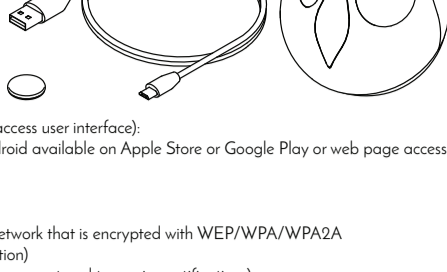# Thanks for choosing Ulo

Please read the user guide carefully before using Ulo.
Warning : Failure to follow the instructions and warnings could result in fire, electric shock, other injury or damage to your Ulo. Ulo is designed for indoor use only.

Package contents

- 1 Ulo
- 1 Neodymium magnet
- 1 Micro USB cable type B
- 1 Protective pouch

Minimum requirements

Mobile device, computer or tablet (to access user interface)
- Native mobile apps for iOS and Android available on Apple Store or Google Play or web page accessible from any web browser

Networks and service:
- 2.4GHz Wi-Fi (IEEE 802.11 b/g/n) network that is encrypted with WEP/WPA/WPA2A
- Bluetooth BLE 4.1 (only for configuration)
- E-mail account (required to create an account and to receive notifications)

Power supply:
- AC power adapter delivering 5V-2A certified CE or FCC (not provided) to be plugged into the USB cable
- OPTIONAL: 3 rechargeable NimH batteries LR06 minimum 1900 mA (not provided): Ulo can be constantly plugged to a wall socket

Product overview
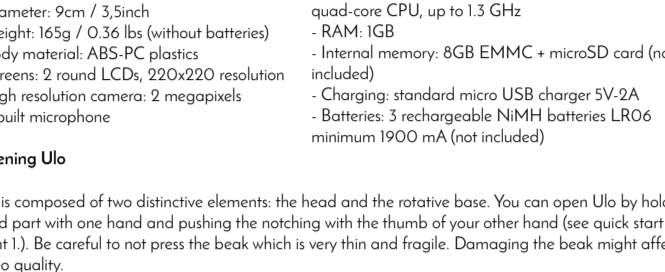
Technical specifications

- Height: 9cm / 3,5inch
- Diameter: 9cm / 3,5inch
- Weight: 165g / 0.36 lbs (without batteries)
- Body material: ABS-PC plastics
- Screens: 2 round LCDs, 220x220 resolution
- High resolution camera: 2 megapixels
- Inbuilt microphone

- Processor: Qualcomm snapdragon 212 series, quad core CPU, up to 1,3 GHz
- RAM: 1GB
- Internal memory: 8GB EMMC + microSD card (not included)
- Charging: standard micro USB charger 5V-2A
- Batteries: 3 rechargeable NiMH batteries LR06 minimum 1900 mA (not included)

Opening Ulo

Ulo is composed of two distinctive elements: the head and the rotative base. You can open Ulo by holding the head part with one hand and pushing the notching with the thumb of your other hand (see quick start guide point 1). Be careful to not press the beak which is very thin and fragile. Damaging the beak might affect the video quality.

Installing batteries (optional)

Ulo works with 3 rechargeable NimH batteries (LR06) minimum 1900 mA (see quick start guide point 2. and point 3.). These rechargeable batteries are not provided but can easily be found in any supermarket.

Please read, keep and follow these instructions:
- Use 3 new rechargeable NimH batteries CE or FCC certified. Battery polarity must be observed.
- Never use non-rechargeable batteries, they will overheat if placed in Ulo. When they overheat the seals will break, causing the batteries to leak or explode. If the batteries explode the chemicals will spread all over the immediate area, which is serious health hazard. In extreme cases, the batteries may burst into flames.
- Do not remove the NimH batteries to recharge them. Simply plug Ulo to a power source.
- Mu Design recommends certain batteries brands that have been tested with Ulo on http://support.ulo.camera. Using other brands is at your own risk, Mu Design cannot be held responsible if you decide to use other batteries.

All rechargeable batteries have a limited lifespan, and eventually they may need to be serviced or recycled. These tips can help you maximize batteries life in your Ulo.
- Turn off your product when it's not in use.
- Avoid charging or storing at extreme temperatures (below 0°C / 32°F or above 45°C / 113°F).

Setting up Ulo

1. Connect Ulo to a power source using the micro USB cable (see quick start guide point 4.) plugged into any AC power adapter delivering 5V-2A (not provided). If you don't have one at home, such adaptors are available online or at any reputable electronics store.
2. Wait for Ulo to be happy and place Ulo upside down (see quick start guide point 5.).
3. Use option a or b to configure your Ulo :
   a. Download the Ulo app on your smartphone or tablet by searching on your apple store or google play.
   b. Connect your computer or device to Ulo Wi-Fi (SSID: ULO - Password: Mu Design), launch your web browser and go to the web page: http://setup.ulo.camera
4. The app or the web page will guide you through the rest of the configuration process.

Please note that you will have to turn Ulo upside down each time you wish to access the settings.

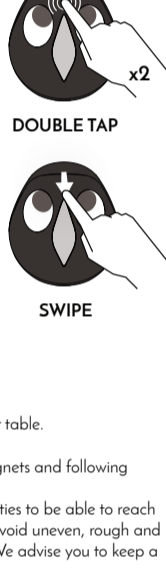**Modes & Taps**

Modes
You can set Ulo to one of these modes:
- Default mode*:
   a. Standard mode: Ulo is awake, its eyes can display animations. Ulo does not record activity.
   b. Spy mode: Ulo is awake, its eyes can display animations. Ulo records every movement and pushes notifications (if configured).
- Alert mode: Ulo is asleep, its eyes remain black. Ulo records every movement and pushes notifications (if configured).

*By default, Ulo is set in standard mode but you can swap to spy mode if you decide to force recording.
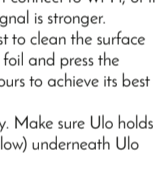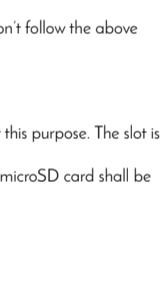
Taps
Ulo reacts to different type of taps on its forehead.
- Short taps (≤ 1 second)
   a. A single tap allows you to keep Ulo awake or to restore sleeping mode. By default, Ulo enters sleeping mode after 3 seconds if no movement is detected.
   b. A double tap activates or deactivates the alert mode.
- Long taps
   a. A long single tap equal or greater than 2 seconds (≥ 2 sec.) enables you to switch Ulo on or off.
   b. A long single tap equal or greater than 15 seconds (≥ 15 sec.) enables you to perform a factory reset. A reset will delete all your settings, you will need to reconfigure your camera. You are strongly advised to back up your Ulo before completing this step.
- Slides
   A slide on Ulo's forehead stands for a caress. Ulo will display a happy mood.

TAP

DOUBLE TAP   x2

SWIPE

Placing or mounting Ulo

Ulo is designed for DIY installation. Ulo can simply be placed on a shelf, countertop or table.

You can also install Ulo on a wall by using the provided self-adhesive neodymium magnets and following those instructions (see quick start guide point 6.):
1. The adhesive on the backside of self-adhesive magnets requires certain surface qualities to be able to reach their full adhesive potential. The wall surface needs to be free of dust, clean and dry. Avoid uneven, rough and crumbly surfaces. Be careful with painted walls. Make sure the paint doesn't peel off. We advise you to keep a protection underneath Ulo for few days, just in case it falls.
2. Make sure the location you have picked is close enough to a wall outlet. Try holding Ulo where you want it with the power cable and AC adapter plugged in. You should have a little slack just in case.
3. Check your Wi-Fi coverage by moving your live feed with the Ulo app. If the Ulo can't connect to Wi-Fi, or if the video stream is interrupted, you might need to choose another location where the signal is stronger.
4. Once your Ulo is successfully streaming video, it's time to install your magnet. It is best to clean the surface prior to use with a suitable detergent and wait until it is fully dry. Remove the protective foil and press the adhesive part onto the wall for few minutes. Thereafter, the adhesive needs to dry 24 hours to achieve its best adhesive performance.
5. After 24 hours, you can place your Ulo. Rotate its base to be able to place it vertically. Make sure Ulo holds properly before removing your hand. In the early days, place a protection (example: pillow) underneath Ulo just in case it falls.

The use of magnets is at your own risk. Mu Design cannot be held responsible if you don't follow the above instructions.

Inserting a microSD card (optional)

If you want to back up your files, you can insert a microSD card in the slot intended for this purpose. The slot is located in Ulo's back (see quick start guide point 7.):
1. Make sure you inserted the microSD card angled side first and label side down. The microSD card shall be sloped. Don't force, it won't lock into the slot.
2. MicroSD card must be class 10 and up to 128 GB.
3. Check if your microSD card is formatted to FAT 32.
4. If you need assistance please go to http://support.ulo.camera.

Safety instructions and warnings

Read all safety instructions and warnings prior to using this product. Improper use of this product may result in product damage, excess heat, toxic fumes, fire or explosion, for which damages will be your ('Purchaser') responsibility and not Mu Design, Sàrl ('Manufacturer').

Please read, follow, and keep these instructions:

Power sources
- Do not push any objects into the openings of Ulo unless consistent with the authorized operation of the device. Doing so can cause a fire or an electrical schock by shorting out interior components.
- The powering of Ulo must adhere to the power specifications (5V-2A) indicated for this product.
- Install Ulo close to an easily accessible power outlet. Do not install the equipment in a way that stretches or stresses the power cord.
- Secure the cable away from children's or pets' reach.
- Ulo must be disconnected from the supply power when inserting or removing batteries. Ulo only works with rechargeable NimH batteries. Using another type of batteries expose you to danger, batteries can leak or explode.
- Do not touch Ulo with wet hands while charging.

Environment
- Use Ulo at temperatures between 0°C and 35°C (32°F and 95°F).
- Keep your Ulo out of direct sunlight.
- Keep Ulo away from radiators and heat sources. Also, do not block cooling vents.
- Do not cover Ulo.
- Do not allow Ulo to come in contact with liquids.
- Do not use Ulo in areas with high humidity.
- Never use Ulo near water (e.g. near a bathtub, sink, laundry tub, fish tank, wet basement)
- Ulo is designed for indoor use only. Never use it outside.

Servicing/Disassembling
- Do not disassemble Ulo or attempt to service it, it may expose you to dangerous high voltage or other risks. Opening a sealed component or product will cancel its warranty.
- Only the head and base can be separated manually. Do not use any third-party object to separate head and base. The base can hold 3 rechargeable batteries (NimH only). None of the head's internal parts are user-replaceable, therefore, there is no reason to access the interior.
- Rechargeable batteries can be replaced once they have reached their end of life. You don't need to remove the batteries from Ulo when you want to recharge them. Only plug Ulo to a power source, Ulo will recharge the batteries.
- Putting any battery directly in the trash is dangerous for the environment. By servicing your product's battery through an authorized service provider, you can be sure it will be recycled with respect for the earth.

Carrying and handling
- Always carry Ulo within its protective pouch.
- Ulo's screens are not touch screens. Never touch them.
- Ulo's beak is very fragile. This element is very thin to allow light to pass, make sure you don't press it when you manipulate the owl. The beak could deform and this could affect the video quality.
- Take care not to drop Ulo. Do not throw it either.

Care
- Always unplug the power before cleaning Ulo.
- Do not submerge your Ulo in water or any other liquid.
- Do not use aerosol cleaners of any kind.
- Use a lint-free cloth to gently dust it.

Miscellaneous
- Ulo is not a toy. Do not allow children to play with it.
- Ulo is not intended for use by persons with reduced physical, sensory or mental capabilities, or lack of experience and knowledge.
- Do not put Ulo in mouth.

Software releases

Ulo's software will be upgraded in the future. Please follow these instructions before launching a software update:
- Make sure Ulo is plugged to a power outlet and batteries are fully charged.
- Do not touch Ulo while the update is ongoing, the device might overheat.

Ignoring these instructions might cause product damages and will void warranty. You are strongly advised to backup your Ulo before completing this step.

Privacy

Be aware that law and regulation can restrict the use of your Ulo. You, not Mu Design, are responsible for ensuring that you comply with any laws that may apply to the use of Ulo. We advise you to inform your family, relatives and home employees, if any, that you have installed a camera. Ulo is a camera designed for indoor personal domestic use. To protect privacy, avoid installing your Ulo camera overlooking the street or your neighbors' property.

Warranty

Ulo comes with a two (2) years warranty from the date of original retail purchase by the end-user purchaser.

This warranty does not cover damage cause by accident, misuse, abuse, neglect, excessive moisture, lightning, power surges, other acts of nature, unauthorized product modification or repairs, or failure to follow the instructions outlined in the user manual and quick start guide. The maximum liability of Mu Design shall not exceed the actual purchase price paid by you for your Ulo. In no event shall Mu Design be liable for special, incidental, consequential or indirect damages.

Declaration of conformity

Federal Communication Commission Interference Statement

This equipment 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 equipment 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 equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:
- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC Caution: To assure continued compliance, any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment. (Example - use only shielded interface cables when connecting to computer or peripheral devices).

FCC Radiation Exposure Statement

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 0.5 cm / 0.2 inch between the radiator and your body.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

The antennas used for this transmitter must be installed to provide a separation distance of at least 0.5 cm / 0.2 inch from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.

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 interfe rence, and (2) This device must accept any interference received, including interference that may cause undesired operation.

Need help?

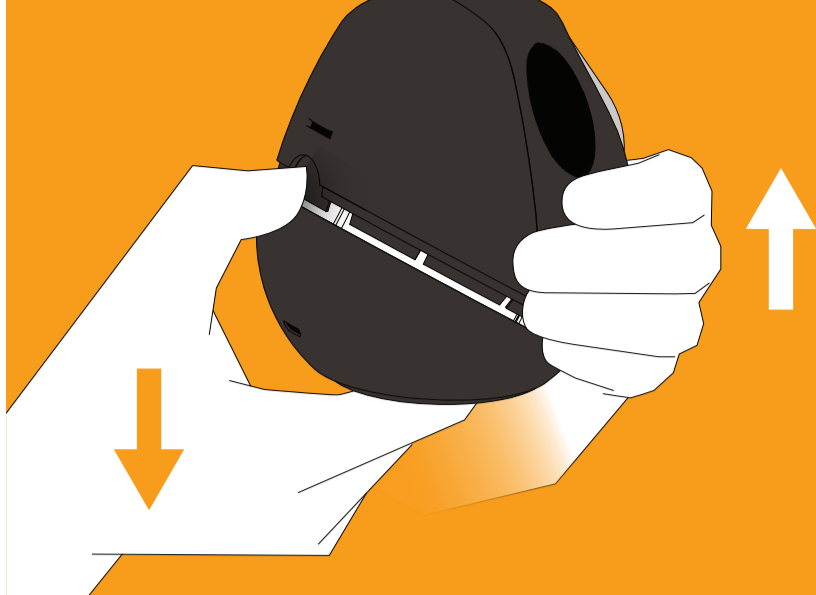For further information or additional help in solving problems related to your Ulo camera, visit our help center at http://support.ulo.camera
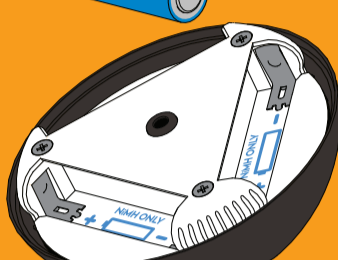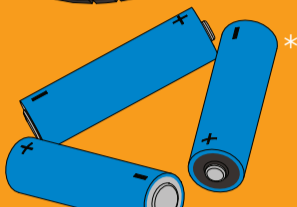or contact
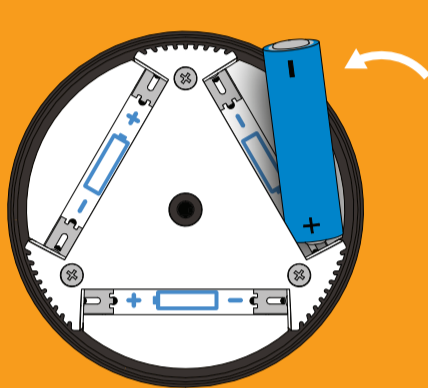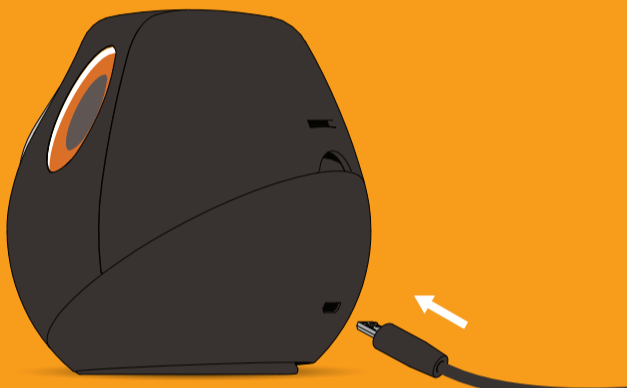support@mu-design.lu
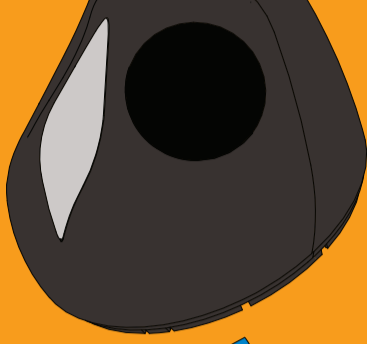
1. How to open Ulo
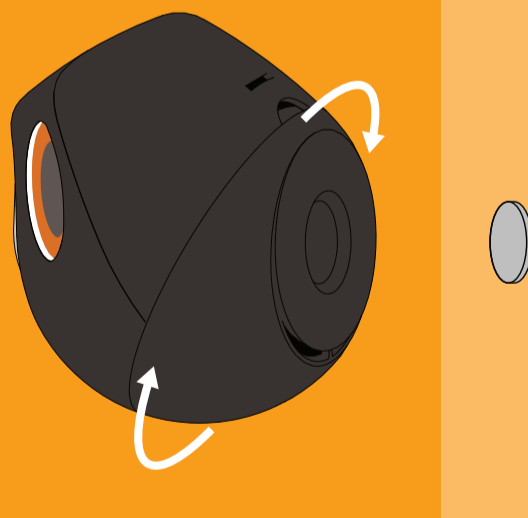

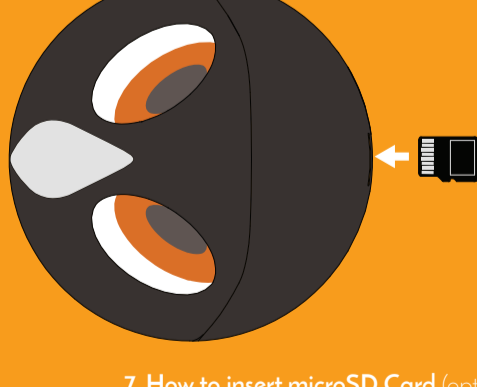2. An open Ulo.

3. How to insert NimH batteries (* optional)

4. How to insert USB cable

5. Once Ulo is happy,
turn it upside-down to enter configuration mode.
Download a mobile app or go to http://setup.ulo.camera

6. How to rotate the base to place Ulo on a wall

7. How to insert microSD Card (optional)
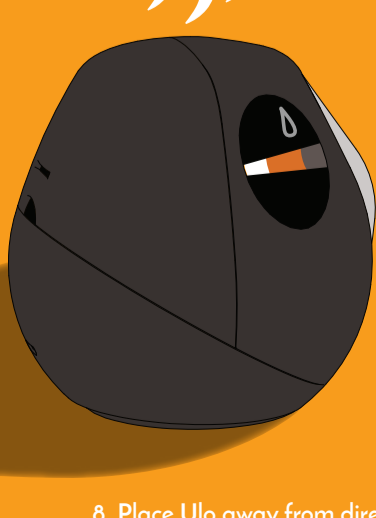
8. Place Ulo away from direct sunlight, it might overheat