

# PARALLEL MEDICAL

CAPTURE COLLATE COLLABORATE

CONGRATULATION ON YOUR PURCHASE OF A PARALLEL MEDICAL CAMERA. PLEASE READ CAREFULLY THROUGH THE INFORMATION IN THIS DOCUMENT TO HELP GET THE MOST OUT OF YOU PURCHASE



## WARNING

This is a high-precision product. Do not drop. Do not expose the unit to strong magnetic fields, such as magnets, electrical motors, and machinery that use strong radio waves.

Never leave the unit in high temperature areas or direct sunlight. Electronics and optics can be damaged under prolonged exposure to heat. Abide by all local laws when using your camera and related mounts and accessories, including all privacy laws, which may restrict recording in certain settings.

Only use chargers marked: Output 5V 1A. If you do not know the voltage and current of your charger, use the included USB cable to charge the camera from your computer or laptop.

## PACKAGE CONTENTS

PARALLEL Camera and mount housing

Magic arm mounting

Micro USB-USB Cable

Integrated 45K Lux USB Headlamp (optional)



Head band

128gb Micro SD Card

USB Powerbank

Camera Remote Control



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## NOTE

### Before use:

Ensure powerbank is charged - charge using micro USB cable supplied

Download the PARALLEL MEDICAL Mobile Application - search 'Parallel Medical' in the app store.



## QUICK SET-UP

Your camera has been pre-configured according to your quoted working distance. Please follow these steps to begin recording.

### CONNECTION AND POSITIONING

1. Remove the camera, housing and magic-arm from the case
2. Remove the threaded pin from the mount on the front of the headband
3. Connect the magic arm to the mount on the headband (it may be a little stiff the first time) and replace the threaded clamp screw.
4. Lock the first joint near vertical and tighten the clamp screw
5. Loosten the black screw locking the ball joint on the magic arm slightly to allow the mount to move freely but tightly
6. Ensure the camera is well aligned vertically
7. Connect the camera and light to the USB Powerbank (red arrows below) and turn it ON



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## TURNING ON AND MOBILE APP CONNECTION

1. The camera will power on automatically when connected to the powersource. Alternatively, to turn on: Press and hold the POWER Button

*\*see image on right for button functions and locations*

2. TURN ON CAMERA WIFI: Press the WIFI Button/Down Arrow

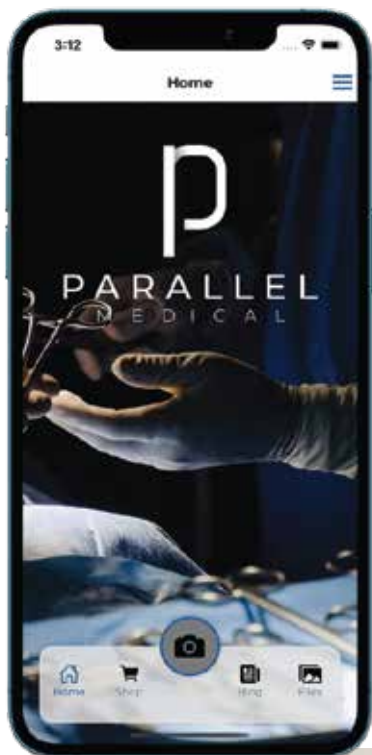
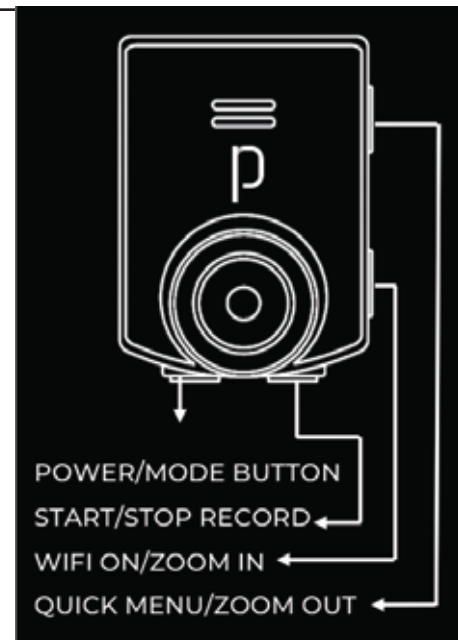
The camera will beep and the blue WIFI signal will be visible on the display. The screen will then display the SSID and Password (default: 12345678)

3. Connect your mobile device to the camera WIFI labelled **ParallelCam???????**

4. Open the PARALLEL Medical mobile application

5. Click the  icon

6. You will now be viewing the live stream from the connected camera.



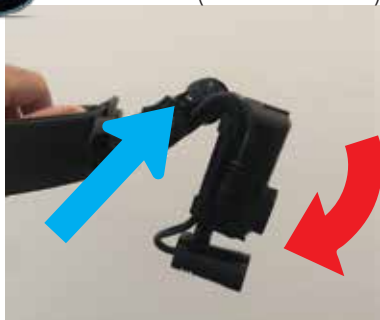
## POSITIONING THE CAMERA

Use the live stream to achieve optimal camera positioning. You can rotate your screen horizontally to do so.

1. Position like the image below, ensuring vertical alignment and lock the magic arm in place

2. Turn on the integrated light (the light should be centred on the display at your working distance, if not, loosen the screw, adjust it at the fulcrum and tighten.

3. Place the headband on, adjust for comfort, loosen the locking screw (blue arrow) and then adjust the camera in direction of the red arrow below



4. With light centred on your operative field at working distance, the cameras FOV should be well centred. If not, continue to adjust until centred.



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5. Ensure that the light beam is centred in the display and when looking through surgical loupes at operative field, that the video is centred. You should now be ready to scrub in.

6. Prior to recording, use the mobile application to make adjustments and ensure that:

**Exposure Value (EV)** (recommended  $-1/3$  or  $-2/3$ )  
**White Balance, and Resolution**

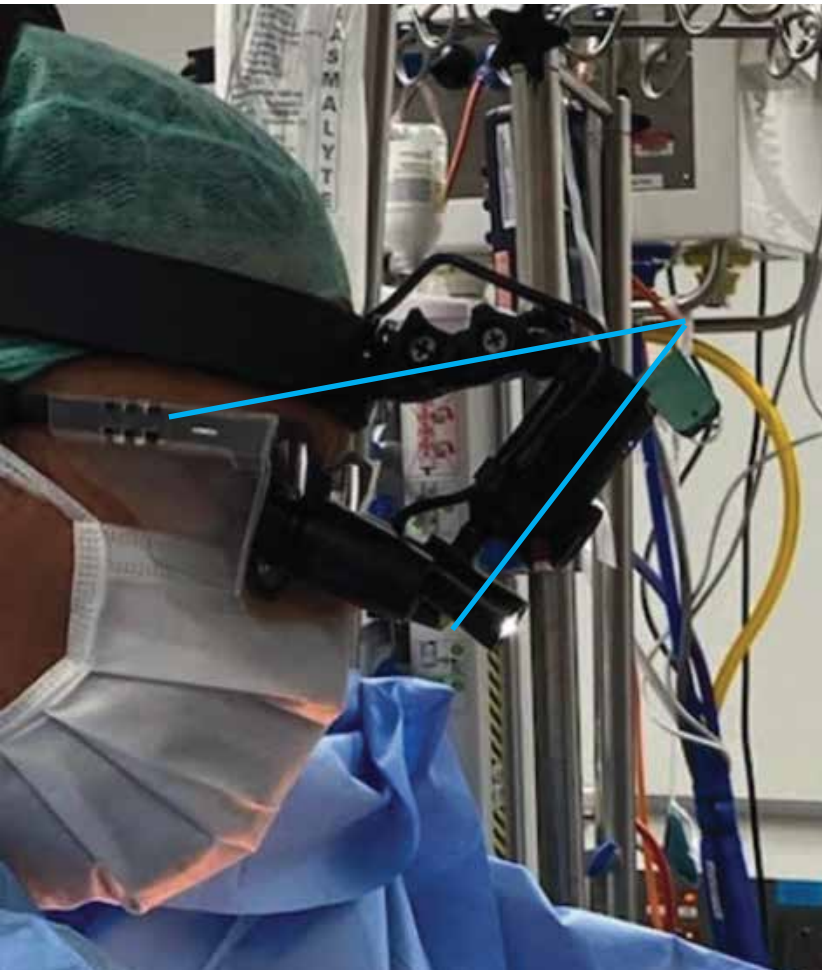
are adjusted to suit your desired output and operating theatre lighting

### **RECORDING:**

Use the mobile application to start/stop recording. The LEDs on the front of the camera will flash to indicate that the camera is recording.  
*\*the provided remote can be used as an alternative to the mobile application*

### **CORRECT POSITIONING**

Lamp located between surgical loupes and centred in frame (as above)  
Camera positioned just off parallel to the forehead - angle of declination will be dependent on personal operating position - neck angle, procedure type, height etc.





## HEADLAMP

To turn on, press the white button (located on the cable)

Cycle through the brightness setting by pressing the white button

To TURN OFF, press and HOLD the white button for 3 seconds

### CAUTION

WITH EXTENDED USE, THE HEADLIGHT BODY CAN REACH TEMPERATURES OF 55 DEGREES. ENSURE THE LIGHT IS NOT IN CONTACT WITH SKIN WHEN IN USE

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FOR PRODUCT SUPPORT AND TROUBLESHOOTING, EMAIL:

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