

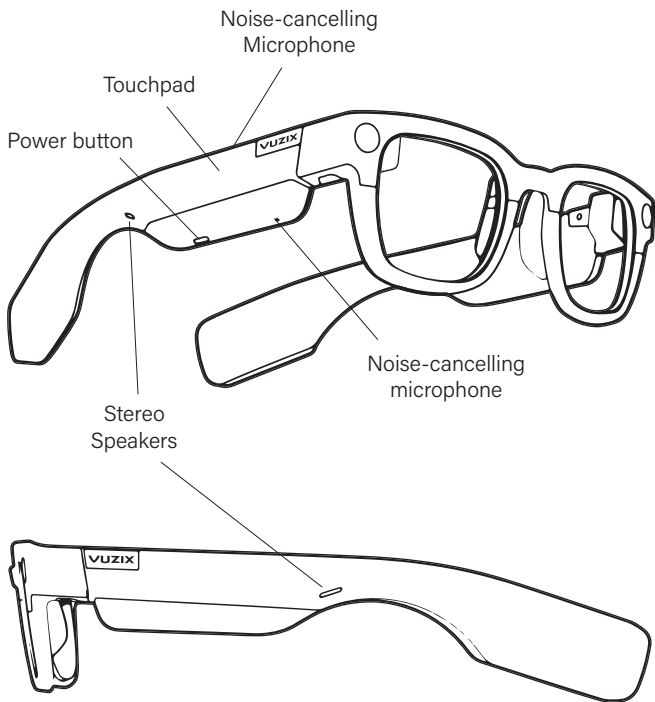


# **VUZIX SHIELD™**

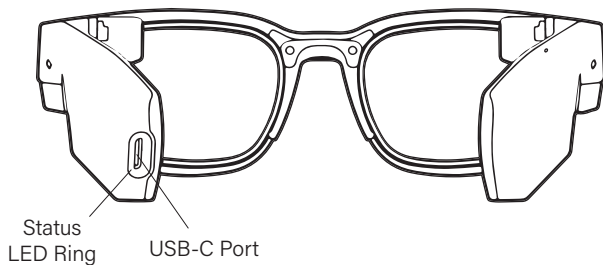
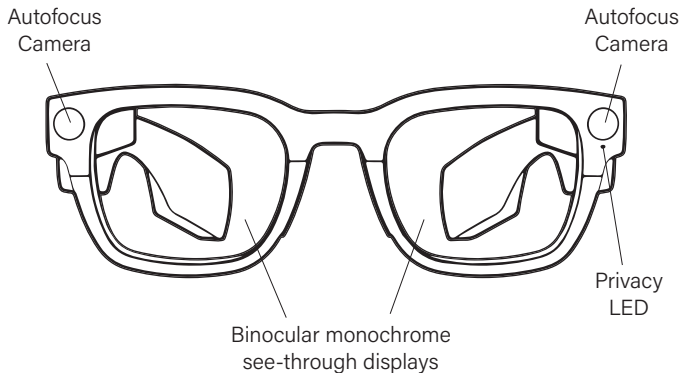
User Manual

Model 492




# Overview



# Overview



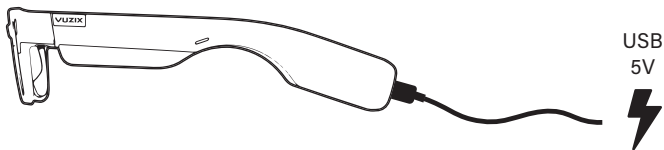
# What's Included

<p>Vuzix Shield™ Smart Glasses</p> 	<p>Storage Case</p> 	<p>USB-C to USB-C Cable</p> 
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## Charging

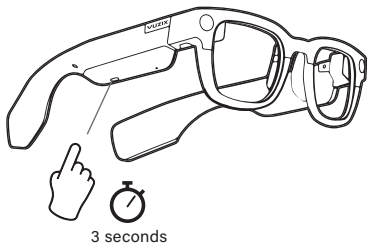
**i** *Your Vuzix Shield™ is shipped with a partial charge. It is recommended that the battery be fully charged for first time use.*

To charge the device, connect the USB-C Port to a USB 5V power source with the USB-C cable



## Powering On

To power the device on, press and hold the Power Button on the bottom of the right temple for 3 seconds.



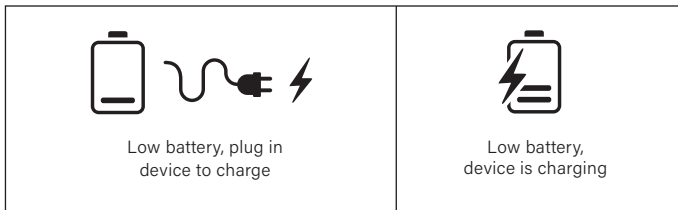
## Powering Off

To power the device off, press and hold the Power Button for 3 seconds. Select and tap "Power Off" from the menu.

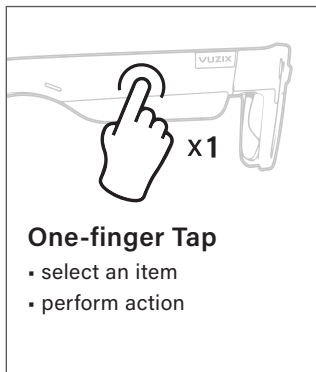


## Battery State

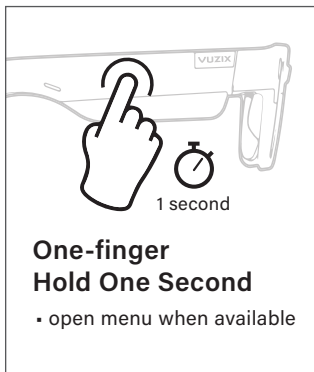
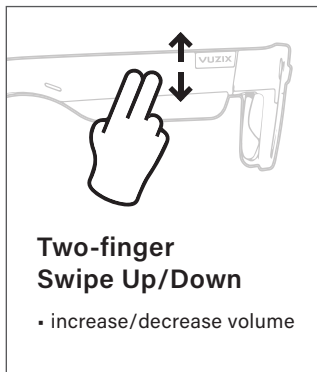
If the device does not power on, the following icons may appear:



# Touchpad Gestures



## Touchpad Gestures, CONTINUED

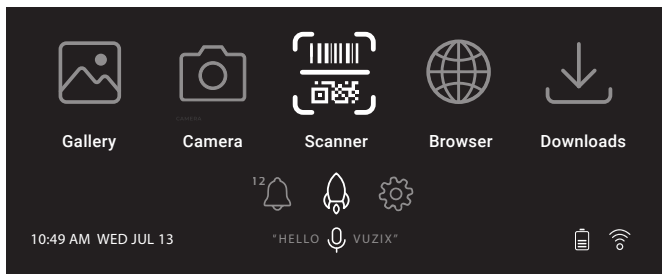


# Home

## Launcher

On boot-up, Home will display automatically with the Launcher selected. Swipe left/right to select an app, tap to launch.

 *Note: Actual interface and icons may vary.*



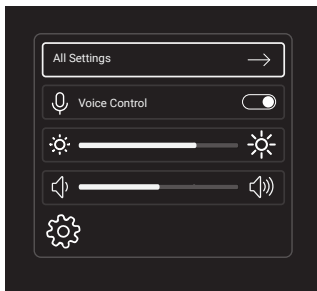
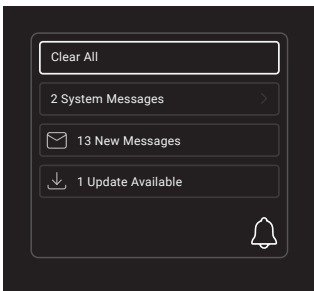
## Home, CONTINUED

### Notifications Quick Settings

To navigate to Notifications or Quick Settings, swipe down from the Launcher, left/right to select the icon, then one-finger tap.



*Note: Actual interface and icons may vary.*



Within Notifications and Quick Settings, swipe up/down to navigate items, one-finger tap to select, then swipe or tap to adjust. Two-finger tap to exit and return to Launcher.

# WiFi Quick Connect

The easiest and fastest method to connect your Vuzix smart glasses to WiFi is by using a QR code:

Visit [www.vuzix.com/wifiQR](http://www.vuzix.com/wifiQR) on your phone or computer to securely generate a QR code for your WiFi settings.

**Launch the Scanner app** on your smart glasses and look at the QR code to connect to your network.

Example:

WIFI NAME

PASSWORD

ENCRYPTION

HIDDEN NETWORK

**GENERATE**



# Applications / Standards

The Vuzix Shield safety spectacles are designed to protect the user against eye injuries through mechanical impact and flying particles. The Vuzix safety spectacles will ensure a secure and comfortable fit and protect against common hazards.

This product can be used in a wide range of applications including:

- Construction
- Engineering
- General assembly
- Inspection work
- Light duty maintenance and repair

These safety spectacles do not provide unlimited eye protection. For your own protection read these instructions completely before using this eye protection.

This protective eyewear has been shown to meet the basic safety requirements under Directives 2001/95/EC and comply with the requirements of (EU) Regulation 2016/425. This product has been examined at the design stage by DIN CERTCO Gesellschaft für Konformitätsbewertung mbH, Alboinstr. 56, 12103 Berlin, Germany; Notified Body: 0196. This product was tested, and approved against EN 166:2001 and EN 170:2002 ANSI\_ISEA Z87.1:2015.

The applicable regulations can be viewed at the EU Declaration of Conformity link:

**<https://www.vuzix.com/support/legal>**

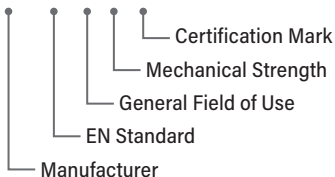
# Eye Protection Marking

## Frame Markings

EN166

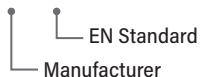
VUZ 166

S CE



Z87.1

VUZ Z87



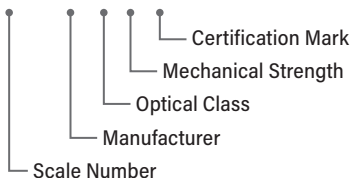
## Lens Markings

EN166

2C-1,7

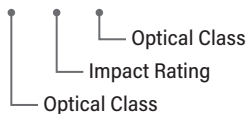
VUZ 1

S CE



Z87.1

VUZ Z87 U5



*Note: If the symbols of the marking are not common to different parts of the protection equipment, the lower protection level shall be assigned to the complete protection equipment.*



*Note: If the General Field of Use is not a T, then the eye protector shall only be used against high speed particles at room temperature.*

# Optical Quality and Useful Life

The Vuzix Shield design provides excellent coverage and good field of vision.

Optical class 1 lenses are particularly suitable when a high level of visual performance is required while protecting the human eye against damage that could result in defective vision, even when worn for prolonged periods of time.

## EN166 Optical properties

<b>Optical class</b>	<b>Spherical refractive power</b>	<b>Astigmatic reflective power</b>
Class 1	± 0.06 dpt.	± 0.06 dpt.
Class 2	± 0.12 dpt.	± 0.12 dpt.
Class 3	± 0.12, -0.25 dpt.	± 0.25 dpt.




When stored correctly at a cool and dry place without use, the maximum lifetime of a safety eyewear product is 6 years. Depending on the intensity of use and wear caused by external influences, the maximum life of a product is 2 years. If protective eyewear has been scratched or otherwise damaged it must be replaced.

# General Warnings

- Always perform a visual inspection of the glasses prior to use.
- Pitted or scratched lenses reduce vision and seriously reduce protection and should be immediately replaced.
- Eye and face protectors that have been subjected to an impact should not be used and should be discarded and replaced.
- This product is for eye protection against moderate impact hazards but is not unbreakable.
- Do not use this product against hazards other than those specified in this document.
- Do not modify or alter the product.
- Always check with supervisory personnel to ensure you are being given the proper protection relative to working conditions.
- No parts of the safety spectacles which are in contact with wearer are made of materials which are known to cause any skin irritation. The material of the eye-protection, which is directly in contact with skin, will not do any harm to the skin. But to those who are easily allergic, there might be allergic reactions.
- Safety spectacles that protect against high speed particles worn over ophthalmic spectacles may transmit impacts, thus creating a hazard to the wearer.
- In accordance with EN 166:2001 and EN 170:2002 safety spectacles cannot be tested and approved for use against liquid droplets. Where liquid protection is specified a suitable product should be considered, for example safety goggles.
- This product is not suitable for grinding or welding.
- This eye protector only protects against physical hazards.

# Cleaning

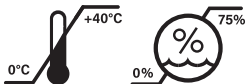
Treat your Shield as you would any quality eyewear. It is mostly maintenance free and only requires to be wiped down periodically, using only a microfiber cloth to clean the device.

-  *Caution: Do not spray with cleaners. If required, use microfiber cloth moistened with standard eyeglass cleaner. Avoid spills. Solvents, household cleaners and paper towels should never be used on your Vuzix Shield.*
-  *Caution: Vuzix Shield is not water resistant. Avoid submerging or exposure to moisture. Excessive moisture will damage the device.*
-  *Caution: Do not pack loose objects in the zipper case with the Shield. Loose objects may cause damage to the device.*

# Climate

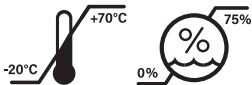
## Operation:

0 to 40°C, 0 to 75% RH



## Storage:

-20 to 70 °C, 0 to 75% RH



# Usage

SAR limits are usually expressed in units of W/kg. Shield has been tested at its highest transmission levels and placed in a position that simulates use against the head with no separation.

Shield maximum determined SAR value over all possible transmission modes is 1.06 W/kg, averaged over 1gm of tissue.

# CE Countries

## Frequency Range:

Bluetooth/BLE: 2402-2480MHz

2.4 GHz Wi-Fi: 2412-2472MHz/2422-2462MHz

5 GHz Wi-Fi: 5150-5250MHz, 5250-5350MHz,

5470-5725 MHz, 5725-5850MHz



BE	BG	CZ	DK	DE	EE	IE	EL
ES	FR	HR	IT	CY	LV	LT	LU
HU	MT	NL	AT	PL	PT	RO	SI
SK	FI	SE	NO	IS	LI	CH	TR

In all EU member states, operation of 5150-5350 MHz is restricted to indoor use only.

## RF-Output Power:

Bluetooth: 8.82dBm

BLE: 9.41dBm

2.4 GHz Wi-Fi: 19.90dBm

5 GHz Wi-Fi:

5150-5250 MHz: 22.48dBm

5250-5350 MHz: 18.92dBm

5470-5725 MHz: 19.32dBm

5725-5850 MHz: 13.87dBm

## Support

For further documentation and support scan the QR code or visit

**[vuzix.com/pages/shield-support](https://www.vuzix.com/pages/shield-support)**

For safety, warranty and regulatory information, go to the Vuzix legal page at:

**[www.vuzix.com/support/legal](https://www.vuzix.com/support/legal)**

SCAN QR FOR SUPPORT



For more information on Vuzix products and accessories visit:

**[vuzix.com](https://www.vuzix.com) | [vuzix.eu](https://www.vuzix.eu) | [vuzix.uk](https://www.vuzix.uk) | [vuzix.jp](https://www.vuzix.jp)**

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