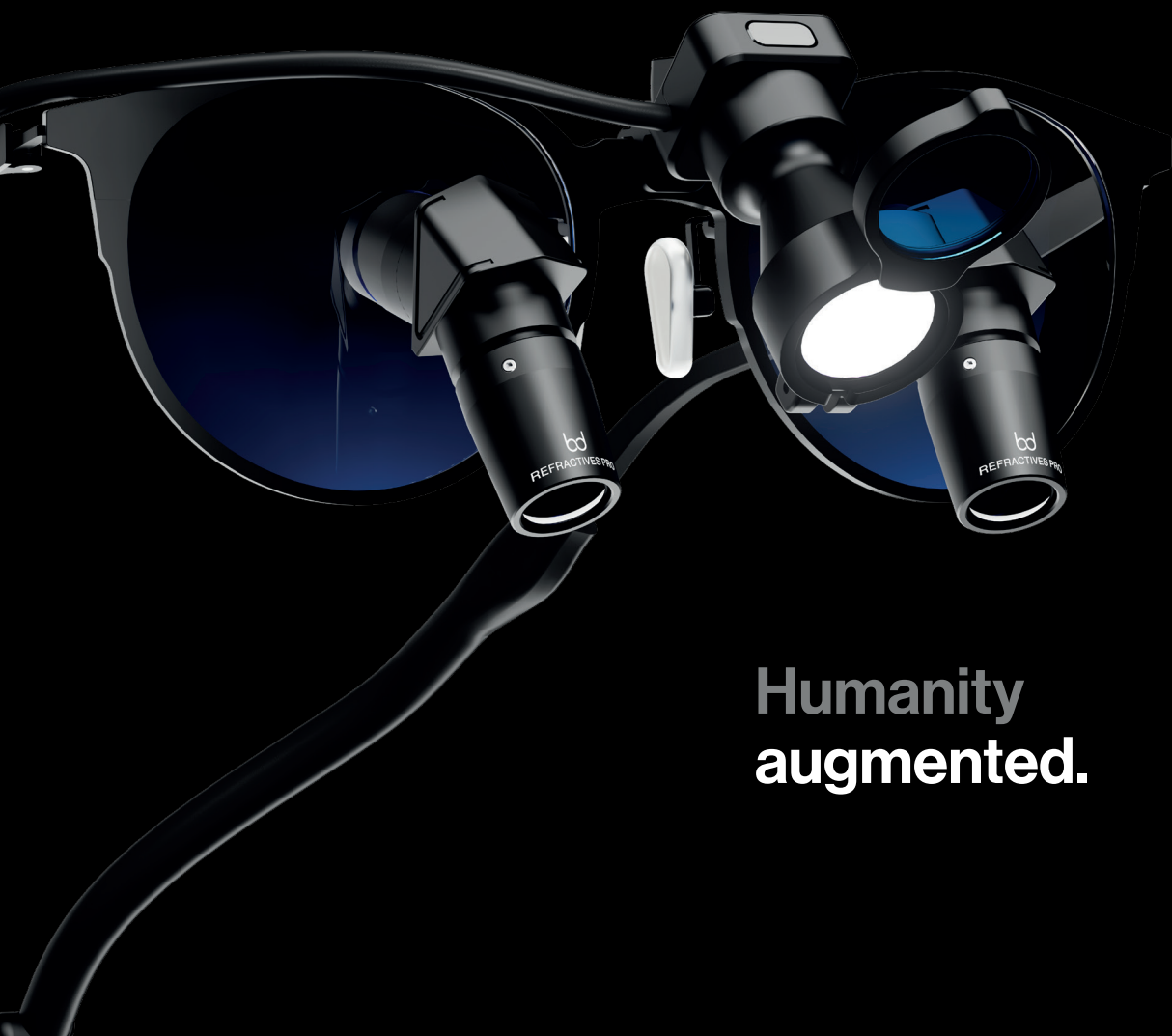


Ignis 4



Bryant Dental.



**Humanity
augmented.**

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The BD story.



Our Mission.

We exist because we know great clinicians change lives.

We believe that the optics we create for clinicians should feel like the first time they wear a pair of prescription glasses - as though it's the first time they've seen the world as it really is.

Our mission is to bring the most human-centric technology to every clinician on the planet. Technology that is so lightweight, so biomimetic and so clear that it feels as though human sight has been amplified not just magnified. Loupes that work to go beyond the limits of human vision.

Our Vision.

Imagine a world where technology is so intuitive, so intelligent, so seamlessly woven into the fabric of healthcare, that it feels like clinicians are magicians. Man, elevated by machine, to new heights.

We're crafting a system that's not just intelligent in a computational sense but in a profoundly human sense. A system so seamless that you forget where the technology ends and where you begin. This is more than augmented reality; it's augmented humanity.



Intended use.

The Ignis 4 Headlight is an illumination device attached to spectacles that is intended to illuminate oral structures and operating areas.

This device is designed to be used by qualified dental professionals, including, but not limited to, dentists and dental hygienists, as well as medical doctors and/or professionals.

Ignis 4 must be used with the bracket, power supply, battery and light provided.



Follow instructions for use.



Possible hazardous optical radiation emitted from this product. Do not look directly into the operating lamp. May be harmful to your eyes – Risk Group 2.



Do not leave batteries charging unattended or in an environment exceeding 40°C (104°F). If the battery behaves abnormally immediately contact Bryant Dental.



Do not touch light when on as it can become very hot. Only make adjustments at room temperature to avoid potential burns.



This device contains neodymium magnets and should not be used if you have a pacemaker or hearing aid or within 25cm of a patient with a pacemaker or hearing aid. Loose magnets could be a choking hazard.



Before use ensure that filter and nose pads are fully tightened using enclosed screwdriver. Using device with any loose components carries with it a serious risk of choking.



This device is not sterile.



Do not expose batteries to naked flame.



Do not use if you have a silicone allergy.



Thank you for choosing Bryant Dental.

We believe in creating excellent products for extraordinary dentists, and we are always proud to gain a new member of our community of passionate clinicians. Join the BD club to see what other members have done with Ignis 4.

Safety instructions.

Conditions

- Use supplied charger, using another charger will damage the battery and invalidate the warranty.
- Do not immerse any of the Ignis 4 system in water.
- If any problems occur with the unit, return to Bryant Dental® for repair. Attempting to repair yourself will void the warranty.
- Do not change or modify any of the existing components without authorisation from Bryant Dental®.
- Do not leave the light on inside a pocket, as it will cause the unit to overheat.
- Do not leave the battery or the headlight on exposed skin, as it can cause burns.
- Do not charge unattended or leave in environments exceeding 40°C.
- If battery behaves abnormally, immediately contact Bryant Dental®.
- Take care not to touch the LED during use, as this can cause a burn injury.
- Do not shine in eyes.
- Do not bring battery or light within 25cm of the patient.
- Ensure that filter is fully tightened before use using enclosed screwdriver.
- Do not use if you have a pacemaker.
- Do not use with silicone allergy.
- Use of loose components carries with it a serious risk of choking.



Components.

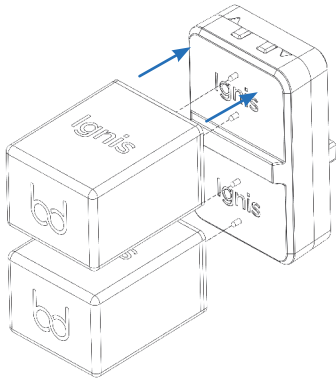
- LED Headlight
- Dichroic composite filter
- Battery unit x2
- Power adapter (country specific)
- Headlight bracket (frame specific)
- Ignis 4 Magstrap
- Ignis 4 screwdriver
- Quick start guide



Charging and before use.

1 Getting started

Place the Ignis 4 batteries onto the charging plate where they will magnetically attach in the correct orientation.



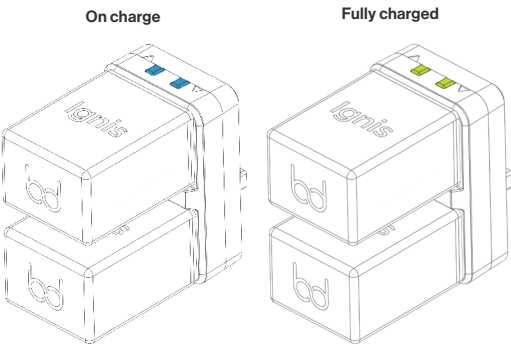
2 Switch ON

Ensure that the charging plate is plugged into the power supply and the power adapter is plugged into the wall plug and switched on.

3 Charging status

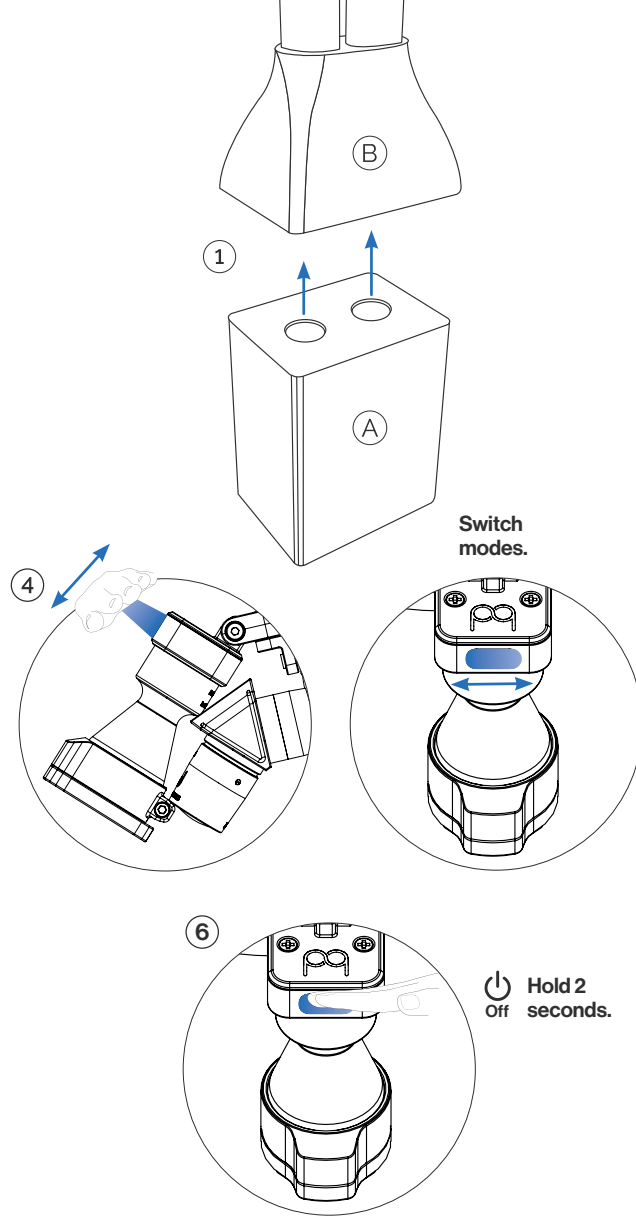
There are two LEDs on the charging plate which glow blue when the batteries are charging and glow green when fully charged.

The LED on the left shows the charging status of the top battery, and the right LED indicates the charging status of the bottom battery.



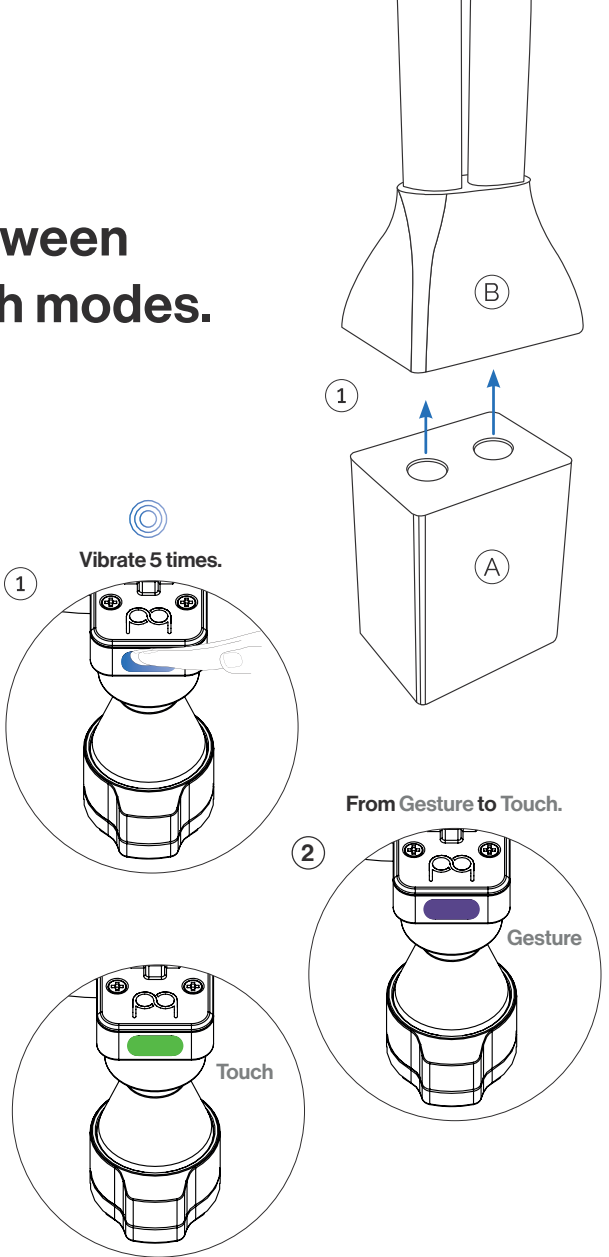
How to use.

1. Connect the Ignis 4 battery (A) and Ignis 4 MagStrap (B) together.
2. Before switching on the headlight ensure that the light is not pointed at anyone.
3. The light will automatically turn on when the battery is connected.
4. To switch between low and high brightness levels, briefly move your hand past the sensor window.
5. The light will vibrate to indicate that you're interacting with it.
6. To switch off the Ignis 4 hold your hand over the sensor window at the top of the LED for 2 seconds until it turns off. The light will vibrate to indicate that you're interacting with it.









How to switch between Gesture and Touch modes.

1. To switch between gesture and touch, connect battery while holding your finger over the sensor at the top of the LED. The headlight will vibrate 5 times in quick succession.
2. Once this is complete you can remove your finger, the LED will have turned green from purple and will now be a touch sensor.
3. To switch back to gesture repeat the process.



Cleaning and maintenance instructions.

-  Do not run under water.
-  Do not spray the device.
-  Do not submerge in any liquid or ultrasonic cleaner.
-  Do not use autoclave or chemiclave.
-  Do not use glutaraldehyde or idophor.
-  Do not use a cleaner with alcohol concentration greater than 70%.



Disposal.



When you plan to dispose of the device, please return to Bryant Dental for recycling or follow your national or state Waste Electrical and Electronic Equipment (WEEE) Directive which forbids the disposal of waste electrical and electronic equipment as unsorted municipal waste.

Requiring that it be collected and recycled or disposed of separately.

Hazardous substances are present in electrical and electronic equipment and present potential risks to human health and the environment if disposed of in municipal landfills, which are not designed to prevent migration of substances into the soil and groundwater.

Servicing and troubleshooting.

- Lithium Ion batteries are considered expendable and will last 300 charge/discharge cycles before gradually losing capacity. New Ignis 4 battery packs can be ordered directly from Bryant Dental® or your local distributor.
- Ensure the Ignis 4 Headlight is regularly cleaned and disinfected.
- Enquire with Bryant Dental® about a service plan for the highest level of support.
- The batteries should be inspected every half year for any signs of damage or malfunction

| | |
|--------------------------------|---|
| Battery is not charging | Switch the mains power off and then on whilst the batteries are attached to the charging plate to reset the batteries. If this doesn't solve the issue, please contact Bryant Dental®. |
| Ignis 4 is not switching on | Run through userguide to ensure correct operation. Run through troubleshooting guides. If unsuccessful, contact Bryant Dental®. |
| Light comes on intermittently | Ensure Ignis 4 battery pack has charge. Ensure all connections are clean. Ensure wires are not twisted. |
| Light is flickering | Ensure Ignis 4 battery pack has charge. Ensure all connections are clean. Ensure wires are not twisted. |
| There is no light output | Ensure all connections are clean. Ensure wires are not twisted. |
| Battery is behaving abnormally | If the battery exhibits abnormal function please cease use immediately and contact Bryant Dental®. Abnormal function could include, though is not limited to, overheating, expanding or changing shape. |

Get in touch.

If you have any questions or concerns, please don't hesitate to get in touch.



Scan to connect.

Our 24/7 support team is always on hand if you need anything. In the first instance, please contact your product specialist, or use the direct whatsapp link above to connect with our customer support team.

Our office team is also available to answer any questions you may have.

UK office contact number:
☎ +44 (0)1932 320064
📞 +44 (0)7990 113723

UK office address:
The Barns, Hilltop Farm, Lyne Lane
Chertsey KT16 0AW, United Kingdom

Australian office contact number:
☎ +61 (02) 72089592

Australian Office Address:
Suite 202, 70-76 Alexander
St.Crows Nest NSW 2065

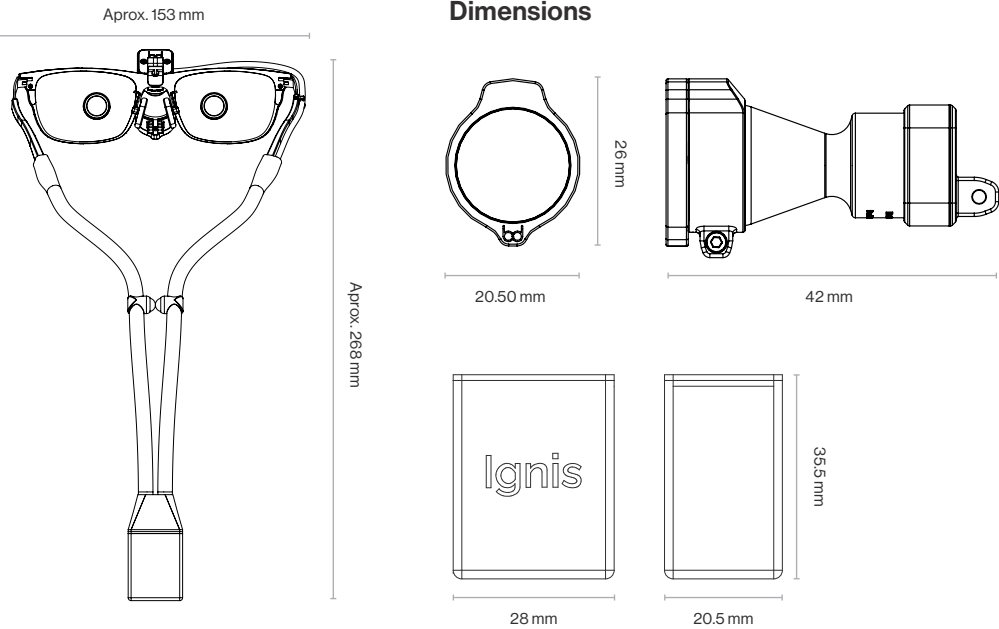
Warranty.

Bryant Dental® will repair any Ignis 4 issue arising from a manufacturing defect for a period of two years, without charge. The liability will not exceed the amount you originally paid for the product.

The warranty does not cover defects arising from negligence, product modification, unauthorised repairs, accidental damage, theft, loss or acts of God.

| | |
|------|---------------|
| SN | See Product |
| GTIN | 5060678494322 |

Technical specifications.



- In the box**
 - Ignis LED Headlight with integrated headstrap
 - Dichroic wavelength filter
 - x2 Ignis 4 batteries
- Battery charging dock
 - Ignis USB wall plug (country specific)
 - Ignis screw driver
 - Ignis bracket
- Instruction manual can be downloaded

Technical:

| | |
|--------------------------------------|---|
| Model | Ignis 4 Pro |
| SKU | 5060678494322, 5061056950591 |
| Spot size (A-490430) | 10cm diameter @ 40cm Working Distance |
| Spot size (B-490430) | 7cm diameter @ 40cm Working Distance |
| Beam colour temperature | 5700K |
| Beam intensity | High: 131lm, Mid: 98 lm, Low: 52 lm |
| Battery weight (Circa) | 35.7g each |
| System weight (Circa exc. batteries) | 62g |
| Battery operating power | DC3.8V --- 450mA @4.71Wh |
| Charger input | AC100 - 240 volts, 50-60 Hz, max. 0.8A |
| Headlight weight | 49.5g |
| Total device weight | 95.9g |
| Battery weight | 35.7g |
| Operating time (constant output) | High: 2.5 hours, Mid: 4 hours, Low: 5.5 hours |
| Charger output | 5.0V 2A 10W |
| Battery charge/discharge cycle count | >300 |
| LED Output Currents | 670mA, 500mA, 335mA |
| Battery capacity | 1700mAh |
| Battery dimensions | 35.5 mm x 28.0 mm x 20.5 mm |
| Device features | 3 Light Output Modes (High, Mid, and Low) Haptic Field Engine Touch and Gesture Mode Setting Instant Light Output Mode Setting |

Storage and shipping conditions:

| | |
|-------------------------------------|-----------------------|
| Storage temperature | 0°C - 40°C |
| Relative humidity | 30 - 75% |
| Environmental operating conditions: | |
| Operating temperature | 0°- 30°C |
| Charging temperature | 10° - 30°C |
| Relative humidity | 30 - 75% |
| Atmospheric pressure | 70.0 kPa to 106.0 kPa |

Only use supplied charging adapter

Technical:

| | |
|--------------------------------------|---|
| Model | Ignis 4 Lite |
| SKU | 5060678494322, 5061056950591 |
| Spot size (A-490430) | 10cm diameter @ 40cm Working Distance |
| Spot size (B-490430) | 7cm diameter @ 40cm Working Distance |
| Beam colour temperature | 5700K |
| Beam intensity | High: 98 lm, Low: 40 lm |
| Battery weight (Circa) | 35.7g each |
| System weight (Circa exc. batteries) | 62g |
| Battery operating power | DC3.8V --- 450mA @4.71Wh |
| Charger input | AC100 - 240 volts, 50-60 Hz, max. 0.8A |
| Headlight weight | 49.5g |
| Total device weight | 90.9g |
| Battery weight | 30.7g |
| Charger output | 5.0V 2A 10W |
| Operating time (constant output) | High: 2 hours, Low: 4 hours |
| Battery charge/discharge cycle count | >300 |
| LED Output Currents | 500mA, 250mA |
| Battery capacity | 1240mAh |
| Battery dimensions | 30.0 mm x 28.0 mm x 20.5 mm |
| Device features | 2 Light Output Modes (High and Low) Haptic Field Engine Touch and Gesture Mode Setting Instant Light Output Mode Setting |

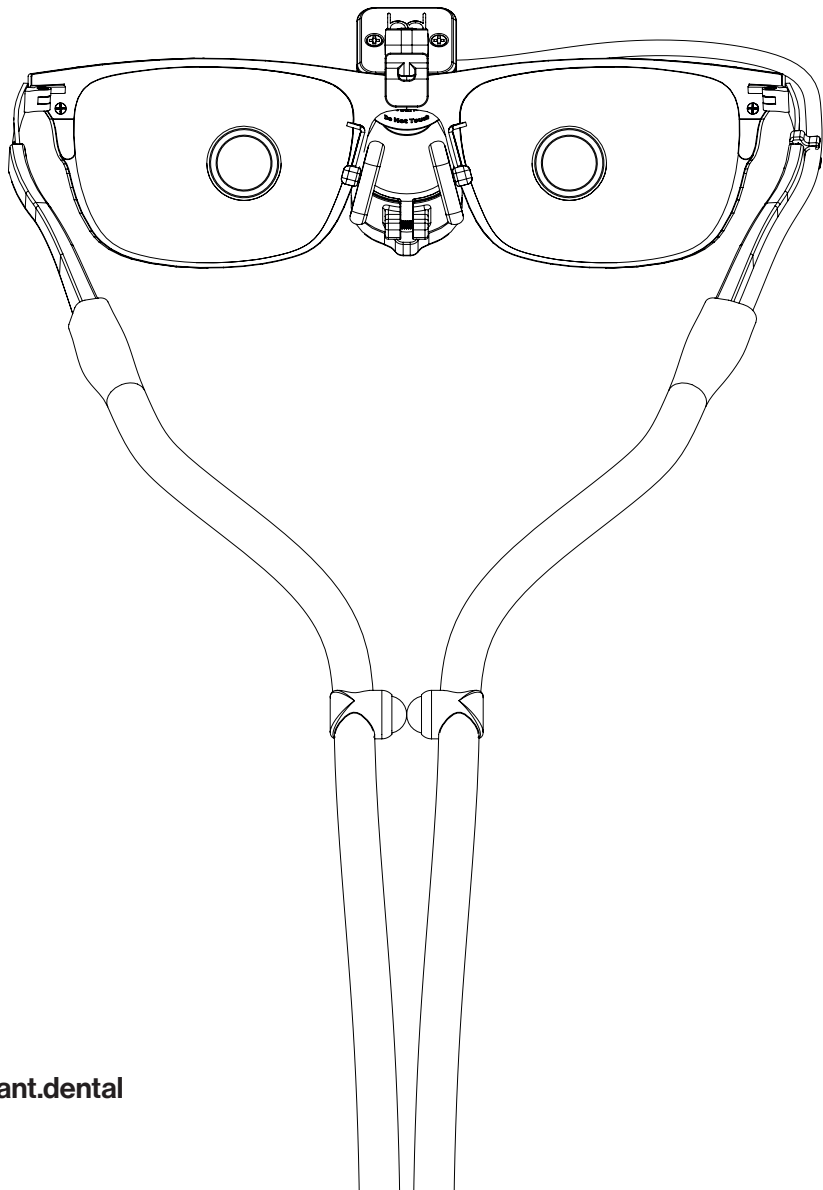
Storage and shipping conditions:

| | |
|---------------------|------------|
| Storage temperature | 0°C - 40°C |
| Relative humidity | 30 - 75% |

Environmental operating conditions:

| | |
|-----------------------|-----------------------|
| Operating temperature | 0°- 30°C |
| Charging temperature | 10° - 30°C |
| Relative humidity | 30 - 75% |
| Atmospheric pressure | 70.0 kPa to 106.0 kPa |

Only use supplied charging adapter



Parts list: of full system:

| Part name | Part code |
|-------------------------------------|--------------------|
| Ignis 4 LED | A-950614 |
| Dichroic composite filter | A-495213 |
| Ignis 4 battery | A-950607 |
| Ignis 4 Lite battery | A-950867 |
| Ignis 4 charging plate | A-494933 |
| Power adapter (country specific) | A-490058 |
| Headlight brackets (frame specific) | A-494476, A-494483 |
| Green BD screwdriver | A-494667 |
| Black BD screwdriver | A-492182 |

All parts supplied by Bryant Medical


Applicable standards:

| |
|---------------------------------------|
| EN60601-1:2006 + A1:2013 |
| EN60601-1-2:2015 + A1:2021 |
| IEC60601-1-6:2010 + A1:2013 + A2:2020 |
| IEC60601-1-2:2014 + A1:2020 |
| EN60601-1:2006 + A12:2014 |
| IEC62471:2006 (risk group 2) |


Meets requirements of the EU-MDR


Contraindications:


| |
|------------------------------------|
| Silicone allergy |
| Do not use if you have a pacemaker |





This device contains neodymium magnets and should not be used if you have a pacemaker or hearing aid or within 25cm of a patient with a pacemaker or hearing aid. Loose magnets could be a choking hazard.


- 


Follow instructions for use.
- 


Operating temperature limit.
- 


This device is not sterile.
- 


Do not use if package is damaged.
- 


Possible hazardous optical radiation emitted from this product. Do not look directly into the operating lamp. May be harmful to your eyes – Risk Group 2.
- 

Do not expose batteries to naked flame.
- 

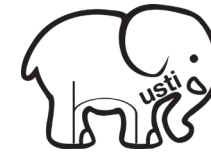
Do not use if you have a silicone allergy.
- 

Do not touch light when on as it can become very hot. Only make adjustments at room temperature to avoid potential burns.
- 

Before use ensure that filter and nose pads are fully tightened using enclosed screwdriver. Using device with any loose components carries with it a serious risk of choking.
- 

Do not leave batteries charging unattended or in an environment exceeding 40°C (104°F). If the battery behaves abnormally immediately contact Bryant Dental.
- 

Meets requirements of MDR.




Bryant Dental x Husti.


Husti is a charity which empowers children in rural India, using education and offering them tools to improve their lives. Bryant Dental is proud to partner with this cause, which aims to change lives and build communities for underprivileged children.



**You have the power
to change lives.**

Find out more about the work they do here.

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 **UK +44 (0)7990 113723**

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