USER MANUAL

BENUTZERHANDBUCH

MANUEL UTILISATEUR

MANUAL DE USUARIO

MANUALE UTENTE

MANUAL DO USUÁRIO

BRUKSANVISNING

ユーザーマニュアル

用户手册

РУКОВОДСТВО ПОЛЬЗОВАТЕЛЯ

wiral® LITE

TO DOWNLOAD THIS USER MANUAL IN A DIFFERENT LANGUAGE, VISIT WIRALCAM.COM/SUPPORT.

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Чтобы загрузить это руководство пользователя на другом языке, посетите страницу WIRALCAM.COM/SUPPORT.

WELCOME TO OUR FAMILY!

BOOM! Thanks for purchasing Wiral LITE and welcome to our family!

[Please take your brand new Wiral LITE slowly out of the box while reading this imagining Morgan Freemans voice, for a dramatic effect]

There are those of us that like to explore the unexplored, go out there with a fresh and open mind. Those of us that go out there, with a sense of... curiosity. We believe that this is why you got yourself a Wiral LITE, and we believe that this is why you will go out there and create videos never seen before. Because we believe you are the future of content creators and that the best tools for content creations should be available to you. Go out, be curious, be creative, be proud and explore the world with your Wiral LIFE.

Go to the address or scan the QR code below to watch a video tutorial on how to use Wiral LITE safely:

www.wiralcam.com/how-to-use

DISCLAIMERS

1. Read the complete manual before using the product.

2. The user holding the remote control is legally the operator of the unit. The operator is responsible for safe usage and consequences of unsafe usage of the unit and the line. Wiral Technologies AS is not responsible for any injury, damage of property or harm caused by usage of Wiral LITE and accessories.

3. The appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning the use of the appliance by a person responsible for their safety.

4. Do not breach the bounds of privacy. Ask for permission before using Wiral LITE on private property.

5. Do not use the Wiral LITE while under the influence of drugs or alcohol.

CAUTION

To avoid injuries and damages to property:

1. Keep control of the immediate environment and keep Wiral LITE in line of sight at all times when operating the unit. Wiral LITE requires a certain line length for braking and stopping [See page 11]. Lack of attention can result in crashing it into the end anchor points or other obstacles.

2. To keep the Quick Reel™, tightening strap, or rope from breaking, and prevent the resulting injuries/damages to property, follow these instructions:
- Always make sure the Quick Reel™ is securely locked when tightening the rope.
- Do not set up the line in locations where it might interfere with, or block traffic or anything that might crash into the line (e.g. trails, roads).
- Do not set up the line and use Wiral LITE above people and large crowds.
- Do not set up the line near heat sources, sharp objects or in another way that lead to the line being cut (e.g. open flame, concert lights, sharp rocks)
- Do not set up the line on weak or unstable anchors or anchor points that do not have a fixed distance
- Never overtighten the Quick Reel™. Do not tighten above 390N (40kg/90lbs). (Replace strap if safety seam is breached).
- Do not pull or apply pressure on a line that is fully tightened.
- Release the control wheel and stop the Wiral LITE immediately if it derails or if an obstacle keeps it from moving freely.
- Never exceed maximum payload of 1.5kg (3.3 lbs)
- Do not leave the line mounted unsupervised.

3. Warning! Misuse of battery could lead to risk of fire and burns.

4. Always make sure that the Wiral LITE and the remote control is powered on and the line is tightened before mounting Wiral LITE on the line, and do not loosen or tighten the line while the unit is mounted.

5. Do not touch the motor when the product is in use or immediately after use.

6. Do not expose Wiral LITE to water. It is not waterproof and cannot be used under water. [do not use in snowstorm, sandstorm, or other extreme weather]

7. Do not use in temperatures below -15°C and above 50°C

8. Do not use Wiral LITE in wind conditions exceeding 10 m/s (22 mph), or in other severe weather conditions.

9. Do not use in areas with high levels of interference (e.g. radio transmission towers).

10. Store the kit in room temperature, in a dry environment and shielded from sunlight. Maximum line strength may decrease over time.

11. Always keep Wiral LITE, all accessories and packaging out of reach of children and infants.

12. Never use 3rd party accessories including 3rd party rope as a replacement for the original parts. Only use genuine certified Wiral replacement parts.

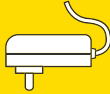# WHAT'S IN THE BOX
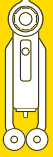
WIRAL°LITE

REMOTE CONTROL

QUICK REEL
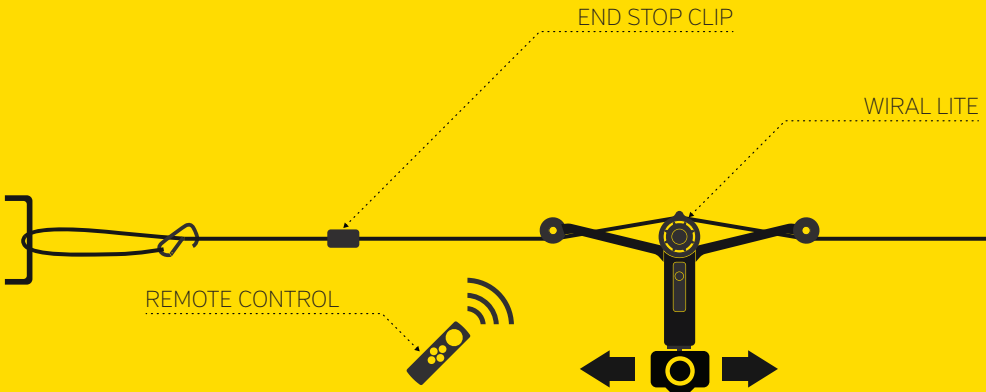
TIGHTENING STRAP

11.1 V LI-POLY BATTERY

UNIVERSAL BATTERY CHARGER

BALL JOINT
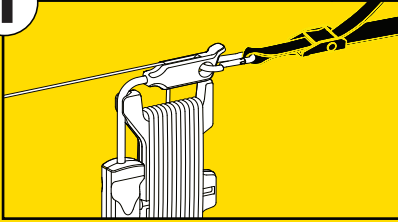
END STOP CLIPS (2X)

END STOP CLIP

WIRAL LITE

REMOTE CONTROL

QUICK SETUP

Wiral LITE can easily be set up in less than 3 minutes. To learn how to do it, follow the instructions on the next pages.
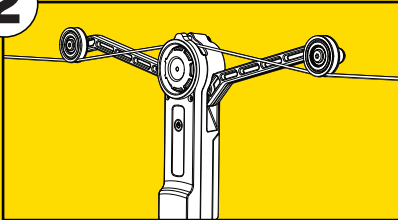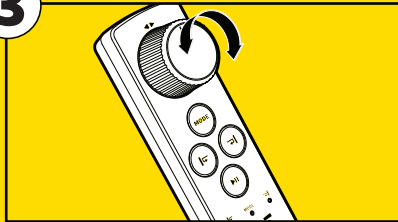

SET UP THE ROPE SYSTEM
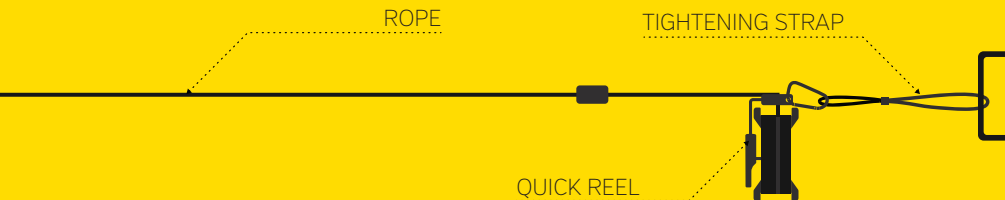READ MORE ON PAGE 8-9

MOUNT WIRAL LITE
READ MORE ON PAGE 10-11

CONTROL WIRAL LITE
READ MORE ON PAGE 14-19

ROPE

TIGHTENING STRAP

QUICK REEL

A CARABINER ATTACHMENT POINT

B ROPE GUIDE

C ROPE REEL

D ROPE

E ROPE CARABINER

F HANDLE

G ROTATY KNOB

H LARGE STRAP CARABINER

I TIGHTENING STRAP

J SMALL STRAP CARABINER

K TIGHTENING BUCKLE
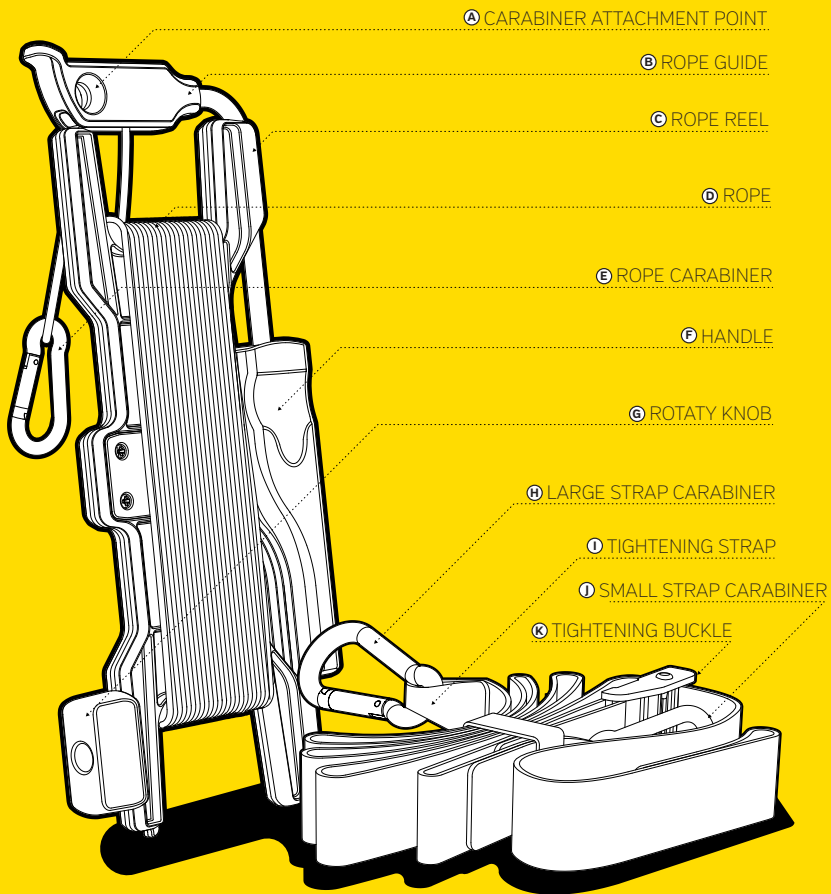
1 QUICK REEL™

The Wiral LITE kit comes with the Quick Reel™ that makes it possible to set up the line in just a few minutes. The Quick Reel™ consists of a reel for handling the rope and a tightening strap for connecting and tightening it.
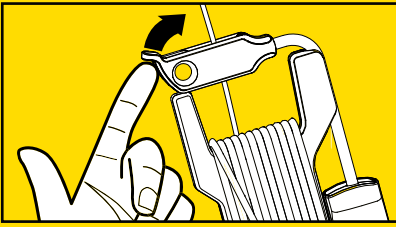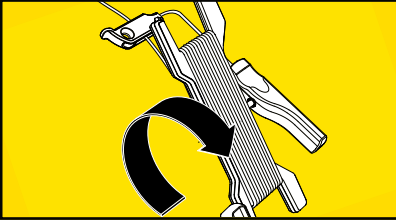
01 UNLOCK QUICK REEL™

Press rope guide to unlock Quick Reel™ and unwind the rope.
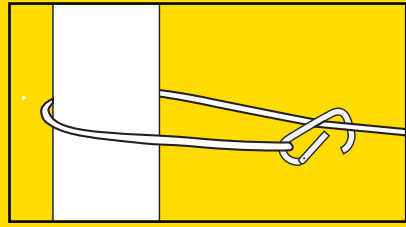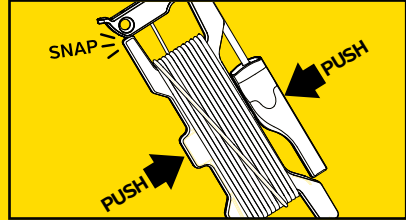

02 ATTACH CARABINER

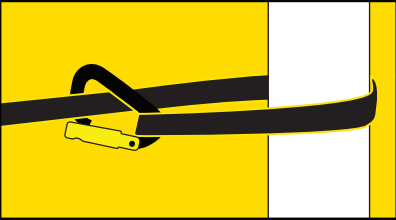Place the rope around the first attachment point, and attach the carabiner to the rope

03 UNWIND ROPE

Pull out the rope and let the reel rotate freely to unwind the rope.
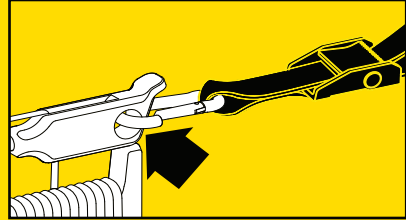

SNAP

PUSH

PUSH

04 LOCK QUICK REEL™

Lock the Quick Reel™ when you are close to the second attachment point.
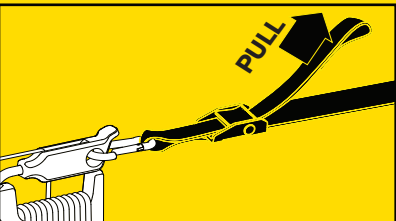

05 FASTEN STRAP

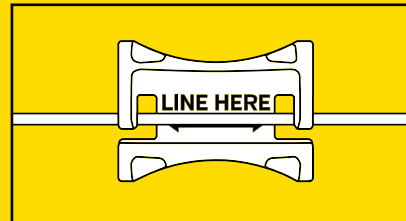Place the tightening strap around the second attachment point, and attach the large strap carabiner.

06 ATTACH STRAP

Connect the small strap carabiner to the Quick Reel™ rope guide.

PULL

07 TIGHTEN STRAP

Tighten the system by pulling the end of the strap with a maximum force of 40 kg / 390 Nm.


LINE HERE

08 MOUNT END STOPS

Mount the physical end stops close to the attachment point on each side. See next page.

MOUNTING OF END STOP CLIPS

The kit includes two end stop clips. The clips should be mounted on to the rope in a recommended distance from each attachment point. The distance can be found in the table on the next page. This will help avoiding Wiral LITE crashing into the attachement points. When the end stop is mounted, it will either derail or stop the unit before it is reaching the end of the line.
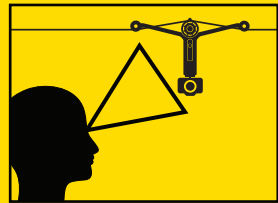
SAFETY ZONE   **BRAKING DISTANCE**

END STOP CLIP
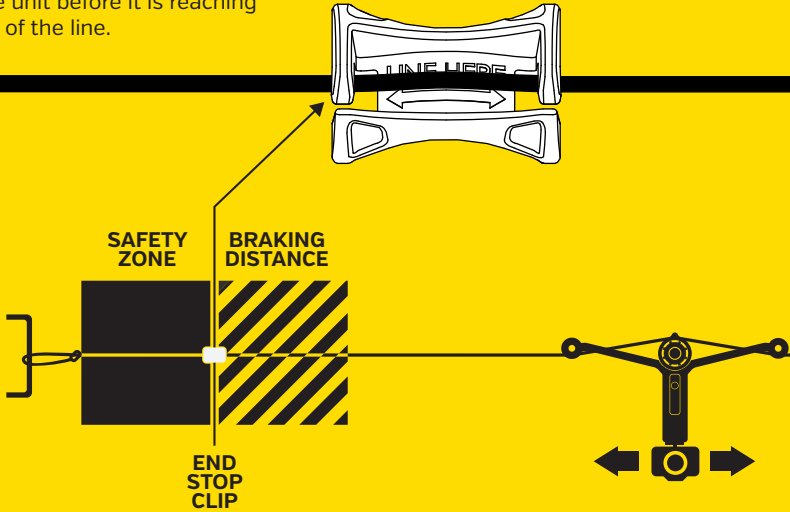
⚠️ WARNING!
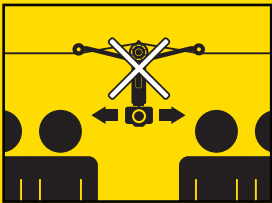
DO NO SET UP the line and use Wiral LITE above people, in locations where it might interfere with traffic or where anything might crash into the line (e.g. trails, roads).
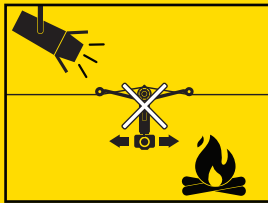
DO NO SET UP the line near heat sources, sharp objects or in another way that lead to the line being cut (e.g. open flame, concert lights, sharp rocks)

KEEP CONTROL of the immediate environment and keep Wiral LITE in line of sight at all times when operating the unit. Lack of attention can result in crashing it into obstacles.

BRAKING DISTANCE AND SAFETY ZONE

INCLINE

The maximum incline of Wiral LITE varies with the weight of the camera attached to it. See the table below to check how steep your setup can move.

	0 - 500 g (0 - 1.1 lb)	500 - 1000 g (1.1 - 2.2 lb)	1000 - 1500 g (2.2 - 3.3 lb)
Max. Incline	30°	25°	10°

The values are estimates, and may vary with environmental conditions.

BRAKING DISTANCE

Maximum braking distance of Wiral LITE will be different based on the weight of the camera that is used.

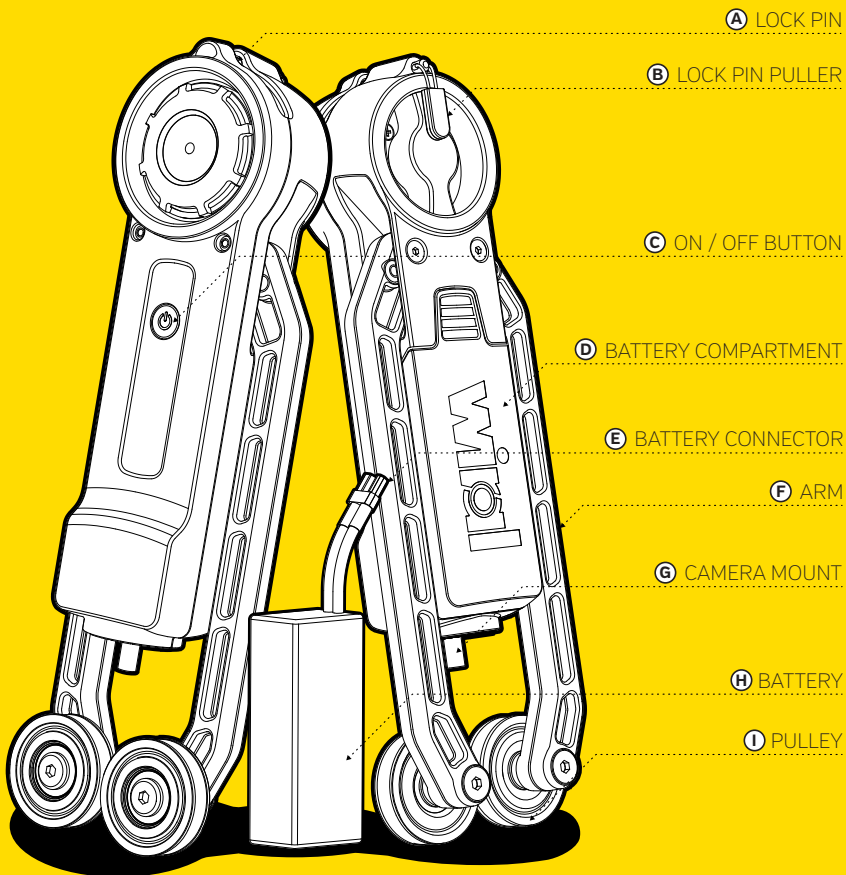|	0 - 500 g (0 - 1.1 lb)	500 - 1000 g (1.1 - 2.2 lb)	1000 - 1500 g (2.2 - 3.3 lb)
Horizontal	4 m / 13 ft	5.5 m / 18 ft	7 m / 23 ft
Max. Incline	2 m / 6.5 ft	2 m / 6.5 ft	2 m / 6.5 ft
Max. Decline	5 m / 16.5 ft	7 m / 23 ft	9 m / 29.5 ft

The values are estimates, and may vary with environmental conditions.

SAFETY ZONE

The end stop clip should be mounted with a safety zone between itself and the end of the line to avoid Wiral LITE from crashing into the attachment point. The length of the zone will vary with the weight of the camera used.

	0 - 500 g (0 - 1.1 lb)	500 - 1000 g (1.1 - 2.2 lb)	1000 - 1500 g (2.2 - 3.3 lb)
Horizontal	3 m / 10 ft	4 m / 13 ft	5 m / 16.5 ft
Max. Incline	1.5 m / 5 ft	1.5 m / 5 ft	1.5 m / 5 ft
Max. Decline	5 m / 16.5 ft	7 m / 23 ft	9 m / 29.5 ft

The values are estimates, and may vary with environmental conditions.

A LOCK PIN

B LOCK PIN PULLER

C ON / OFF BUTTON

D BATTERY COMPARTMENT

E BATTERY CONNECTOR

F ARM

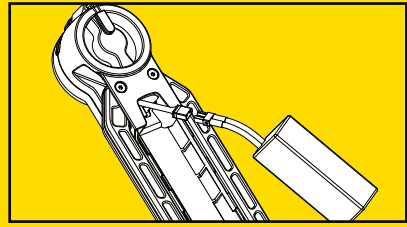**G** CAMERA MOUNT

H BATTERY

I PULLEY

② MAIN UNIT

After mounting the line, it is time to prepare the main unit, including the batteries and the camera that is going to be attached.
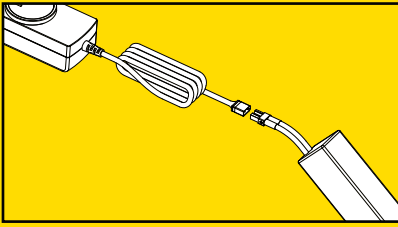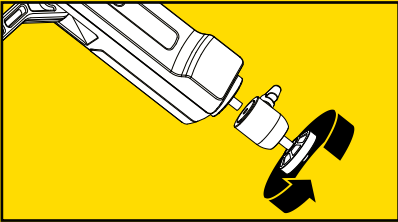
01 CHARGE BATTERY
Charge battery using the charger included in the kit. Read more on page 18 - 19.
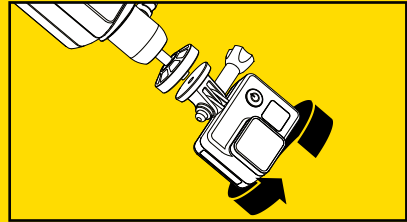
02 INSERT BATTERY
Insert battery and connect it to the power plug. The unit automatically turns on.
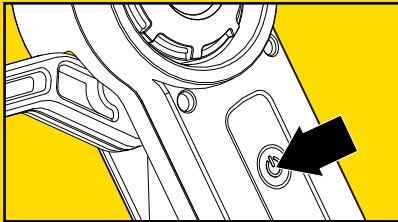
03 MOUNT BALL JOINT
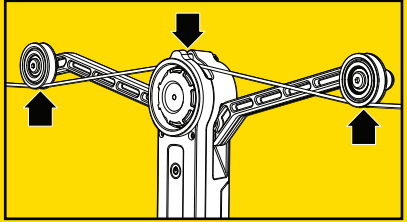Mount the ball joint to be able to point your camera in any angle.

04 MOUNT CAMERA
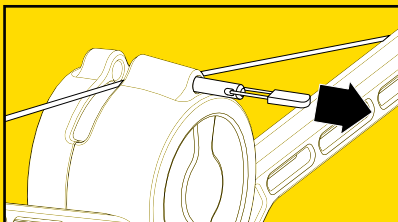Mount your camera on the universal camera screw.

05 POWER ON
Make sure the unit is powered on, use the button to toggle power on or off.

06 MOUNT ON LINE
Mount the unit on the line by placing the line under the two pulleys and over the drive wheel.

07 SECURE THE UNIT
Secure the unit by opening the lock pin, let the line pop into place. Make sure that the line is placed in the drive wheel groove.

08 CONNECT TO REMOTE
If the remote is switched on, it will connect automatically. If not connected, all LEDs will be blinking. To lock the remote to just one unit, read more on page 22.
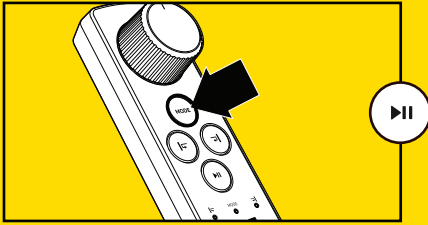
A CONTROL WHEEL

B MODE BUTTON

C SET END STOP 1

D SET END STOP 2

E PLAY / PAUSE

F END STOP INDICATORS

G MODE INDICATOR

H SPEED & BATTERY INDICATOR

I BATTERY COMPARTMENT

③ REMOTE CONTROL

Wiral LITE can be operated by using the remote control included in the kit. The remote control is controlling speed and acceleration, setting digital end stops, and giving feedback through six LED lights.

Wiral Lite has three different control modes:

① **Normal Mode:** Control the speed from 0 to 1.4 m/s (0 - 4.5 fps) directly by turning the speed wheel. (Page 16)

② **Sport Mode:** Control the speed from 0 to 9.5 m/s (0 - 31 fps) directly by turning the speed wheel. (Page 17)

③ **Time lapse Mode:** The unit moves slowly back and forth between the digital end stops in speeds up to 20.0 m / 65.6 ft per hour. (Page 18)
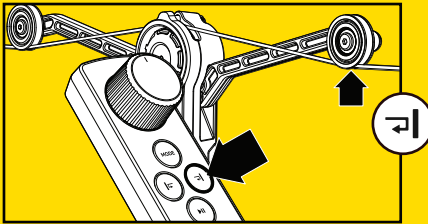
01 POWER ON

Press the **Mode Button** to turn on the remote control. The Mode LED will turn on. Hold the same button for 2 seconds to turn off.
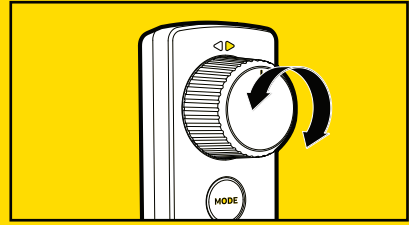
02 CONTROL MOVEMENT

Rotate the **Speed Wheel** to move the main unit. Rotating towards the yellow arrow, will move the main unit in direction of the arm marked with a yellow stipe.
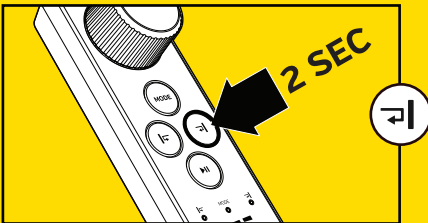
03 SET DIGITAL END STOP

Set digital end stops by moving the main unit to the point you want it to automatically stop and press the end stop button. The yellow end stop button will set a digital end stop in the direction of the arm marked with a yellow stripe.
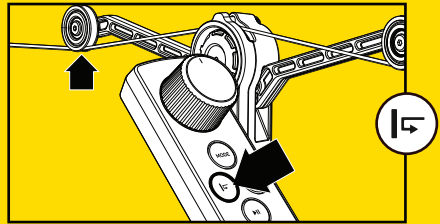
04 SET SECOND END STOP

Move the main unit to the second point you want it to automatically stop and press the opposite end stop button. The main unit will now only move in between these points. **Be aware** that the end stops might drift. They should be reset after emergency stops. Use end stop clips for extra safety.
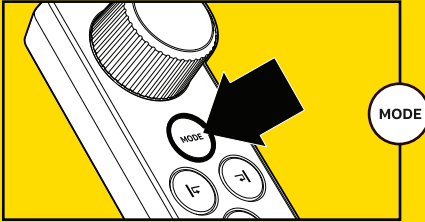
05 REMOVE END STOP

Remove end stop by holding the end stop button for 2 seconds. To replace an end stop, just click the end stop button when you want to place it.
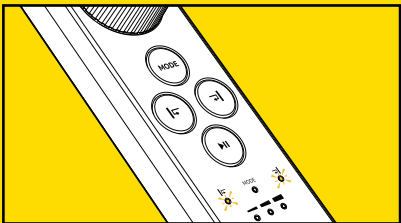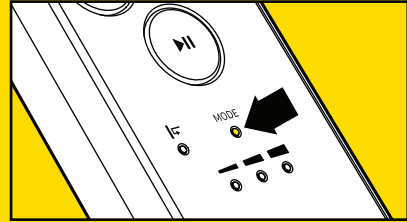
06 END STOPS NOT SET

Setting digital end stops is highly recommended. In time lapse mode the indicators will blink if the end stops are not set.

CHANGE SPEED MODE

MODE

01 CHANGE MODE

The remote is automatically set to normal mode when turned on. Change modes by pressing the mode button.
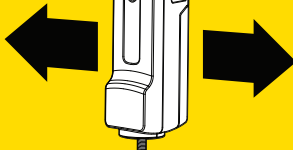
02 MODE INDICATION

Normal Mode: Mode indicator LED is blinking slowly.
Sport Mode: Mode indicator LED is blinking fast.
Time Lapse Mode: Mode indicator LED is continously lit.

NORMAL MODE

YELLOW DIRECTION MARKS ON ARM
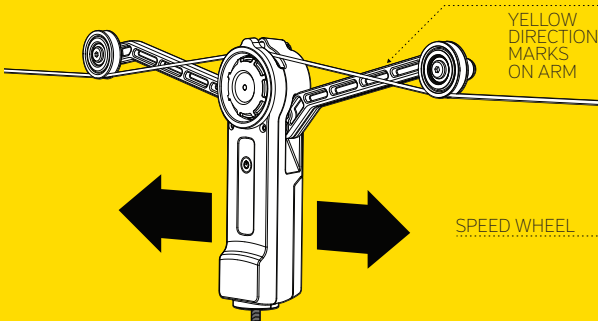
SPEED WHEEL
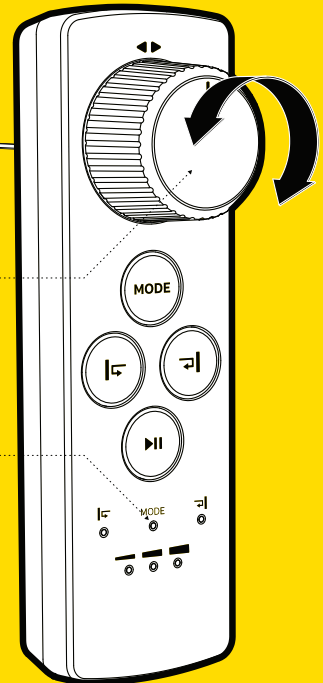
MODE INDICATOR

1 When in Normal Mode, the mode indicator will fade **slowly** in and out.

2 Control the **speed** from 0 to 1.4 m/s (0 - 4.5 fps) directly by turning the speed wheel.

3 Moving the speed wheel clockwise (towards the yellow arrow) will make the main unit move towards the side with yellow direction mark.

4 When the speed wheel is released, the unit will stop.

SPORT MODE

YELLOW
DIRECTION
MARKS
ON ARM

SPEED WHEEL

MODE INDICATOR

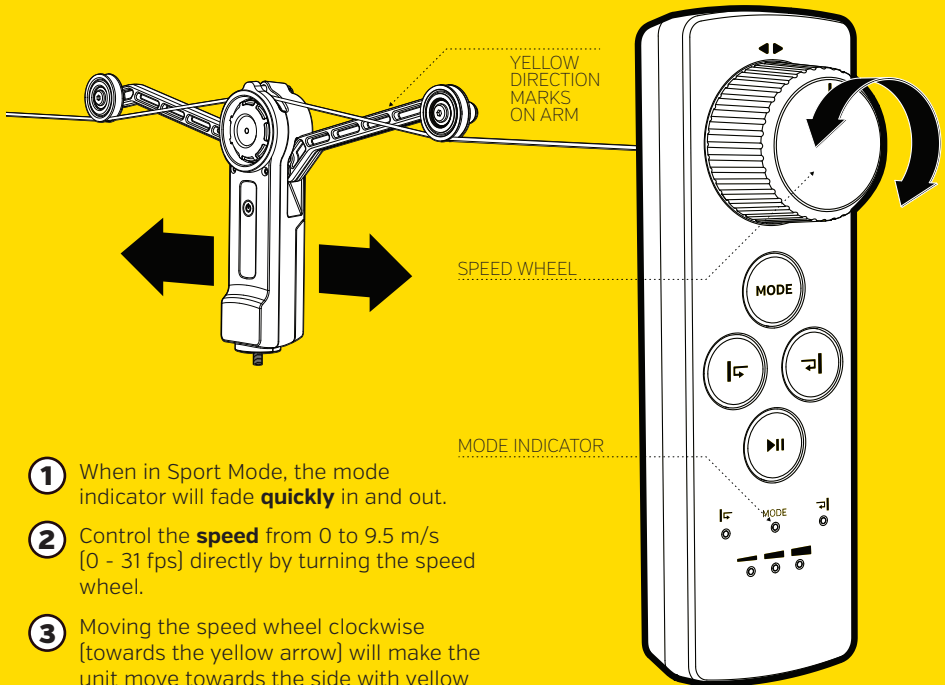(1) When in Sport Mode, the mode indicator will fade **quickly** in and out.

(2) Control the **speed** from 0 to 9.5 m/s (0 - 31 fps) directly by turning the speed wheel.

(3) Moving the speed wheel clockwise (towards the yellow arrow) will make the unit move towards the side with yellow direction marks.

(4) When the speed wheel is released, the unit will stop.

TIME LAPSE MODE

DIRECTION
MARKS
ON ARM

SPEED WHEEL

MOVE / PAUSE
BUTTON
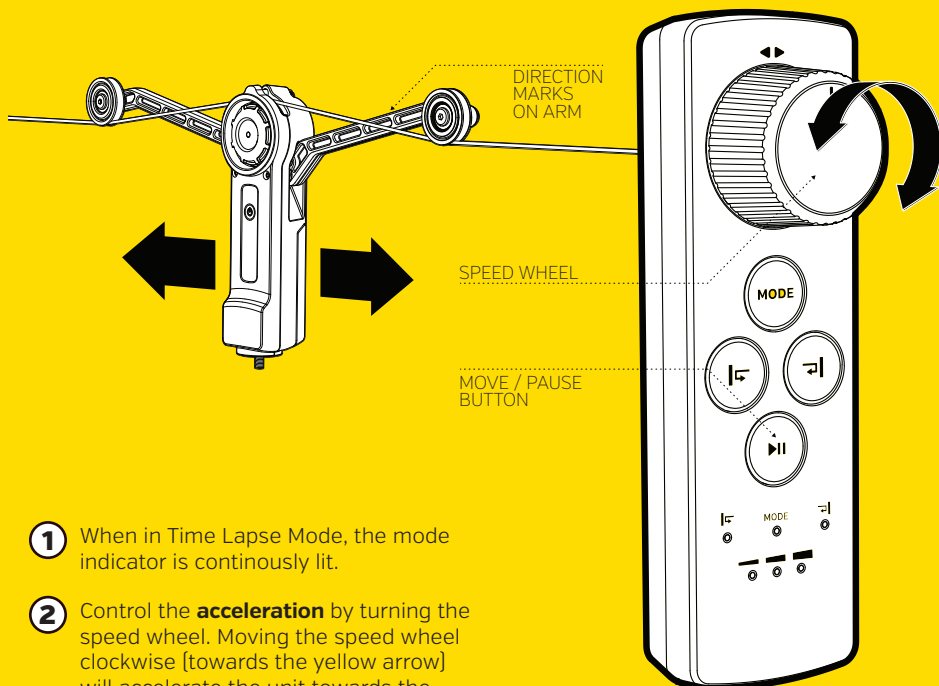
1 When in Time Lapse Mode, the mode indicator is continously lit.

2 Control the **acceleration** by turning the speed wheel. Moving the speed wheel clockwise (towards the yellow arrow) will accelerate the unit towards the side with yellow direction marks.

3 When releasing the wheel, the unit will continue in the same speed.

4 Pause the unit by pressing the move /pause button on the remote.

5 The unit restarts when the play/ pause button is pressed for the

6 To reset the speed to zero, click the play/pause button twice.
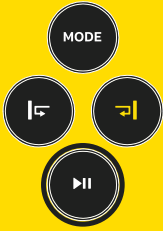
SPEED LEVEL 1
3.3 m / 10.7 ft per hour

SPEED LEVEL 2
6.2 m / 20.4 ft per hour

SPEED LEVEL 3
10.0 m / 32.8 ft per hour

SPEED LEVEL 4
12.9 m / 42.2 ft per hour

SPEED LEVEL 5
16.4 m / 53.7 ft per hour

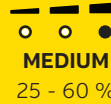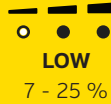**SPEED LEVEL 6**
20.0 m / 65.6 ft per hour

WARNING!
Time lapse mode should only be used with horizontal line. Incline on the line can lead to overheating.

CHECK BATTERY STATUS

To check the battery status of the main unit, hold the play / pause button for 2 seconds. The status will be displayed in the LED below.

BATTERY LEVELS

LOW	MEDIUM	FULL
7 - 25 %	25 - 60 %	60 - 100 %

LED STATES

		MODE	
NORMAL MODE Mode indicator is fading slowly in and out.	◉	☼	◉
SPORT MODE Mode indicator is fading quickly in and out.	◉	☼	◉
TIME LAPSE MODE Mode indicator is continously lit.	◉	○	◉
TIME LAPSE SPEED LEVEL INDICATION 3.3 m / 10.7 ft per hour in Time Lapse Mode. See page 18 for details	☼ ◉ ◉		
TIME LAPSE PAUSE When time lapse is paused by pressing the pause button, all speed LEDs will be blinking.	☼ ☼ ☼		
END STOP 1 AND 2 SET When end stop indicators are lit, digital end stops are set	○	◉	○
END STOP NOT SET If digital end stops are not set in Time Lapse Mode, LEDs will blink.	☼	◉	☼
NOT CONNECTED, ERROR OR OVERHEAT If the remote is not connected to the main unit, having an unexpected error or overheating all six LEDs will blink at the same time, and the LED on the main unit will blink orange. Read more about overheat on page 22.			
FIRMWARE UPDATE MODE / UNPAIRING MODE The main unit LED will be continiusly orange when in firmware update mode or unpairing. Remove the battery of the main unit to exit the mode.			
OVERHEATING WARNING The main unit LED will be blinking white when it is close to overheating. At this point the unit will slow down.			
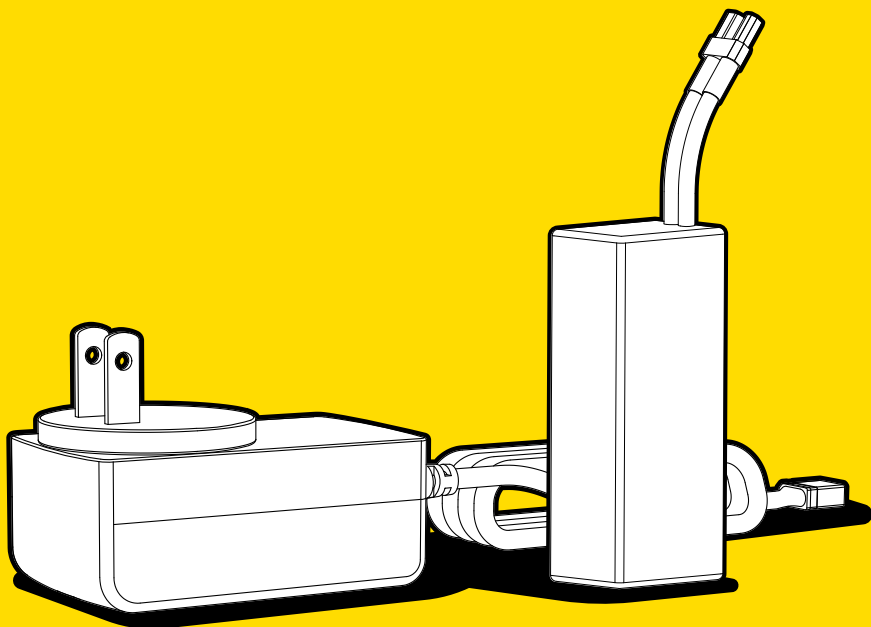
④ BATTERY/CHARGER

Wiral LITE is using a 11.1V rechargeable LiPo battery, that can be
recharged by using the charger included in
the kit. Be sure to read the instructions for
use on the next page before using
both the battery and
the charger.

SAFETY AND DISCLAIMERS

1. Read this whole document (Wiral LITE User Manual) before charging and using the battery.

2. Never puncture, deform, disassemble, shock or short circuit the battery.

3. Stop using or charging the battery if it swells up, the temperature exceeds 60°C, it leaks or anything abnormal happens.

4. Keep battery out of reach of children.

5. Never use a wet battery.

6. Keep away from heat and fire.

7. Only use the original Wiral LITE charger.

**8.** The user takes the full responsibility of using this battery.

CAUTION

Risk of explosion if battery is replaced by an incorrect type. Dispose of used batteries according to the instruction.

SPESIFICATIONS

Manufacturer:	ABP Group Ltd.
Input:	110-240 V
	0.5 A max
Output:	12.6 V
	1000 mA

BATTERY DISCHARGE

Be sure to disconnect the battery from Wiral LITE when not in use. A connected battery will be discharged over time.

UK   SAA   UL   CE
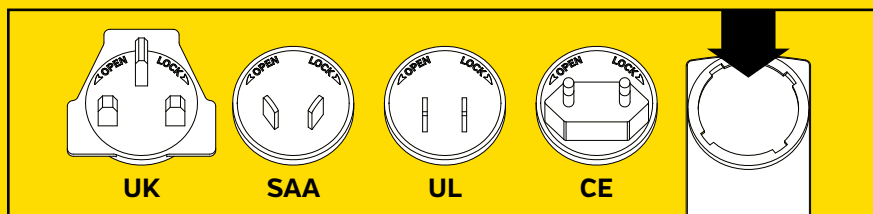
01 SELECT AND MOUNT PLUG

The charger comes with four different interchangeable plugs. Select the correct one for your area, and insert it into the charger.
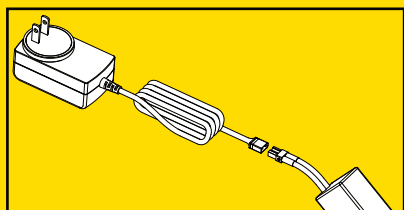
02 CONNECT BATTERY

Connect the battery to the charger, and plug the charger into a power outlet.

03 WAIT FOR GREEN LIGHT

When the battery is fully charged, the LED indicator will change from red to green. The battery is now ready to use.

OVERHEAT PROTECTION

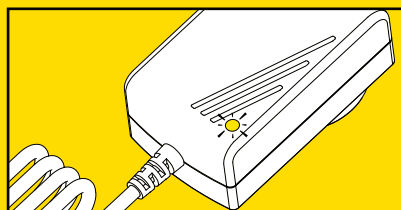When running Wiral LITE with high loads and in high speed for a longer period, the main unit might get warm. To protect the product from possible damages, it will automatically slow down for a short period to cool down. If the problem continues, the unit will stop.

AVOID ROPE WEAR

When using Wiral LITE over time, the rope will wear and tear. To avoid too much damage on the rope, there are some precautions that can be taken.

1. Do not use steeper lines than recommended in the table at page 11.

2. If hitting obstacles, the support pulleys might derail. Be sure to place them in the correct position before you continue.

3. When mounting Wiral LITE, be sure that the line is placed in the drive wheel groove. If not, the line will be damaged.

WIRAL LITE FACTORY RESET

If you are experiencing connection or control errors while using Wiral LITE, a solution could be to do a factory reset to recalibrate the unit. The reset is a quick and simple operation:

1. Press and hold the on / off button on the main unit while connecting the battery.

2. If done correctly, the motor should start running slowly to calibrate the unit.

3. When the motor stops, the unit is ready to use.

PAIRING OF REMOTE

Wiral LITE units coming straight from the factory will not be paired to a specific remote control. This means that one unit can be controlled by several different remote controls at the same time.

To avoid this problem, the main unit can be paired with a specific remote control by following the steps below:

1. Turn on both the remote control and main unit.

2. Hold down both end stop buttons and the play/pause button at the same time, while moving the remote control within a few centimeters of the main unit.

3. When close enough, Wiral LITE will make a sound and the units are paired.

UNPAIRING

To unpair the remote control:

1. Hold down both end stop buttons and the play/pause button at the same time, while turning on the remote control.

To unpair the main unit:

1. Press and hold the power button for 5 seconds, until button light is continuously yellow.

2. Remove battery to confirm unpairing.

USEFUL LINKS

If you need more information about Wiral and Wiral LITE, check out

www.wiralcam.com

To find all information on using Wiral LITE, such as FAQ, tutorials and support information, go to

www.wiralcam.com/support

To read more about warranties, and general legal information for Wiral, visit

www.wiralcam.com/legal

WIRAL LITE
FIRMWARE UPDATE

We are continously working on improving the performance and functions of Wiral LITE. To be sure your Wiral LITE has the latest features integrated, you should scan the QR code or follow the link below to download the latest update:

www.wiralcam.com/firmware

wiral ®

www.wiralcam.com

This content is subject to change.

Download the latest version at
www.wiralcam.com/support