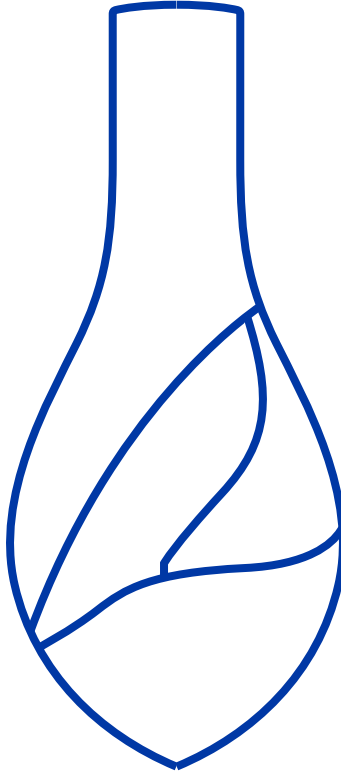


# Velodyne® | vFree



user guide and warranty

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## Important Safety Instructions

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with a dry cloth.
7. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
8. Only use attachments/accessories specified by the manufacturer.
9. Unplug this apparatus during lightning storms or when unused for long periods of time.
10. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as when the power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

## Warnings, safety & care

- To reduce the risk of fire or electric shock, do not expose vFree headphones to rain or moisture, and do not open or attempt to open vFree headphones.
- Keep out of reach of children. Small parts may be a choking hazard. This product is not intended for use by children under the age of three.
- Excessive sound pressure from earphones and headphones can cause hearing loss.
- Attention should be drawn to the environmental aspects of battery disposal.
- The integrated battery shall not be exposed to excessive heat such as sunshine, fire, or the like.
- Consult your physician or audiologist if you have problems hearing, excessive wax build-up or any discomfort after use of vFree headphones.
- In particularly dry air conditions, mild tingling may be felt on your ears. This is a result of static electricity accumulated in the body and not a malfunction of vFree headphones. This effect can be minimized by wearing clothes made from natural fibers.
- vFree headphones are assembled in a facility where they could come in contact with chemicals covered by Proposition 65.
- If any dust or ear wax is inside the ear cup, you may experience a degradation of sound quality.
- Remove vFree headphones if they cause any discomfort.
- Do not submerge or expose vFree headphones to water.
- Store your vFree headphones in the pouch when not in use.

CAUTION: Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type.

## Please listen safely

Listening with vFree headphones at high volumes may affect your hearing, including causing permanent damage. Ringing in your ears or other discomfort can indicate that the volume is too high.

Hearing health is critical to enjoyment and the quality of life. Protect your hearing by listening with your vFree headphones in a responsible manner that protects your long term hearing health. Velodyne Acoustics, Inc. is not responsible for hearing loss or damage resulting from the use of this product.

Sound	Noise Level (dB)	Effect
Normal breathing	10	Just audible
Whisper	30	Very quiet
Normal conversation	60-65	Comfortable hearing levels are under 60 dB
Vacuum cleaner, hair dryer	70	Intrusive; interferes with telephone conversation
Average city traffic	80	Annoying; interferes with conversation; constant exposure may cause damage
Lawnmower, food blender	85-90	85 dB is the level at which hearing damage (8 hrs) begins
Garbage truck, cement mixer	100	No more than 15 minutes of unprotected exposure recommended for sounds between 90-100 dB
Stereos (over 100 watts), thunderclap (near)	110-125	Regular exposure to sound over 100 dB of more than one minute risks permanent hearing loss
Jet engines (near)	140	Threshold of pain begins around 125 dB

[http://www.nidcd.nih.gov/health/education/teachers/pages/common\\_sounds.aspx](http://www.nidcd.nih.gov/health/education/teachers/pages/common_sounds.aspx)

## At a glance

## Specifications

Driver size: 34 mm

Frequency response: 20 Hz - 20 kHz

Frequency range: 2.4GHz - 2.4835GHz

Sensitivity: 98dB/1 kHz/1 mW

Impedance: 32 ohm

Power supply: lithium-ion polymer battery, 3.7V/430mAh  
(rechargeable)

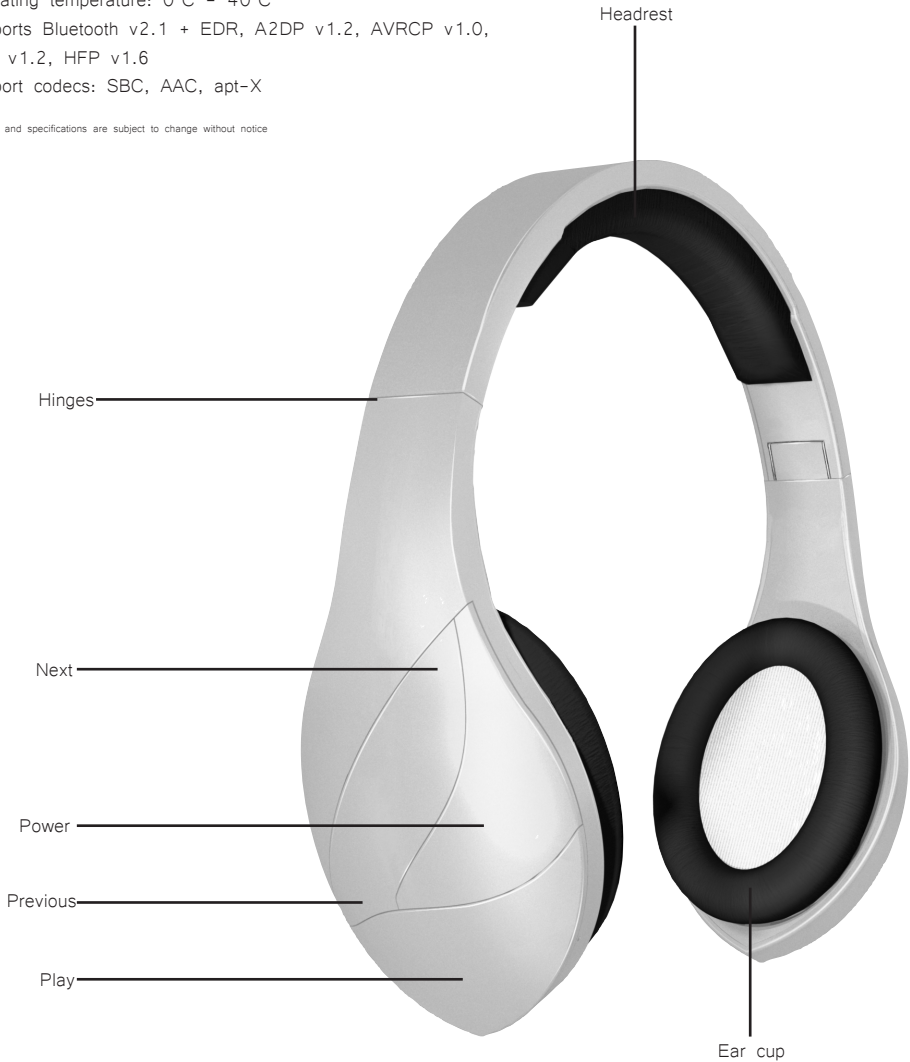
Operating temperature: 0°C - 40°C

Supports Bluetooth v2.1 + EDR, A2DP v1.2, AVRCP v1.0,

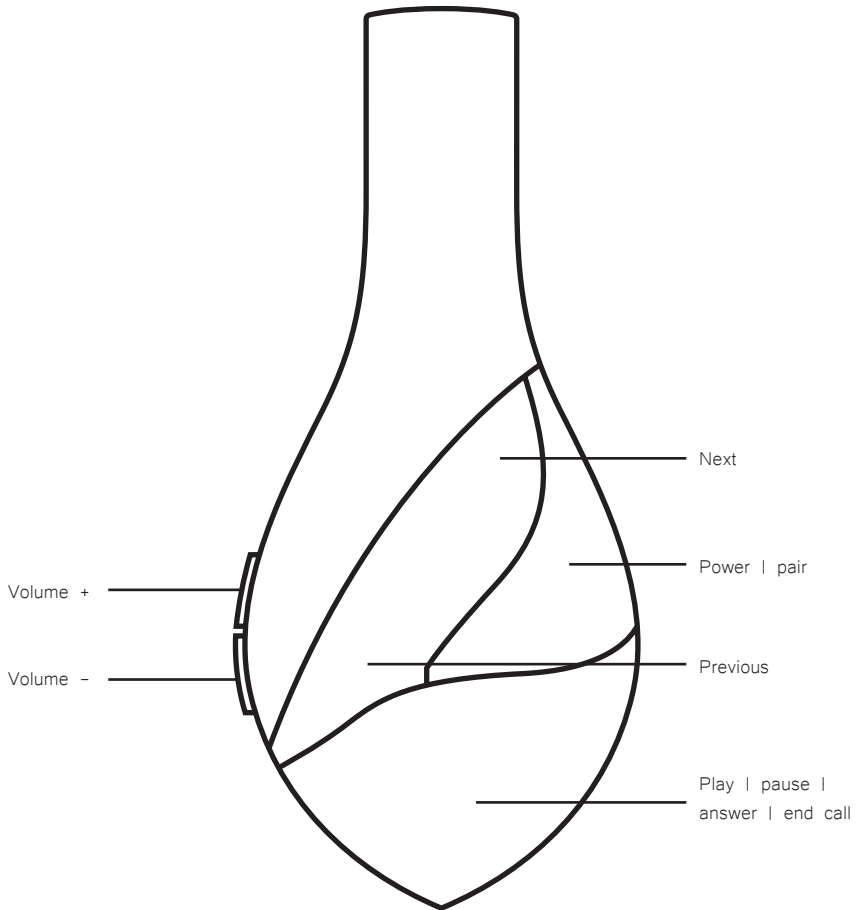
HSP v1.2, HFP v1.6

Support codecs: SBC, AAC, apt-X

\*Design and specifications are subject to change without notice



## Playback, volume, & phone controls



Important: Playback, volume, and phone control functionality varies by media device. For functionality information for your device, visit our website at [www.velodyne.com](http://www.velodyne.com).

## Charging headphones

Charging the vFree before using for the first time is recommended to maximize battery life. Low battery is indicated by the LED status indicator flashing red approximately every 10 seconds.

To begin charging, connect the USB cable (micro USB end) to the port at the bottom of the left ear cup. Connect the other end of the USB cable to any available USB port. Your vFree headphones will begin charging, as represented by the red LED status indicator. Once charging is complete, the LED status indicator will display green.

Charge time	About 1.5 hours
Talk time	Up to 10 hours
Music playback time	Up to 10 hours
Standby time	Up to 100 hours
Transmission range	Up to 10m (33 feet)

## Pairing headphones

1. Make sure vFree and pairing device is within 1 meter when pairing
2. Enable Bluetooth function on pairing unit
3. Put the vFree into pairing mode by pressing the power button
4. Search for Bluetooth devices on pairing unit
5. Press and hold the power button on the vFree
6. Select Velodyne vFree from the pairing unit
7. After successful pairing, the LED indicator will flash blue every 5 seconds

## By-pass cable

When the by-pass cable is plugged in, the speaker is connected to the cable directly and the audio can only pass through from the cable to the speaker. Bluetooth will be automatically turned off.

## Button functions











Button	Function
Power   pair	Long press (3 seconds) - power on Long press while off (5 seconds) - pairing Press and hold > 3 seconds - power off
Play   pause   call	Short press - play/pause Short press (while calling) - answer/end call
Volume up (+)	Increase volume (maximum level indicated by beep)
Volume down (-)	Decrease volume
Next	Press once to go to next track Press and hold to fast forward
Previous	Press once to go to previous track Press and hold to rewind

## Reset functions

Paired device list reset	In off mode press and hold the power and volume down (-) key. The LED indicator will flash fast alternating red and blue.
Hardware reset (use if the headset malfunctions and is unresponsive)	While charging the headset press both the power and volume up (+) keys.



## LED indications

	Power on
	Power off
	Clear   reset
	Low battery
	Bluetooth pairing mode
	Incoming call   outgoing call
	Standby (Bluetooth off)
	Active call   standby
	Standby   AAC
	Standby   apt-X

LED Activity	Function
Fast flashing (blue) x 5	Power on
Fast flashing (red) x 5	Power off
Fast flashing (red/blue)	Pairing
Flashing (red) every 10 seconds	Low battery
Flashing (blue) x 2 every 5 seconds	Paired
Flashing (red) x 2 every 5 seconds	Standby (Bluetooth off)
Alternating (red/blue) flashing x 3	Clear setting   reset
Flashing (blue) x 2	A2DP active with SBC codec
Flashing (blue) x 3	A2DP active with AAC codec
Flashing (blue) x 4	A2DP active with apt-X codec
Fast flashing (blue)	Incoming   outgoing call
Fast flashing (blue) x 2	Active call
Red	Low battery
Green	Full charge

## Limited warranty – U.S. and Canada only

VELODYNE ACOUSTICS, Inc. (“Velodyne” warrants this product for a period of one year from the date of purchase against defects in materials and workmanship subject to the following conditions:

1. This warranty is void if any repairs or service covered by the terms of this warranty are made to any component of this product by anyone other than a VELODYNE factory authorized service representative.
2. VELODYNE is not responsible for damage caused by ordinary wear and tear, cosmetic damage, incorrect connection, accidents, abuse, misuse, negligence, natural or personal disaster or unauthorized modification. This includes exposure to heat, cold, sun, liquids, sand and contaminants.
3. This warranty is limited to products purchased from authorized VELODYNE dealers and finalized within authorized dealer locations.
4. This warranty is void for products sold as-is, display models, open box, second hand, or any other times the product may have been opened or used before the purchase or acquisition of the product.
5. This warranty is void if this product is damaged due to a defect in the device which it was connected, such as a battery leak or electrical fault.
6. Proof of purchase is required. A proof of purchase is a receipt with the product and date of purchase listed from an authorized dealer.

This warranty is non-transferable under any condition. This warranty is separate and distinct from VELODYNE's subwoofer warranty.

## To obtain service

Information regarding service may be obtained from the dealer from whom you purchased the unit, or by contacting VELODYNE customer service. Warranty service must be performed by a VELODYNE factory authorized service representative within the warranty period set forth above. If VELODYNE determines that the unit is defective, VELODYNE will at VELODYNE's option, repair or replace the product at no charge if the product is forwarded prepaid to a factory authorized service representative. Products forwarded to the factory authorized service representative should be shipped securely and properly packaged, insured and postage prepaid.

Customer service contact information:

Toll free number: 866-243-0789

Technical support: 408-465-2851

Email: [service@velodyne.com](mailto:service@velodyne.com)

## Warranty outside the U.S. and Canada

The warranty of this product, if it is sold to a consumer outside of the United States or Canada, shall comply with applicable law and shall be the sole responsibility of the distributor that supplied this product. To obtain any applicable warranty service, please contact the dealer from which you purchased this product or the distributor that supplied this product.

## FCC Regulations

This device complies with Part 15 of FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation. Changes or modification not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This equipment has been tested and found to comply with the limits for 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.

## Europe - EU Declaration of Conformity

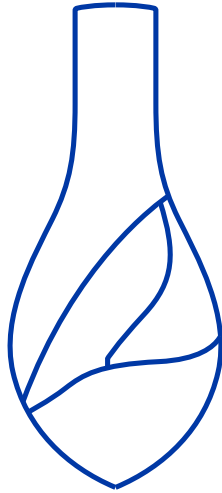
The equipment complies according to the Radio Equipment and Telecommunications Terminal Equipment Directive 1999/5/EC.

This equipment meets the following conformance standards:

Safety	EN 60065/A 12:2011
Health	EN 62479:2010
EMC	EN 301 489-1 V1.9.2 EN 301 489-17 V2.1.1 EN 55013:2001+A1:2003+A2:2006 EN 55020:2007+A11:2011
Radio	EN 300 328 V1.7.1

## Product recycling

Producing vFree headphones required the extraction and use of natural resources, and they may contain hazardous substances. Do not dispose of vFree headphones with your other household waste. Instead, take them to a designated collection point for the recycling of electronic equipment. The separate collection and recycling of your electronic waste equipment at the time of disposal will help to conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment. For information about where you can drop off your waste equipment for recycling, contact your local city government or your household waste disposal service.



Register your vFree headphones

[velodyne.com/warranty-registration](https://www.velodyne.com/warranty-registration)

Follow Velodyne Acoustics, Inc.

[velodyne.com](https://www.velodyne.com)

[twitter.com/velodyneaudio](https://twitter.com/velodyneaudio)

[facebook.com/velodyne](https://facebook.com/velodyne)

**Velodyne®**

Velodyne Corporate Headquarters  
345 Digital Drive  
Morgan Hill CA 95037