

Refractives Pro and headlight.



Bryant Dental.



**Humanity
augmented.**

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Product variants.

BD Refractive Pro with wireless headlight.



BD Refractive P3.8x
Ignis 3.0



BD Refractive P5.7x
Ignis 3.0



BD Refractive P7.8x
Ignis 3.0

BD Refractive Pro with wired headlight.



BD Refractive P3.8x
Halo 2.0



BD Refractive P5.7x
Halo 2.0



BD Refractive P7.8x
Halo 2.0



BD Refractive Pro.



BD Refractive P3.8x



BD Refractive P5.7x



BD Refractive P7.8x

Refractives Pro.

Not only designed for ergonomics, Refractives were designed by real dentists to allow for biodynamics, for true biological comfort in the ideal posture.

A symphony of lenses and human-centric design come together in the world's lightest, and most comfortable ergo-loupe. Available in 3 magnifications.

Intended use

BD RH2 is a modular device intended to illuminate and/or bioncularly magnify the surgical field of operation.

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.



**Our Refractives
were the original
ergo-loupes.**



Refractives P3.8x

Best for general dentistry.

100	50	54.7g
Field of view (mm)	Depth of focus (mm)	Weight



Wired and wireless headlight options.



Refractives P5.7x

High end cosmetic dentistry.

60	50	54.9g
Field of view (mm)	Depth of focus (mm)	Weight



Wired and wireless headlight options.



Refractives P7.8x

Single tooth dentistry and endodontics.

50	50	54.9g
Field of view (mm)	Depth of focus (mm)	Weight



Wired and wireless headlight options.

Our headlight

The BD LED.

Ultra light and bright, the BD LED re-imagines surgical and dental illumination whilst making your loupes feel lighter.



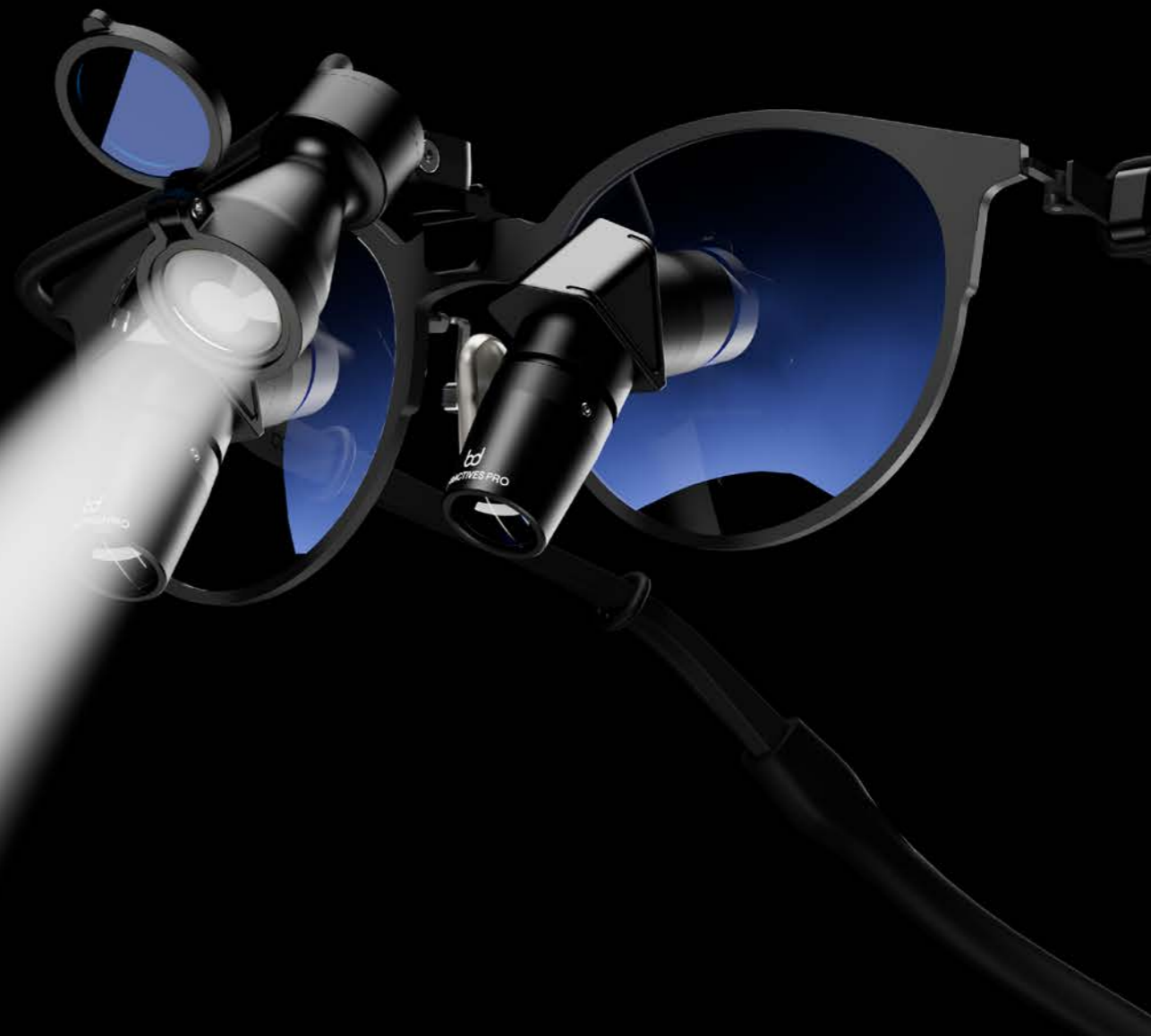
5700K,
beam colour
temperature



36-90
lumens beam
intensity



Dichroic
Wavelength filter
attached.





Our wireless battery.

Our wireless light was created to provide an ultra bright headlight, with outstanding optical clarity.



2 batteries as a standard.



4 - 5 hours, battery life.



1 hour charging time.



2 brightness modes.

Our wired battery.

Our wired light was created to provide a lightweight, bright headlight, with outstanding optical clarity and unparalleled power.



12-60 hour battery life.



5 hour charging time.



What to expect when you first try on the Pros.



The Refractive Pro is a paradigm change in the world of optics, and we have made them as lightweight as possible, and more bespoke than ever before. These changes mean the initial viewing experience is a little different.

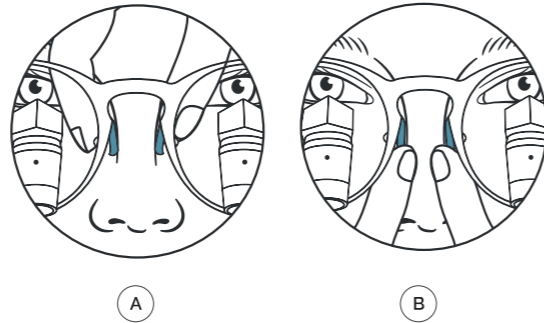
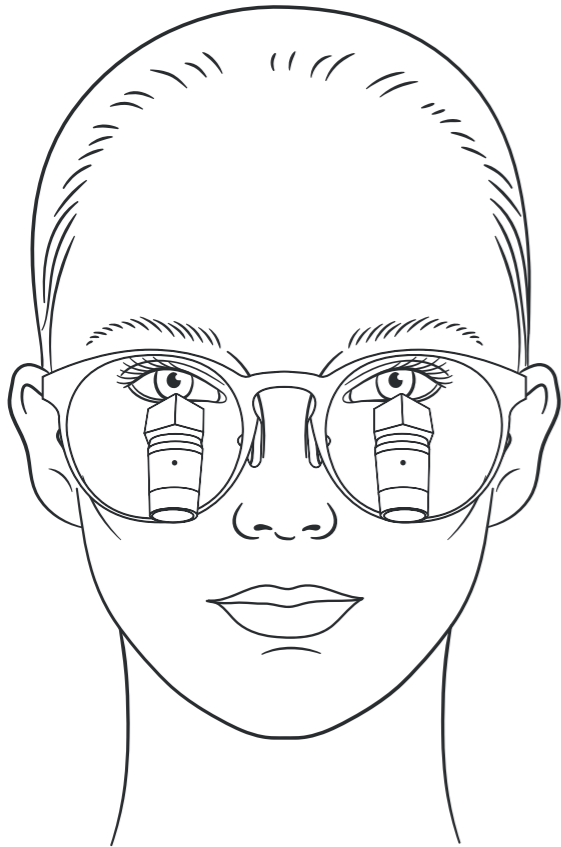
With the Pros, you'll find two telescopes, each generating a circular image for one eye. Instead of merging these circles into one, we deliberately create a figure-of-8 style overlap between them. This intentional design choice significantly expands your field of view.

Initially, when you wear the Pros, you may observe two overlapping circles instead of one clear figure of eight. This phenomenon arises from the unparalleled clarity offered by the Pros which allows you to see the edge of the telescope. However, after approximately two weeks of wearing them, your brain adapts and seamlessly stitches the images together. The result is an unobstructed, panoramic view with a broader field of vision. Get ready for an optical experience that evolves and improves over time.



Our team is here to support you throughout this process, you can contact us here.

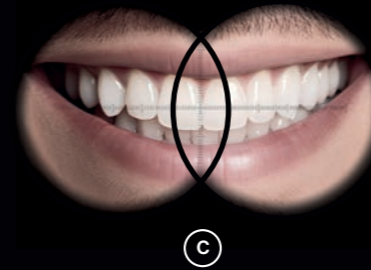
How to set up your Refractives.



Try out your new Refractives, and ensure that your vision is clear and unobstructed.

You can adjust where they sit on your face by pinching the nose pads closer together, which will make them sit higher up your nose (A), or widen the nose pads to move them lower down (B). This process may help you find the best position for the optimal unobstructed view.

⚠ CAUTION: Nosepads are tightened and checked before shipment but may become loose in transit, please use the enclosed screwdrivers to tighten before use.



When you first look through your Refractives you should see an image that looks something like this (see above (C)), however, it is common for highly bespoke products such as Refractives to require some modification to mould to your face shape.



If your vision is shadowed at the top you can **push your nosepads together** so they sit higher on your face.



If your vision is shadowed at the bottom you can **push your nosepads further apart** so they sit lower on your face.



If your vision is shadowed to the right you can **push your nosepads further to the left** to correct this.

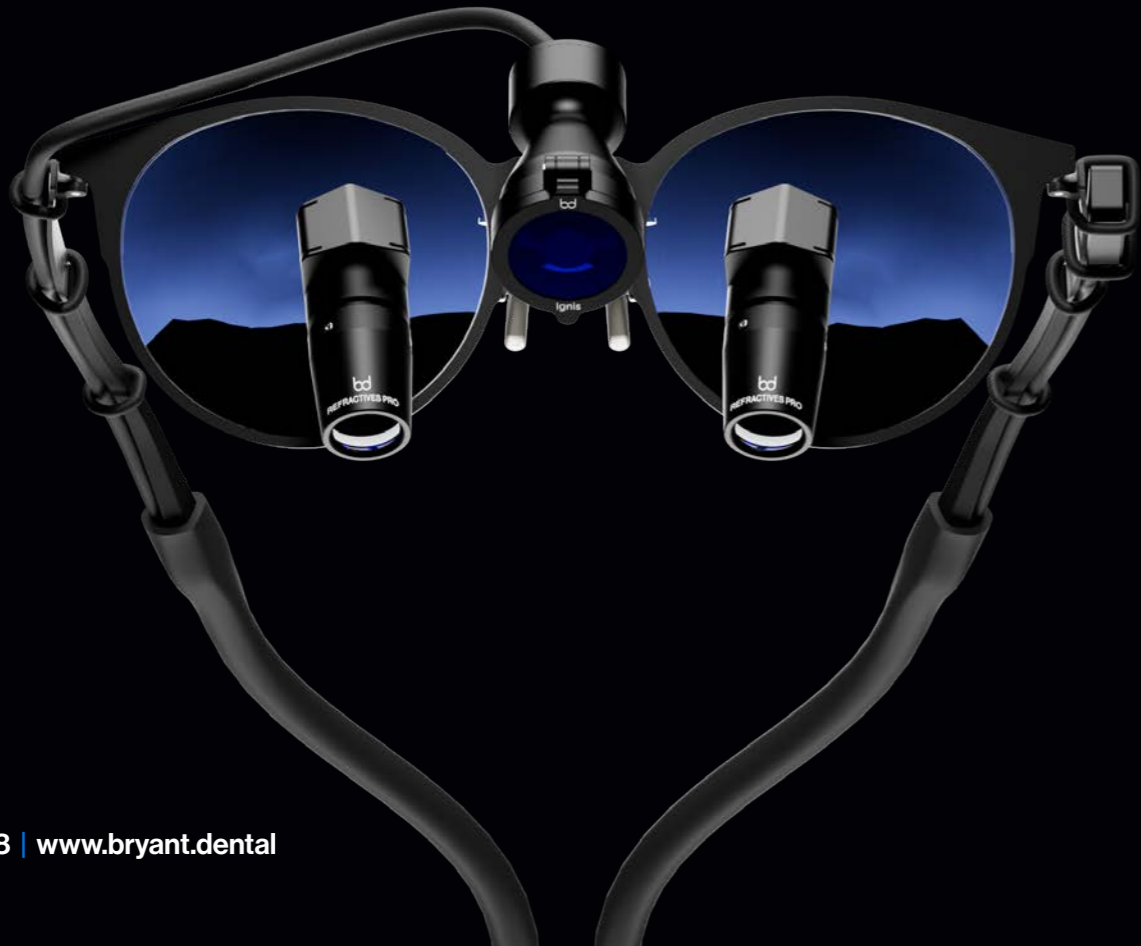


If your vision is shadowed to the left you can **push your nosepads further to the right** to correct this.



Troubleshooting.

Still having trouble getting the perfect visual experience?
Scan here to get in touch with our specialists.



Getting used to your Refractives.

It can often be a challenge getting used to your Refractives, and it is normal to take several weeks or months to fully adjust.

We recommend trying them out at home to start with while doing small tasks, such as reading a page of a book, texting, or painting your nails, to acclimatise to the new and ergonomic position of your neck and back.

If you do experience any issues with the Refractives, please do not hesitate in the first instance to get in touch with your product specialist. We pride ourselves on our customer service, and our specialists, office staff, and BD partners are always ready to help.

Maintenance and protection.

Maintaining your new Refractives is very important. To help prolong the life of your new investment, we recommend cleaning them regularly. We have provided some suggestions shown right:

- We only recommend 70% isopropyl alcohol to clean your Refractives.
- You can use the 3 in 1 to help remove debris without scratching the lens.
- Always wipe and dry with the Refractives cleaning cloth.
- Use the iShields® Visor system for additional protection.



Scan to
view iShields.

Cautions for cleaning and maintenance

- ⚠ 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 cleaning solution with alcohol concentration greater than 70%.



Securing your Refractives.

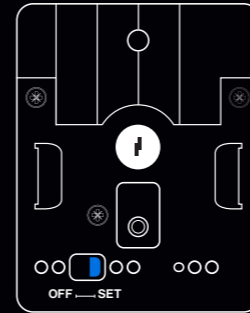


Keep your Refractives safe with our TSA-approved lock.

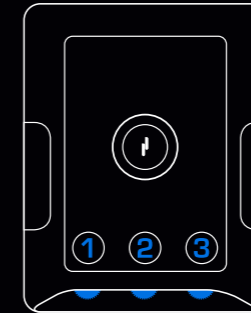
Your matte black case has been engineered for the highest level of impact resistance to help protect your Refractives from the elements and intruders. Please see the instructions shown on the right.

Setting the code.

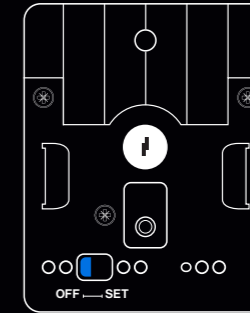
Located on the reverse of the lock face.



Move switch to 'SET'

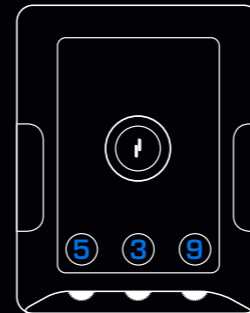


Select a 3-digit code

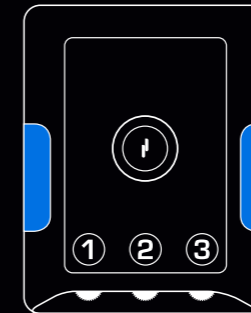


Move switch to 'OFF'

Closing / opening.



Closing: Shut the lock buckle down and change code



Opening: Select your chosen code and push the side buttons

Forgotten your code?

Unfortunately, we don't have a master code that can unlock it. If you need help, please get in touch with your specialist, local office or distributor.

Airtag compatible.

Keep track of your Refractives and ensure their safety with a built in Airtag.

Our cases are Airtag compatible*, making it easy to always be able to locate your Refractives. Please see the instructions below to learn how to connect your iPhone to the Airtag in your case.

*Cases are also SmartTag compatible



Step 1.

Open your Refractives case and remove any contents from within.



Step 2.

To insert your AirTag, remove the silicone mould inlay and place it upside down. The underside contains two compartments either AirTag (A) or SmartTag (B). Once inserted flip back to original position.



Step 3.

Place your unlocked iPhone/Smartphone into compartment (C). **Shown above.**



Step 4.

Wait for your iPhone/Smartphone to detect the Airtag and a pop up will appear on your screen. Press the connect button and simply follow the instructions that appear on the screen.

**Refractives
with wireless
headlight.**





Storing your wireless light.

Step 1.

Place the power adapter (A) and charging plate (B) into the slot. Shown left

Step 2.

Disconnect the battery from your loupes and place them into the case (C). Shown left

Step 3.

Please fold loupes by following the instructions (3a-3c, shown right) and then insert loupes into case (D), followed by tilting the headlight downwards (E). Shown left

Step 4.

Place the screwdrivers into the slots (F). Shown left

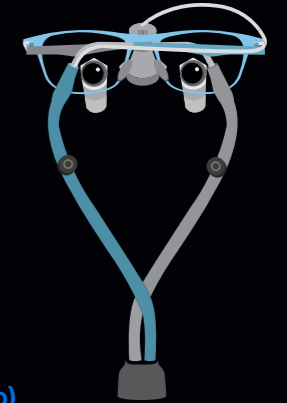
Step 5.

Close and lock the case



(3a)

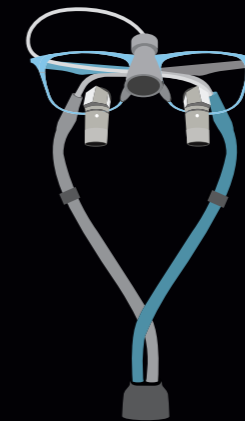
Close the left Loupe arm (shown above)



(3b)

Followed by the right Loupe arm. Silicone straps should cross over (shown above)

(3c)



Face your Loupes towards you. Hold the battery base plate and fold up (shown below)





**Refractives with
wired headlight.**



Storing your wired headlight.

Step 1.

Disconnect the battery pack from Halo headlight **(A)**

Step 2.

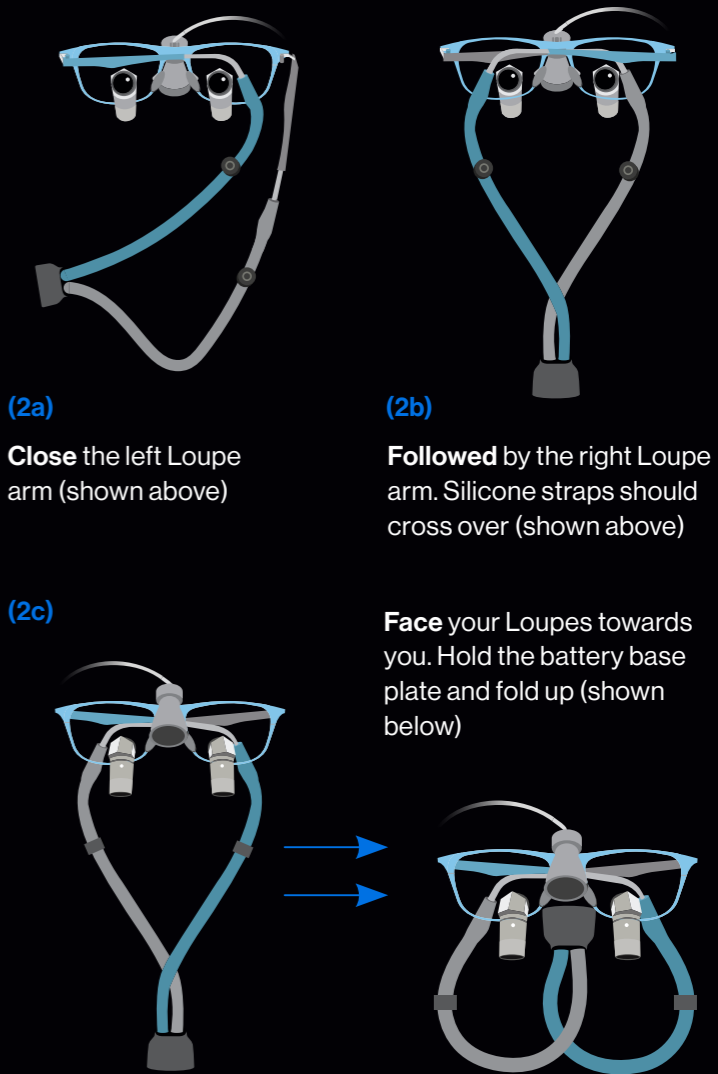
Please fold loupes by following the instructions **(2a-2c, shown right)** and then insert loupes in to case **(B)**, followed by tilting the headlight downwards **(C)**.
Shown left

Step 3.

Using the cable tidy attached to the headlight lead. Fold your cable up/fasten and place under loupes **(D)**.
Shown left

Step 4.

Place Battery Pack **(E)**
Shown left followed by closing and locking the case



(2a)

Close the left Loupe arm (shown above)

(2b)

Followed by the right Loupe arm. Silicone straps should cross over (shown above)

(2c)

Face your Loupes towards you. Hold the battery base plate and fold up (shown below)

Repairs.

Accidental damage.

- 1. Safely return:** Please let us, or your local Bryant Dental distributor know as soon as possible so we can work out how best to support you in the interim.
- 2. Courtesy loupes:** Courtesy loupes will be available for service plan subscribers. We will locate a courtesy pair of loupes that will best fit your unique requirements. As all of our loupes are bespoke, they will not fit as well as your own pair. We will ship these to you as soon as possible.
- 3. Inspection & repair:** All of our repairs are done in house in one of our dedicated repairs facilities. The engineers at the facility will inspect the damage and assess how best to repair them. Any damage to your frames can usually be rectified in a week or less, although this is longer outside the UK due to shipping related delays. Any damage to the lenses will require a more extensive assessment and repair, which can take up to 28 days.
- 4. Return & swap:** Once repaired, we will ask you to confirm a delivery address and ship your loupes back out. Please send the courtesy loupes back to us by Special Guaranteed delivery as soon as possible, in case other customers require them.

Warranty repair.

- 1. Safely return:** Please let us or your local Bryant Dental distributor know as soon as possible so we can work out how best to support you in the interim.
- 2. Courtesy loupes:** Courtesy loupes will be available for service plan subscribers. We will locate a courtesy pair of loupes that will best fit your unique requirements. As all of our loupes are bespoke, they will not fit as well as your own pair. We will ship these to you as soon as possible.
- 3. Inspection & repair:** All of our repairs are done in house in one of our dedicated repairs facilities. The engineers at the facility will inspect the damage and assess how best to repair them. Any damage to your frames can usually be rectified in a week or less, although this is longer outside the UK due to shipping related delays. Any damage to the lenses will require a more extensive assessment and repair, which can take up to 28 days.
- 4. Fault cause analysis:** Will be conducted on every case of non-accidental damage in order to feed back into design and verification stages of batch production. The fault will then be rectified for every customer moving forwards.
- 5. Return & swap:** Once repaired, we will ask you to confirm a delivery address and ship your Refractives back out. Please send the courtesy Refractives back to us by Special Guaranteed delivery as soon as possible, in case other customers require them.

Warranty.

Lifetime warranty.

Limited Liability Policy

Bryant Dental will repair any issue arising from a manufacturing defect for the lifetime of the product, 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.

Conditions.

- **Ensure your Refractives are wiped with 70% isopropyl alcohol to ensure telescope longevity.**
- **Store at room temperature.**
- **Do not change or modify any of the existing components without authorisation from Bryant Dental.**

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 are 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 12, 13U/175 Lower Gibbes
St Roseville NSW 2069, Australia

Storage and shipping condition.

- **Storage at room temperature, maximum 30°C.**
- **Under normal atmospheric pressures**

Known contraindications: silicone rubber allergy or sensitivity

Failure to use the products in the specified manner for the intended purposes may result in the void of your warranty. Please use this product as dictated.

Contraindications:

- **Do not use the Magstrap, the Gesture Magstrap or iShield brackets if you have a pacemaker**
- **Silicone allergy**

Model variants .

Model Variant Name	UDI-DI	Basic-UDI-DI
BD Refractive P3.8x Ignis 3.0	5060678496623	506067849RH2JV
BD Refractive P5.7x Ignis 3.0	5060678496630	506067849RH2JV
BD Refractive P7.8x Ignis 3.0	5060678496647	506067849RH2JV
BD Refractive P3.8x Halo 2.0	5060678496654	506067849RH2JV
BD Refractive P5.7 x Halo 2.0	5060678496661	506067849RH2JV
BD Refractive P7.8 x Halo 2.0	5060678496678	506067849RH2JV
BD Refractive P3.8x	5060678499655	506067849RH2JV
BD Refractive P5.7x	5060678499662	506067849RH2JV
BD Refractive P7.8x	5060678499679	506067849RH2JV
Ignis 3.0	5060678494322	506067849RH2JV
Halo 2.0	5060678490423	506067849RH2JV
Ignis 3.0 Battery	5060678494919	506067849RH2JV
Halo 2.0 Battery	5060678492175	506067849RH2JV

Important information.



Follow instructions for use.



Do not dispose.



This device is not sterile.



Do not use if package is damaged.



Fragile, handle with care.



Keep dry.



Operating temperature limit.



Meets requirements of MDR.



WARNING! Choking Hazard. Please ensure that headlight filter is tightened before use.



Nosepads are tightened and checked before shipment but may become loose in transit, please use the enclosed screwdrivers to tighten before use.



If any part of the Refractives appear loose, please immediately cease use and contact BD. Do not attempt to reattach.



Do not use any non approved headlights as these can damage the structural integrity of the loupes, Refractives and optics.



Keep the device a minimum distance of 25cm from the patient.



Do not use if you have a silicone rubber allergy.



Use of loose components carries with it a serious risk of choking.



This device contains magnets which should not be used if you have a pacemaker, or with patients with pacemakers.



Our Magstrap, Ignis Magstrap and all other headlight magstraps including the Gesture Magstrap contain magnets and should not be used with patients who have pacemakers or by dentists with pacemakers.



Do not touch the light when on, it can become very hot and cause burns and other injuries.



Do not look directly into the light output.



Angular adjustments must only be made when the Ignis Gesture is at room temperature to avoid potential burn.



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 use if you have a pacemaker.



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.



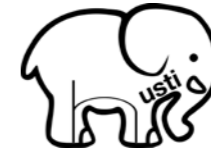
Do not expose batteries to naked flame.



Possible hazardous optical radiation emitted from this product. Do not stare at the operating lamp. May be harmful to your eyes - Risk group 2.



Bryant Dental
The Barns, Hilltop Farm, Lyne Lane, Chertsey,
KT16 0AW, U.K



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.




Bryant Dental.

Humanity, augmented.

www.bryant.dental

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

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