

# NORTH



## Focals Important Information Guide

*This Important Information Guide contains safety, operating, disposal, and regulatory information for Focals and accessories. Read all safety information and operating instructions below before using Focals to avoid injury or damage.*

*For the latest version of this Important Information Guide, visit [bynorth.com/start](https://bynorth.com/start)*

*While wearing Focals, press the power button 5 times to get regulatory information on your display.*

*For Warranty and Return Policies, visit [bynorth.com/legal](https://bynorth.com/legal)*

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# Device Care

A battery case is provided with Focals for charging and storage purposes. When charging the battery case, use only the wall adapter and USB-C Cable included. For cleaning, a microfiber cloth is also included.

When not in use, Focals and accessories should be stored in the battery case in a dry environment safe from natural elements that may harm them such as extreme cold or warm temperatures, wet, or excessive moisture environments.

Dust, dirt, and foreign materials on the projector window may reduce the display quality of Focals. When cleaning Focals, only clean the external surfaces of the product. Do not attempt to open the device. Use a dry cloth to gently wipe the surface and standard glasses lens solution to clean the lenses and projector window. In addition, excessive cleaning or pressure while cleaning the lenses may result in reduced optical performance of prescription lenses and the display.

Focals does not contain removable or serviceable internal parts and should not be opened in any way. Any evidence of disassembly or opened components will void the product warranty.

## Safety & Warnings

CLASS 1 LASER PRODUCT. This product is in conformity with performance standards for laser products under 21 CFR 1040, except with respect to those characteristics authorized by Variance Number FDA-2018-V-2346 effective on August 8, 2018.

The transparent near-eye display is for entertainment purposes only and is not intended to diagnose/ treat any medical condition or provide any medical information.

Never operate Focals with the projector unit, projector window, temple pods, or any other internal components when they are open, damaged, or removed. It is important that you do not attempt to open, disassemble or tamper with the temple pods, projector unit, projector window, or any other internal components. Modifying or circumventing the controls or safety measures of Focals may result in exposure to hazardous radiation. Do not use if the battery is leaky or damaged.

Your use of Focals must always be in compliance with applicable laws and regulations covering use of portable electronic devices, such as traffic laws, airport regulations, etc. If you choose to use Focals while engaged in an activity which requires attention without which could put yourself and/or those around you at risk, please do so safely and responsibly.

Do not use Focals while driving, using heavy machinery, or performing hazardous activities.

Focals are not recommended for use if you experience or have the following conditions:

- Functional left eye vision only;
- Inherited retinal conditions (including Retinitis Pigmentosa, Leber's Congenital Amaurosis, Stargardt's Macular Dystrophy, Best's Disease, Fundus Albipunctatus, and Oguchi Disease);
- Diagnoses with any macular degenerative changes;
- Right eye gaze restriction;
- Extreme photosensitivity or glare concerns and/or you require tinted lenses;
- You require iseikonic lenses, as the base curves of the lenses are set and cannot be specified; or
- You require UV protection in your spectacle prescription.

Focals are not intended for use as safety glasses.

Please seek out the advice of your medical or optometric practitioner if you have any concerns.

If you have any questions about using Focals safely, please contact North at [support@bynorth.com](mailto:support@bynorth.com).

## Operating Environment

Focals are designed for users aged 14 and up and compatible with Android smartphones and iPhones (5S and newer). The North App supports Android OS versions 5.0+ and iOS versions 10+.

Focals are designed to be operated within an ambient temperature range of -10°C to 40°C, and will work optimally for ambient temperatures between 5°C and 40°C. Temporarily, the display may be less clear and the hue may change if the temperature is below 10°C and above 40°C.

Focals are designed for an IP55 rating, meaning you have protection from water, dirt, and grime. Loop is designed for an IP66 rating. While both Focals and Loop are water resistant, they are not waterproof. The charging case is not IP rated and is not waterproof.

Focals communicate with a smartphone and Loop through a Bluetooth connection. For best performance, maintain a distance of less than 10m (32ft) between the glasses and smartphone, and less than 3m (9ft) for Loop.

For the best charging performance, charge Focals and Loop in an environment with an ambient temperature range of 10°C to 40°C and only with the included battery case.

To ensure a long life for Focals, Loop, and the battery case, avoid using them in environments with significant airborne particulates, such as dust, smoke, salt, dirt, etc.

Focals may become warm under heavy use however, Focals should not overheat or cause thermal discomfort during normal use. If the product causes discomfort or seems hotter than normal, stop using it and contact North at [support@bynorth.com](mailto:support@bynorth.com).

## Device Information

Use the **Device Information** menu item in the North app to get information like device names, current Focals software versions, and battery performance.

## Specifications

Weight and dimensions for Focals and Loop depend on frame style, prescription, and Loop size.

Focals

<b>Length (mm)</b>	<b>Bridge (mm)</b>	<b>Width (mm)</b>	<b>Weight (g)</b>
164	16-22	132-160 (2mm increments)	61-80

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Loop

<b>Width (mm)</b>	<b>Thickness (mm)</b>	<b>Size range</b>
11	5	6-15

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Battery Case

<b>Width (mm)</b>	<b>Height (mm)</b>	<b>Depth (mm)</b>
172	71	107

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Sun Clips

**Category 3 tint**

**UV 400 protection**

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**Battery and Performance**

Focals and the battery case use built-in rechargeable lithium-ion batteries.

With a capacity of 700mAh, you can use Focals for up to 18 hours (intermittent use).

The battery for Loop allows up to 3 days of intermittent use.

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**Prescription Range**

-4 to +2 SPH up to -2 CYL. No ADD (progressive) support

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**Processor**

QC 8909W Processor

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**Sensors**

9-axis inertial measurement unit (IMU), Proximity (wear) Sensor, Microphone, Speaker, Indicator LED, Ambient Light Sensor

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**Display**

14 degree field of view (diagonal) full colour display

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**Resolution**

110 x 110 pixels

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**Communication**

Bluetooth 4.2 Classic and Low Energy

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## Dermatological Sensitivity

Focals are constructed of lightweight die-cast aluminum and Swiss Grilamid and Loop is made of polycarbonate. Charging contacts for both Focals and Loop are gold-plated stainless steel.

In light of recent dermatological issues with other wearables, we have been very careful with the selection of our materials. Materials were chosen to have as little potential to react with the skin as possible. However, as with any type of jewelry, some people may experience skin irritation. Numerous factors can cause an allergy, such as reactions to bacteria that can accumulate on the surface of the materials of Focals or Loop, a reaction between Focals or Loop and soap or perspiration, or an allergy to the material of Focals or Loop.

## Disposal and Recycling

Disposal of Focals, Loop and/or packaging must be in compliance with any applicable laws or regulations of jurisdiction. For more information, contact [support@bynorth.com](mailto:support@bynorth.com).

## FCC Compliance Statement

**Focals FCC ID:** 2ACKV-TL1A

**Loop FCC ID:** 2ACKV-TL1B

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this device.

**Note:** This device has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This device 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 device does cause harmful interference to radio or television reception, which can be determined by turning the device 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 device and receiver.
- Connect the device 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.

## FDA Certification

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## Canada Compliance Statement

**Focals IC:** 12013A-TL1A

**Loop IC:** 12013A-TL1B

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

1. This device may not cause interference.
2. This device must accept any interference, including interference that may cause undesired operation of the device.

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique 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;
2. L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement

## Other Agreements

Use of Focals in conjunction with the North application constitutes acceptance of any applicable North and/or third-party software license terms covering use of the App. Your use of the Focals product is subject to our Privacy Policy, and the North Terms of Sale, which includes the Focals warranty. Visit [bynorth.com/legal](http://bynorth.com/legal) for more information.