

Compliance

Shield

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## 1 Introduction

This guide lists product information for Shield users:

Safety and warranty information: <https://www.vuzix.com/pages/safety-warranty>

Electronic Regulatory Labels: Settings > System > About > Regulatory

Legal Documentation: <https://www.vuzix.com/support/legal>

### Device information

Model: 492

Manufacturer: Vuzix Corporation  
25 Hendrix Road  
West Henrietta, New York, 14586, USA

Country of origin: USA

## 2 FCC regulatory compliance

Note: This equipment 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 equipment 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 equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment 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 equipment and receiver.

Connect the equipment 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.

Changes or modifications not expressly approved by Vuzix could void your authority to operate the equipment.

Shield complies with Part 15 of the FCC Rules. Operation is subject to the following 2 conditions:

These devices may not cause harmful interference.

These devices must accept any interference received, including interference that may cause undesired operation.

### 3 Industry Canada Notices

Industry Canada, Class B

This Class B digital apparatus complies with Canadian ICES-003.

Notice: The Industry Canada regulations provide that changes or modifications not expressly approved by Vuzix could void your authority to operate this equipment.

Industry Canada (IC) Notices

These devices comply with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions:

These devices may not cause interference.

These devices must accept any interference, including interference that may cause undesired operation of the device.

### 4 Declaration of Conformity

EU Declaration of Conformity (English) <https://www.vuzix.com/support/legal>

### 5 Human exposure to radio frequency

Like any other phone, your wireless device emits radio frequency energy (RF) during use. According to the International Commission on Non-Ionizing Radiation Protection (ICNIRP), the critical effect of RF exposure relevant to human health and safety is heating of exposed tissue.

According to the Federal Communications Commission (FCC), "Some health and safety interest groups have interpreted certain reports to suggest that wireless device use may be linked to cancer and other illnesses, posing potentially greater risks for children than adults. While these assertions have gained increased public attention, currently no scientific evidence establishes a causal link between wireless device use and cancer or other illnesses."

However, above a certain level (referred to as the threshold) depending on the duration of exposure, RF exposure and the accompanying temperature rise can provoke serious health effects, such as heatstroke and tissue damage (burns). To avoid hazards to health deriving from high RF exposure, limits are set in relation to the threshold known to show adverse effects, with an additional reduction factor to take care of scientific uncertainties. These limits are generally expressed in terms of the specific absorption rate (SAR). SAR is a measure of the rate of absorption of RF energy in the body. Tests for SAR are conducted

with the phone transmitting at its highest power level in all tested frequency bands. SAR were first established in 1996 by the FCC in the USA and they were then adopted elsewhere.

You can find additional information about SAR at the following pages:

[fcc.gov](http://fcc.gov)

[icnirp.org](http://icnirp.org)

[ec.europa.eu](http://ec.europa.eu)

Shield was tested and certified to not exceed limits in US, Canada, and EU.

Shield Model 492

EU - Highest

Head: 0.67W/g (10g) SAR

Limit 2.0W/g SAR

US/Canada - Highest

Head: 1.06W/g (10g) SAR

Limit 1.6W/g SAR