

## Lumos – A Next Generation Bicycle Helmet

### Bicycle Helmet and remote owner's manual

product name: Lumos Kickstart Helmet  
Model number: L1101L  
C.P.S.C. 16 CFR Part 1203  
United States Federal Safety Standard for Bicycle Helmets  
(Consumer Product Safety Commission)  
CE, EN1078:2012 +A1:2012  
(European Safety Standard)  
Patent Pending

This helmet is designed to protect impact cause by collision of head with an obstacle while cycling and roller skating, it has passed EN1078:2012+A1:2012 to show conformity to the EHSR of Regulations (EU) 2016/425.

EU Type examination conducted by:  
Shenzhen Anbotek Compliance Laboratory Limited

product name: Lumos Remote  
Model number: LRELIN-AO

### IMPORTANT

#### PLEASE READ CAREFULLY BEFORE USING YOUR NEW HELMET

##### Protection

The safety Helmet provides excellent durability and integrity.  
However, the protective capability may diminish over time due to wear and age.

##### Warranty

Lumos warrants all products sold by Lumos to be free of defects in material and workmanship for a period of one (1) year from the date of purchase unless otherwise specified on the product. If a product is found to be defective by Lumos, in its sole discretion, Lumos's only responsibility will be to replace the defective product. Lumos will not be responsible for any costs, losses or damages incurred because of the loss or use of any of its products, and Lumos specifically disclaims all claims for consequential and incidental damages. This limited warranty is subject to several important restrictions:  
This limited warranty only applies to products purchased directly from Lumos or from a Lumos Authorized Reseller.  
This limited warranty is valid only for the original purchaser of a product, and it cannot be transferred to another person upon the sale, lease, or transfer of the product.  
This limited warranty does not cover normal wear and tear.  
This limited warranty does not apply to anything other than defects in the manufacturing and workmanship of the product.  
The limited warranty is waived if you seek to repair the product using anything other than approved Lumos products and services, or if you seek to combine the product with any third party product (like sealants, cameras, or custom helmet pads).

If, upon its inspection, Lumos discovers that you have modified, changed, or altered the product in any way, this limited warranty is waived.  
Lumos gives no warranty regarding the life of the batteries used in its products. Actual battery life may vary depending on a number of factors, including, but not limited to, the configuration and usage of a product.

Your use of our products is at your own discretion and risk. You will be solely responsible for (and Lumos disclaims) any and all loss, liability or damages resulting from your use of our products, including loss of life, personal injury, or the loss of or damage to computer, mobile device, and all other property. Lumos does not guarantee or promise any specific level of performance or battery life associated with the use of its products or any feature of them.

ALL WARRANTIES IMPLIED BY STATE LAW, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE HEREBY LIMITED TO THE DURATION OF THE LIMITED WARRANTY. SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATION MAY NOT APPLY TO YOU. WITH THE EXCEPTION OF ANY WARRANTIES IMPLIED BY STATE LAW AS HEREBY LIMITED, THE FOREGOING LIMITED WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES, GUARANTEES, AGREEMENTS AND SIMILAR OBLIGATIONS OF MANUFACTURER OR SELLER.

### User Instructions

#### Warnings:

**For use in non-motorized recreational pedal cycling only. No helmet can prevent against all injuries. Serious injury or death may occur while cycling even with a helmet. Lumos makes no claim that this helmet will eliminate all possibilities of injury.**

**Lumos lights are designed to be a supplement and NOT a replacement to regular bike mounted front and back lights. Certain states, cities, and counties have laws that require cyclists to have bike mounted front and back lights at all times. Please ensure that you are aware of, and comply with your local laws.**

**Lumos is designed to be a supplement, and NOT a replacement to hand signals. Please continue to give hand signals while cycling on the road. While we designed the "hard brake" and turn signals to be as recognizable and intuitive as possible, we make no claim that motorists or people around you will recognize what they mean, or that they will see it. Having lights is good practice, but is no guarantee against preventing an accident or collision.**

**When activating the turn signal, glance at the remote to ensure that you activated the correct turn signal.**

**Activating the wrong turn signal or leaving your turn signal on can be very hazardous and can potentially increase the risk of a collision due to the miscommunication. After completing your turn, also be sure to turn the turn signal off.**

**This helmet is not designed for motor vehicle use and not for sports other than those for which it was certified. Every time you use this helmet check that nothing is badly torn, worn, missing, or out of adjustment. This helmet should not be used by children while climbing or doing activities when there is a risk of the child hanging himself or herself. For proper fit, follow the instructions below.**

### INSTALLATION Instructions

#### Attaching the remote mount to your handlebars:

- 1) Attach the mount to your handlebar using 2 silicone rubber bands. We've provided several bands of various sizes to accommodate different handlebar sizes. Ensure that the mount is securely attached to your handlebar.
- 2) Place the remote on the mount and twist to lock it in place.

### Using the helmet

#### Turning the helmet on/off + Selecting the flashing mode:

To turn off, press and hold the power button  
To change the flashing mode, press the power button for a short press

#### charging the helmet and remote

Note that when the battery on the helmet is low, the power button will start flashing red. At this point there is only approximately 30min of charge left in the helmet. When the battery on the helmet is critically low and is about to shut off, before it does so the helmet will beep several times to inform you that it is about to shut off. (in case you are riding with it at the time)

When the battery on the remote is low, both buttons on the remote will flash red. Please recharge the remote immediately. The remote uses the same charging cable as the helmet.

#### **Pairing the helmet with the remote**

If the helmet is not responding to the remote, either you need to charge the remote, or the remote is not paired with the helmet. To pair the remote to the helmet, follow these steps:

- 1) Turn your helmet off. Then press and hold the power button till you hear a beep.
- 2) Press and hold both buttons on the remote till you see both button lights turn on.
- 3) Press any one button on the remote. Your helmet will respond accordingly, and will automatically exit pairing mode. Your helmet and remote are now paired.

#### **Connecting the helmet with your phone**

Connect your Lumos Helmet to your phone via Bluetooth by following these steps:

- 1) Download the Lumos app.
- 2) Turn on Bluetooth on your phone and launch the app.
- 3) Follow the instructions on the app to pair the helmet with your phone.

#### **Using the AUTOMATIC WARNING lights**

Using a motion sensor in the remote, Lumos senses when you're making a sudden change in motion and turns all the lights at the back of your helmet solid red to indicate that you are slowing down.

This feature is still being refined, and is currently only available in beta. To activate and use the automatic warning light feature, follow the instructions in the included sheet titled "A NOTE ABOUT THE AUTOMATIC WARNING LIGHT FEATURE."

Note: Activating the automatic warning light feature will also decrease the battery life of your remote significantly.

In its normal mode your remote would last for approximately 1 month on a single charge. With the automatic warning light feature battery life will depend on frequency of use, but can drop to less than a week on a single charge.

#### **Resetting your helmet**

In rare situations you might find your helmet gets "stuck" (eg. helmet cannot be turned off or is non-responsive to button presses. In this situation your helmet might need to be reset. To reset, simply connect your helmet to the charger, and it will automatically reset itself. If you still encounter problems, email us at [support@lumoshelmet.co](mailto:support@lumoshelmet.co) and we will be happy to assist you!

#### **Fitting Instructions**

- 1) The helmet must fit properly to be effective. With a proper fit, the helmet will not move back and forth or side to side while fastened. The helmet can only protect if it fits well. The buyer should try different sizes and choose the size which feels secure and comfortable on the head.
  - 2) Tighten or loosen the rear adjustment dial to fit the circumference of your head as required.
  - 3) Adjust the strap tension at the buckle so that the helmet is strapped snugly. Tighten the strap as required to obtain a snug fit. With the helmet on and tightly fastened, make sure the helmet cannot be removed from your head or rolled backward or forward excessively. Be sure that the buckle is not against the jawbone.
  - 4) When properly fitted and adjusted, your ears should not be covered by any part of the straps.
  - 5) Make sure you can see clearly and your peripheral vision is not blocked.
- To check for proper tension, put on the helmet and fasten the buckle. Open your mouth. You should feel the strap pulling against your chin. Then attempt to pull the helmet off the front or rear. If the helmet comes off, increase strap tension and examine if thick enough pads are being used. The helmet should not be able to roll forward or backward excessively. It should not be possible to remove the helmet without unfastening the buckle.
- NOTE: Please check adjustment every time this helmet is worn.

#### **Care Instructions**

- 1) For cleaning, use a soft cloth, mild soap, and water only. Your fit pads are removable and should be washed by hand with mild soap and water, rinsed and then air dried only. The protection given by this helmet may be severely reduced by the application of paint, adhesive stickers and transfers, cleaning fluids, chemicals, petroleum and petroleum products, and other solvents. The helmet will be damaged if exposed to temperatures exceeding 62°C (150°F). Never remove or modify the original elements that constitute the helmet, or add accessories not recommended by the manufacturer, as it may risk cancelling the protective role of the helmet. During transportation, do not expose your helmet to impact or external force. Store in a dry place, away from heat from, for example, a radiator or direct sunlight through a car window.
- 2) Replacement: This helmet is designed to absorb shock through partial destruction of the energy absorbing liner. This damage may or may not be visible to the user. After a severe impact or blow, deep scratches or other abuse, this helmet should be destroyed and replaced even if it appears undamaged. A helmet should also be replaced after a few years of careful use and if it does not fit anymore.

- (a) No Helmet can protect the wearer against all possible impacts.
- (b) The helmet is designed to be retained by a strap under the lower jaw.
- (c) To be effective, a helmet must fit and be worn correctly. To check for correct fit, place helmet on head and make any adjustments indicated. Securely fasten retention system. Grasp the helmet and try to rotate it to the front and rear. A correctly fitted helmet should be comfortable and should not move forward to obscure vision or rearward to expose the forehead.
- (d) No attachments should be made to the helmet except those recommended by the helmet manufacturer.
- (e) The helmet is designed to absorb shock by partial destruction the shell and liner. This damage may not be visible. Therefore, if subjected to a severe blow, the helmet should be destroyed and replaced even if it appears undamaged.
- (f) The helmet may be damaged and rendered in effectively by petroleum and petroleum products, cleaning agents, paints, adhesives and the like, without the damage being visible to the user.
- (g) A helmet has a limited lifespan in use and should be replaced when it shows obvious signs of wear.
- (h) This helmet should not be used by children while climbing or doing other activities where there is a risk of hanging or strangulation if the child gets trapped whilst wearing the helmet.

**FCC STATEMENT:**

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.

**Warning:** Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for Class B digital device, pursuant to Part 15 of the FC 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 or more 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.

**RF warning statement:**

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.

-English:-

This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions:

- (1) This device may not cause interference, and
- (2) This device must accept any interference, including interference that may cause undesired operation of the device."

- French:-

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

- (1) l'appareil ne doit pas produire de brouillage, et
- (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement."

**Specification of radio transmission**

**Product:**

**Model:**

**Operating Frequency:**

**Power:**

Lumos Kickstart Helmet Lumos Remote

L1101L	LRELNR-AO
2402MHz	2480MHz
RX 3.7V 800mAh	TX 3.7V 90mAh

The above product is in conformity with the PPE Regulation(EU) 2016/425 and is identical to the PPE which is subject of EU certificate LEC FID0369703 issued by ITS Testing Services UK Ltd

The above product is in conformity with the European Radio Equipment Directive (RED) (2014/53/EU) which is subject of EU certificate 172140265/AA/00 issued by Telefication

Bluetooth LE  
Maximum Output Power:-1.0 dBm EIRP Average (Calculated)  
Maximum Antenna Gain: 1dBi

You can find the declaration of conformity by the following links:  
[www.lumoshelmet.co/EU\\_Dot](http://www.lumoshelmet.co/EU_Dot)

**Company Information:**  
Lumen Labs (HK) Limited  
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**Need more help?**  
Email us at [support@lumoshelmet.co](mailto:support@lumoshelmet.co)  
We would be happy to assist you!