unused for long periods of time.
- 09 Do not use Lü system in an environment where temperatures exceed +40°C (104°F).
- 10 Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
- 11 To completely disconnect AC power from this apparatus, the power supply cord must be unplugged.

Safety instructions

- 12 Do not expose this apparatus to dripping or splashing and ensure that no objects filled with liquids.
- 13 Lü loudspeakers are easily capable of generating sound pressure levels sufficient to cause permanent hearing damage to anyone within normal coverage distance. Caution should be taken to avoid prolonged exposure to sound pressure levels exceeding 90 dB.



IMPORTANT : Do not modify this product! Changes or modifications not expressly approved by the manufacturer could void the user's warranty.



Lü limited warranty

One-year limited warranty on system

What Is Covered: Lü Interactive Playground Inc. ("Lü") warrants to the original purchaser of the system this limited warranty statement that the product will be free from defects in workmanship and materials for a period of one (1) year from the date of original purchase.

Three-year limited warranty on projector and 90-day limited warranty on lamp

What Is Covered: Lü Interactive Playground inc. ("Lü") warrants to the original purchaser of the Epson projector product enclosed in Lü system, with this limited warranty statement that the product will be free from defects in workmanship and materials for a period of three (3) years from the date of original purchase. This limited warranty applies only to the projector and not to the projector lamp, which carries a limited warranty period of ninety (90) days from the date of original purchase. For warranty service, you must provide proof of the date of original purchase.

Three-year limited warranty on the computer

Lü Interactive Playground inc. ("Lü") warrants to the original purchaser of the Intel or Dell computer enclosed in the Lü system for a duration of three years from the date of original purchase. The warranty cover the parts, but not the labor or service needed on site for the last two years of warranty.

Complete documentation

For more detailed information about some select Lü components:

Video projector - Epson Pro G7000w

<https://files.support.epson.com/docid/cpd5/cpd51161.pdf>

Loudspeakers - DB technologies MINIBOX K 300

<https://www.dbtechnologies.com/en/products/mini-box/minibox-k-300/>

PC computer - Dell OptiPlex 3080 Micro:

https://www.dell.com/en-ca/work/shop/dell-desktops-workstations/opti-plex-3080-micro-desktop/spd/optiplex-3080-micro_nuc6i5syh.html

Contact information

For support, any questions or comments on this product:

1-855-781-0797

support@play-lu.com

202-707, rue Saint-Vallier E.

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G1K 3P9

Lü

