

htc®

*Confidential*



**VIVE™**

*For certification only*

VIVE 2018 Dev kit guide

*Confidential*

# Contents

## Unboxing

What's inside the box?	4
What are the system requirements?	4
Getting started	5

## Headset

About the VIVE 2018 headset	6
Putting on the VIVE 2018 headset	8
Can I wear my prescription glasses while using VIVE 2018?	11
Adjusting the IPD on the headset	11
Flipping up the visor	12
Removing the face cushions	13
Replacing the front cover	13
Connecting a USB device to VIVE 2018	15
Reattaching the front and back pads to the headset	17
Removing the front and back pads	18
Plugging in the earphones	18
Attaching the on-ear headphones to the headset band	19
Detaching the on-ear headphones from the headset band	27
Attaching the cable guides to the headset band	28
Detaching the cable guides from the headset band	29
Attaching the top strap to the headset band	32
Detaching the top strap from the headset band	33
Updating the headset firmware	33
What does the status light on the headset mean?	34
Cleaning the headset lenses	34
Cleaning the face cushions	35

## Link box

About the link box	36
Connecting the headset to your computer	36
Restarting the link box	37

## Controllers

About the VIVE 2018 controllers	38
Inserting the batteries into the controller	39
Removing the batteries from the controller	40
Attaching the lanyards to the controllers	41
Turning the controllers on or off	41
Pairing the controllers with the headset	41

## Trademarks and copyrights

## Index

## About this guide

We use the following symbols to indicate useful and important information:



This is a note. It provides detailed information for setup, common questions, and what to do in specific situations.



This is a tip. It will give you an alternative way to do a particular step or procedure that you may find helpful.



This indicates important information that you need in order to accomplish a certain task or to get a feature to work properly.



This is a warning. Take note to avoid potential problems or prevent damage to your hardware.

Information contained in this guide may have changed. For the most up-to-date information, including the latest version of this guide, go to [VIVE Support](#).

Before using the product, carefully review VIVE safety information and follow all product safety and operating instructions on <https://www.vive.com/us/legal/>.

Confidential

For certification only

# Unboxing

## What's inside the box?

Your VIVE 2018 comes with the following items, which you'll use to experience immersive VR environments:

Main component	Accessories
VIVE 2018	<ul style="list-style-type: none"> <li>▪ Headset cable (attached)</li> <li>▪ Audio cable (attached)</li> <li>▪ On-ear headphones (attached)</li> <li>▪ Top strap (attached)</li> <li>▪ Face cushion frame with cushions (attached)</li> <li>▪ Headset cable guide</li> <li>▪ Audio cable guide</li> <li>▪ Rubber pad</li> <li>▪ Screws (x4)</li> </ul>
Link box	<ul style="list-style-type: none"> <li>▪ Power adapter</li> <li>▪ DisplayPort™ cable</li> <li>▪ USB 3.0 cable</li> </ul>
Controllers (x2)	<ul style="list-style-type: none"> <li>▪ Lanyards (x2)</li> <li>▪ Alkaline AA batteries (x4)</li> </ul>

## What are the system requirements?

To use VIVE 2018, your computer must meet the following system requirements.

To find out if your computer is ready for VR, download and run the [Vive Quick Compatibility Check](#).

Component	Recommended system requirements	Minimum system requirements
<b>Processor</b>	Intel® Core™ i5-4590/AMD FX™ 8350 equivalent or better	Intel Core i5-4590/AMD FX 8350 equivalent or better

Component	Recommended system requirements	Minimum system requirements
<b>GPU</b>	NVIDIA® GeForce® GTX 1070/ / Quadro P5000 equivalent or better, AMD Radeon™ Vega 56 equivalent or better	NVIDIA GeForce GTX 970, AMD Radeon R9 290 equivalent or better
<b>Memory</b>	4 GB RAM or more	4 GB RAM or more
<b>Video output</b>	DisplayPort 1.2 or newer	DisplayPort 1.2 or newer
<b>USB port</b>	1x USB 3.0 or newer	1x USB 3.0 or newer
<b>Operating system</b>	Windows® 10	Windows 7 SP1, Windows 8.1 or later, Windows 10

## Getting started

To get started using VIVE 2018, check your email to download the setup file.

Run the .EXE file to install drivers and follow the step-by-step instructions for setting up the play area.

To connect the VIVE 2018 headset using the link box to your computer, see [Connecting the headset to your computer](#) on page 36.

# Headset

## About the VIVE 2018 headset

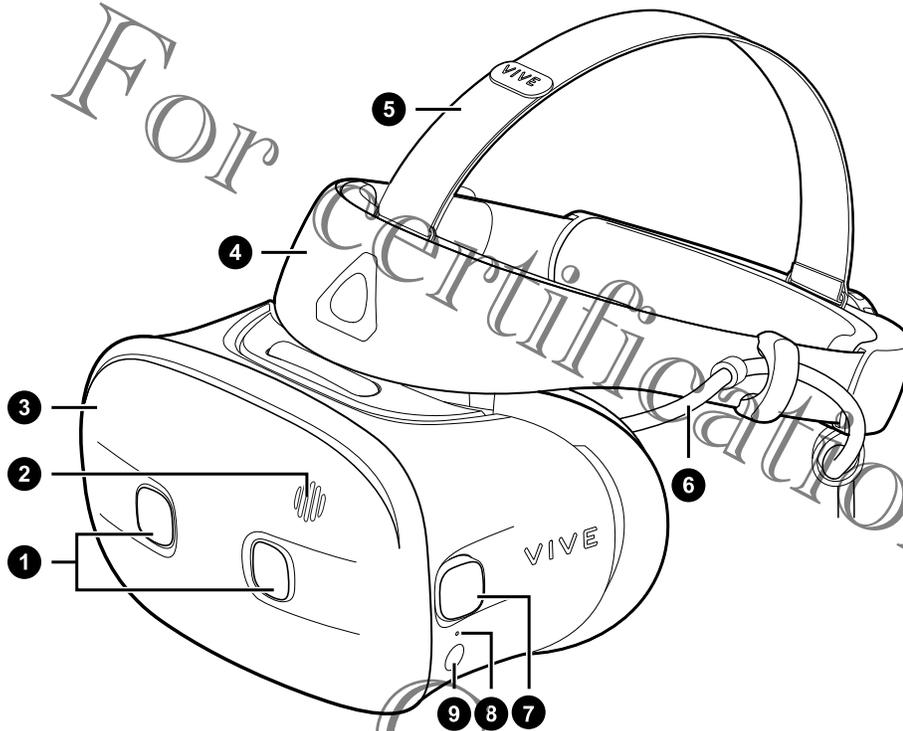
The headset is your window to the VR environment.

The headset has cameras that are used for inside-out tracking.



The cameras on the headset are sensitive. Do not cover or scratch the cameras.

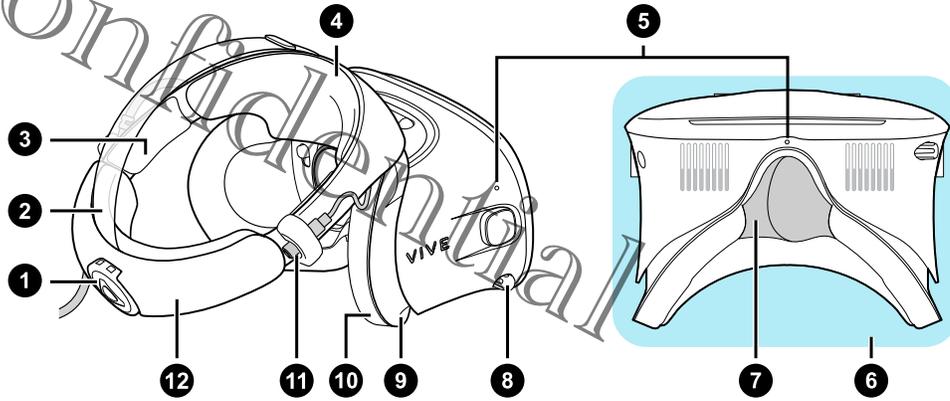
### Front and side views



1. Dual cameras
2. Vent
3. Front cover
4. Headset band
5. Top strap
6. Headset cable
7. Tracking camera

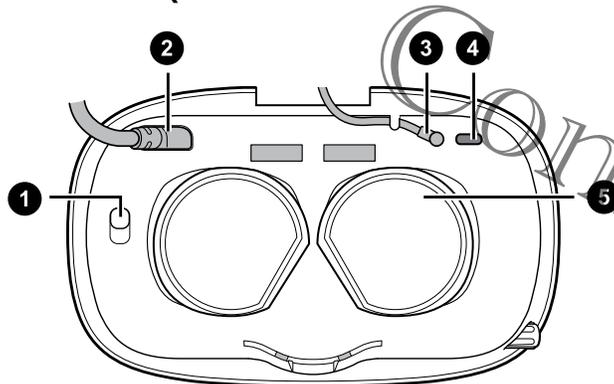
- 8. Status light
- 9. Headset button

### Back and bottom views



- 1. Adjustment dial
- 2. Back pad
- 3. Side cushion
- 4. Front pad
- 5. Mic
- 6. Visor
- 7. Nose rest
- 8. Interpupillary distance (IPD) knob
- 9. Face cushion frame
- 10. Face cushion
- 11. Audio cable connector
- 12. Headset band

### Inner view (face cushion frame removed)



- 1. Front cover lock button
- 2. Headset cable
- 3. Audio cable
- 4. USB cable slot
- 5. Lenses

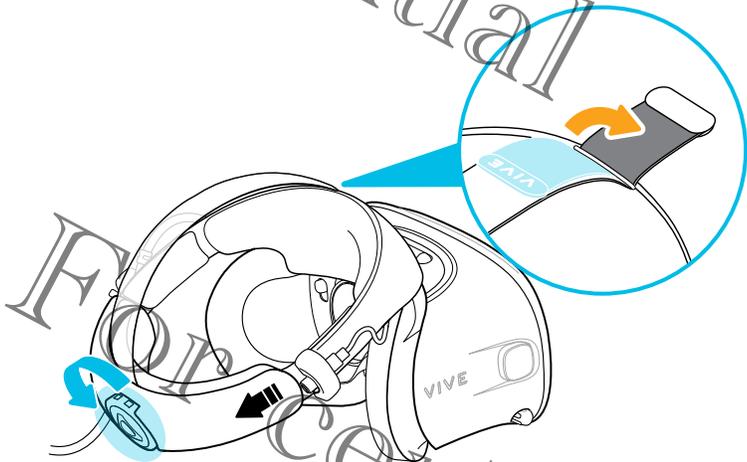
## Putting on the VIVE 2018 headset



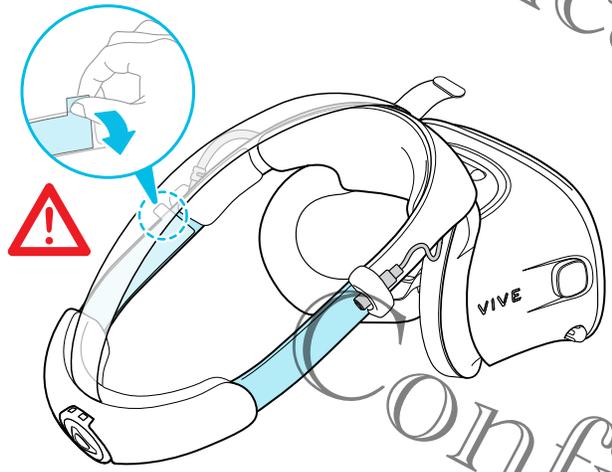
Before putting on the headset, make sure that you've peeled the protective film off of the lenses.

Remember to also plug in the earphones. For details, see [Plugging in the earphones](#) on page 18.

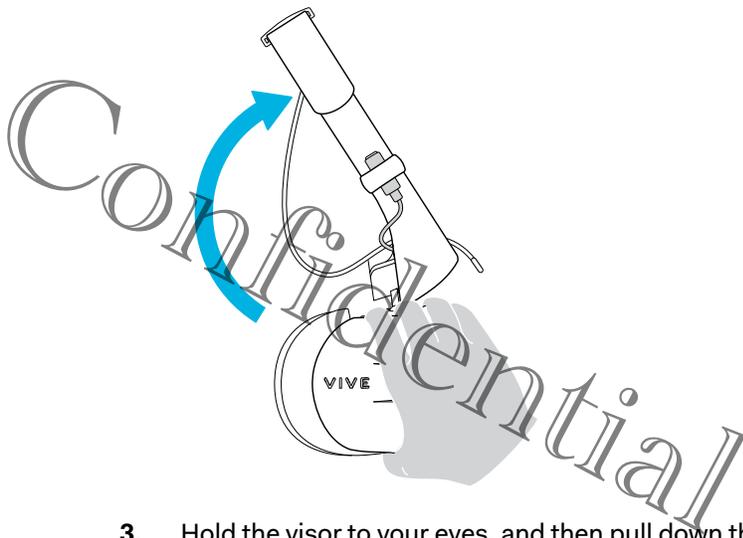
1. Loosen the band by turning the adjustment dial counter-clockwise, and then detach the velcro fastener on the top strap.



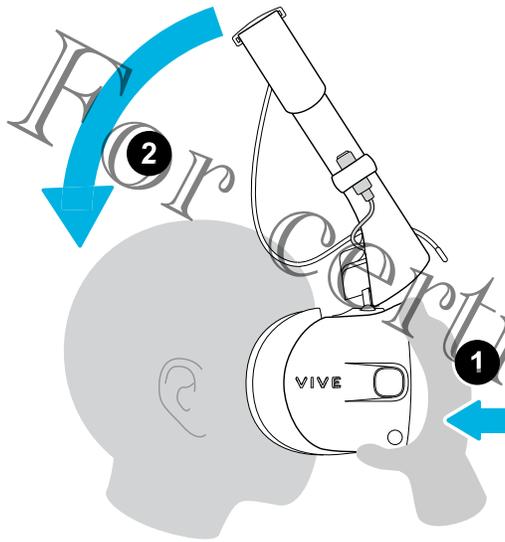
The first time you're using the headset, make sure to loosen the band fully. Then peel off the protective film starting from the left side of the band.



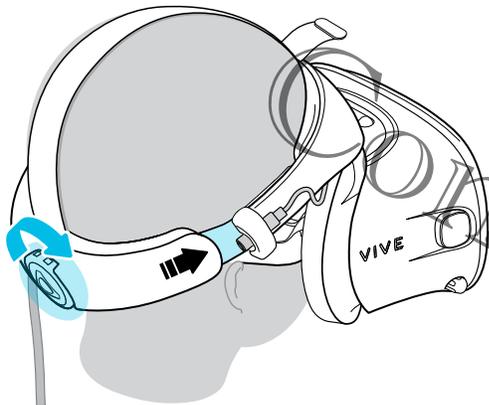
2. While holding the visor with one hand, pull up the band.



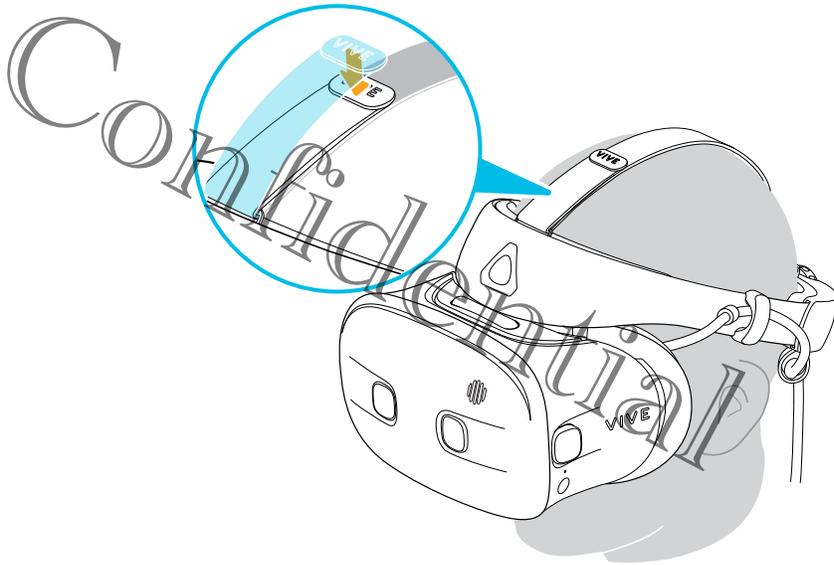
3. Hold the visor to your eyes, and then pull down the band around the back of your head. You'll hear a click when it locks into place.



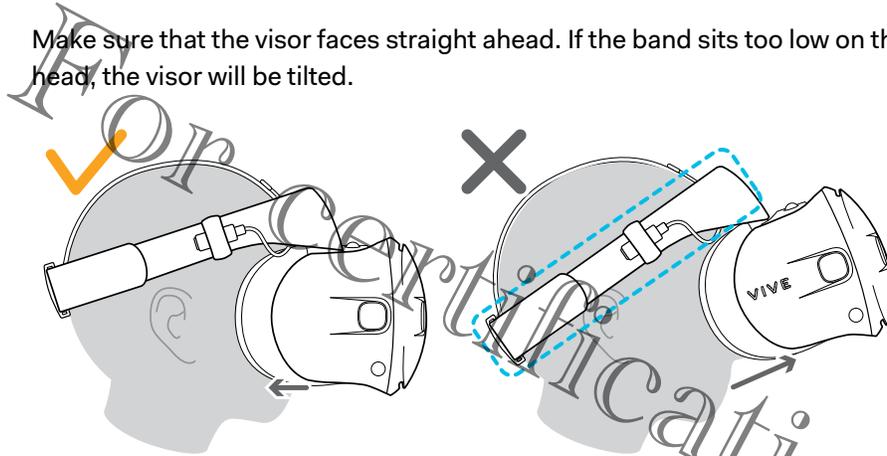
4. Turn the adjustment dial clockwise until the headset fits snugly.



5. Adjust the top strap until snug, and then fasten the velcro strap.

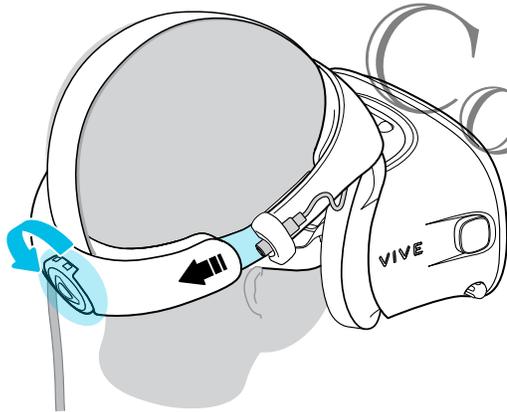


6. Make sure that the visor faces straight ahead. If the band sits too low on the back of your head, the visor will be tilted.



7. Make sure that the headset cable runs straight down your back.

When taking the headset off, remember to first loosen the band by turning the adjustment dial counter-clockwise.



## Can I wear my prescription glasses while using VIVE 2018?

Most glasses fit inside the headset.

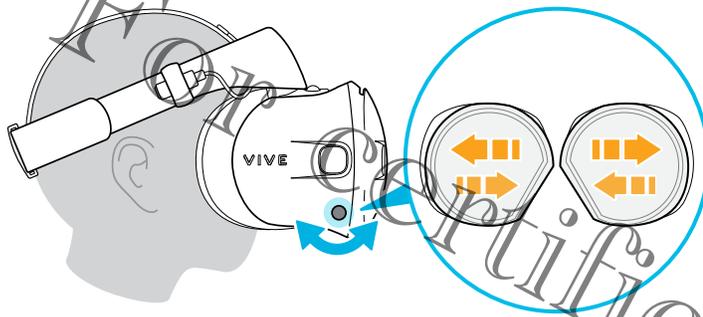


Make sure that no part of your glasses scratch the headset lenses.

## Adjusting the IPD on the headset

Interpupillary distance (IPD) is the distance between the centers of your pupils. A quick way to get an estimate is by facing a mirror and holding a millimeter ruler against your brow. Use this measurement as a guide to adjust the distance between the lenses of the headset so that you'll have a better viewing experience.

To increase the distance between the lenses, rotate the IPD knob clockwise. To decrease, rotate the IPD knob counterclockwise.



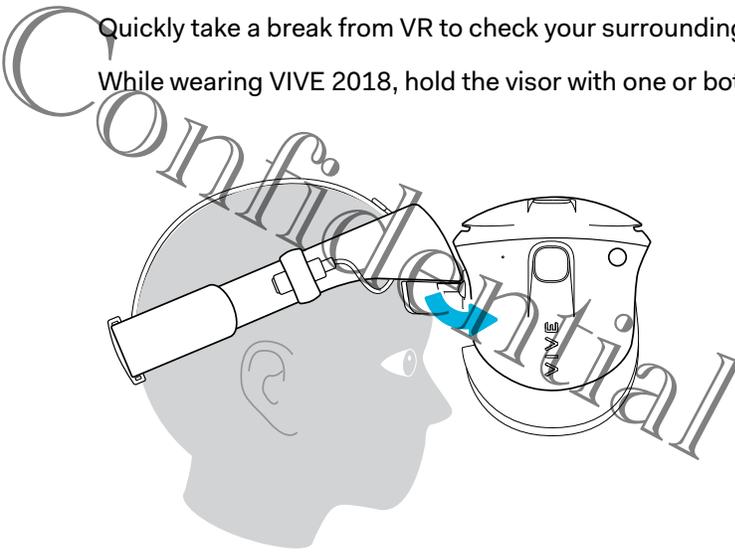
As you adjust the IPD, you'll see a prompt indicating the current distance between the centers of the lenses.

Confidential

## Flipping up the visor

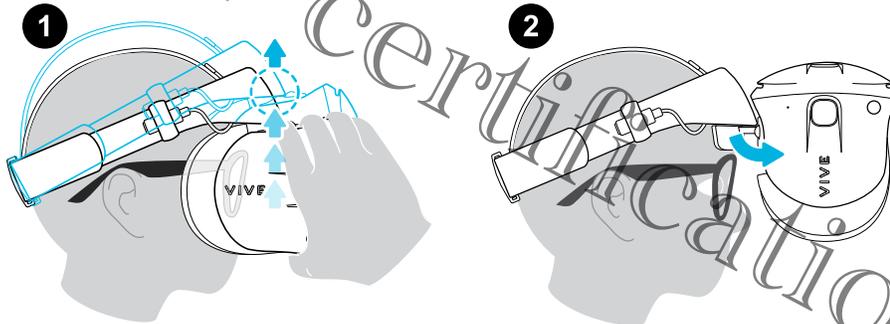
Quickly take a break from VR to check your surroundings.

While wearing VIVE 2018, hold the visor with one or both hands, and then gently flip it up.



To return it to its original position, tilt the visor down until it completely covers your eyes.

If you wear large glasses, you may need to adjust the headset to sit higher on your head when flipping the visor up or down.

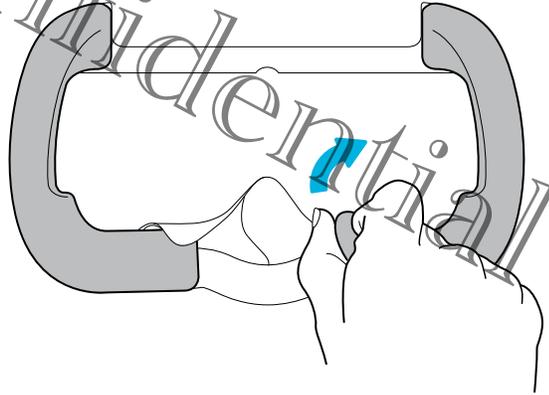


Confidential only

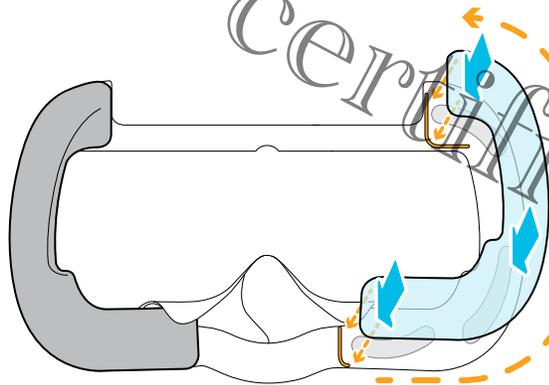
## Removing the face cushions

You can remove the face cushions for cleaning.

1. To remove the face cushions, gently peel starting from the bottom ends of each face cushion until they detach from the face cushion frame.



2. To reattach, align one end of the face cushion with the marker on the bottom part of the face cushion frame. Press down the face cushion against the outline of the frame, and then check that the other end of the face cushion lines up with the marker on the top part of the frame.



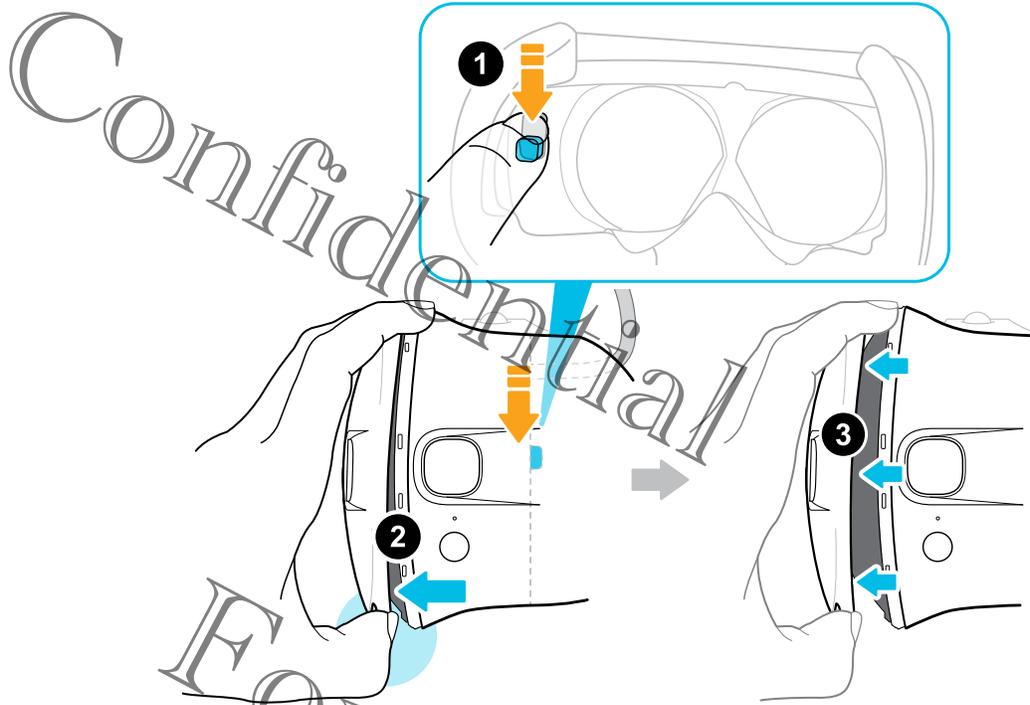
Make sure that the velcro and adhesive strips attach firmly.

## Replacing the front cover

You can replace the front cover on the headset.

1. Slide down and hold the lock button inside the compartment to unlatch the front cover.
2. Pry open the front cover starting from the bottom right corner with the visor facing you.

- Carefully pull out the front cover until it detaches from the visor.



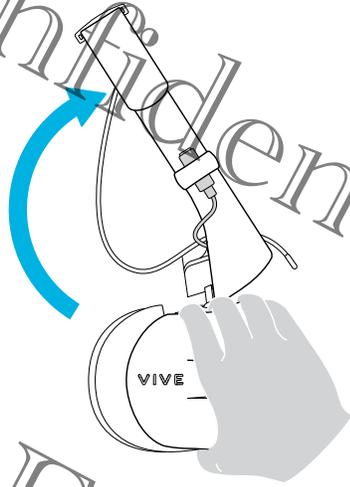
- Insert the tabs on the replacement front cover into the slots on the visor, and then press down on the front cover.
- Make sure to minimize the gap between the front cover and the visor, and that all tabs are fully locked into place.  
You'll hear a click when the front cover locks in place.

Confidential

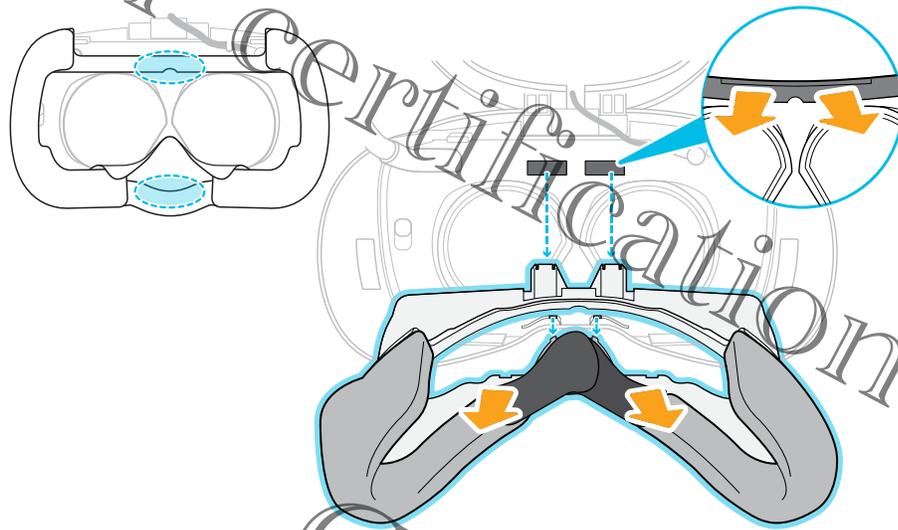
## Connecting a USB device to VIVE 2018

You can connect a compatible USB Type-C device to VIVE 2018 using a USB cable.

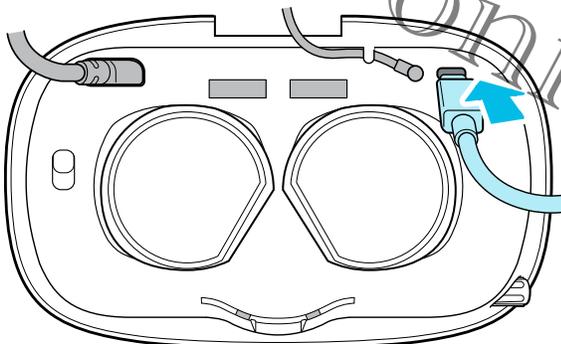
1. While holding the visor with one hand, pull up the band.



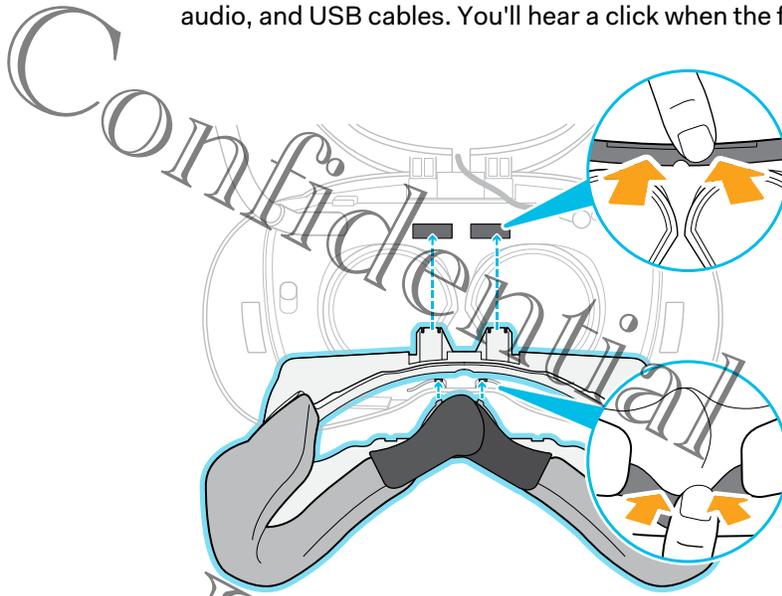
2. Detach the face cushion frame from the headset by gently pulling out the middle part of the frame from each of its latches.



3. Insert the cable connector of the device into the USB Type-C port on the headset.



4. Align and push the tabs on the face cushion frame into their corresponding slots on the headset. Make sure to position the ridge of the face cushion frame below the headset, audio, and USB cables. You'll hear a click when the face cushion frame locks in place.



5. Connect the other end of the USB cable to USB Type-C device.

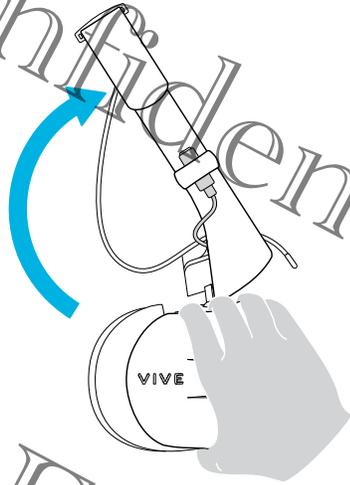
For certification only

Confidential

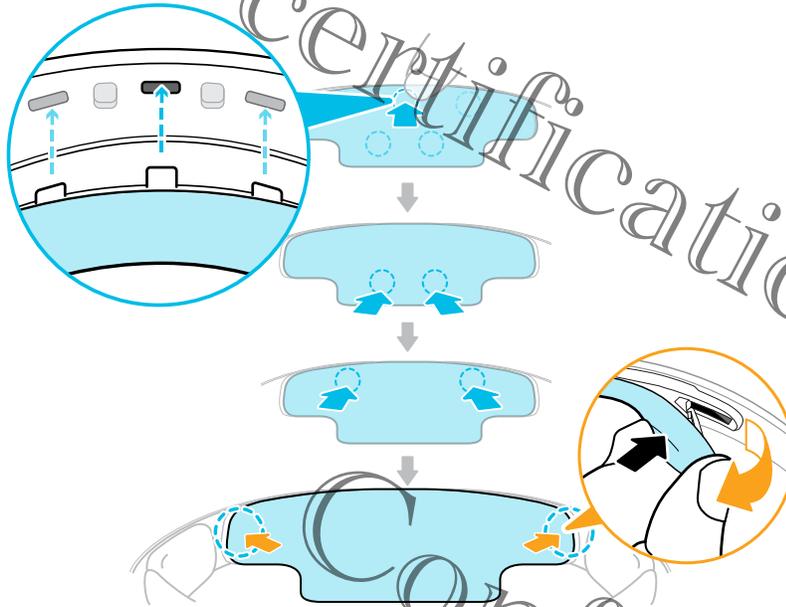
## Reattaching the front and back pads to the headset

Always make sure that the front and back pads are attached to the headset.

1. While holding the visor with one hand, pull up the band.

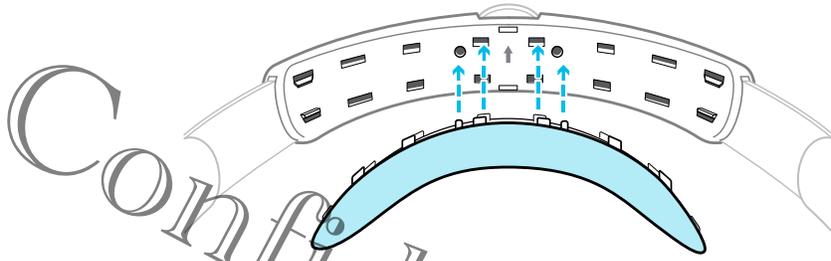


2. Starting from the middle, align the front pad tabs with their corresponding slots on the band, and then press along the front pad. You may need to gently bend the ends of the front pad to align the outermost tabs with the slots on the band.



Make sure to minimize the gap between the pad and the band and that all tabs are fully locked into place.

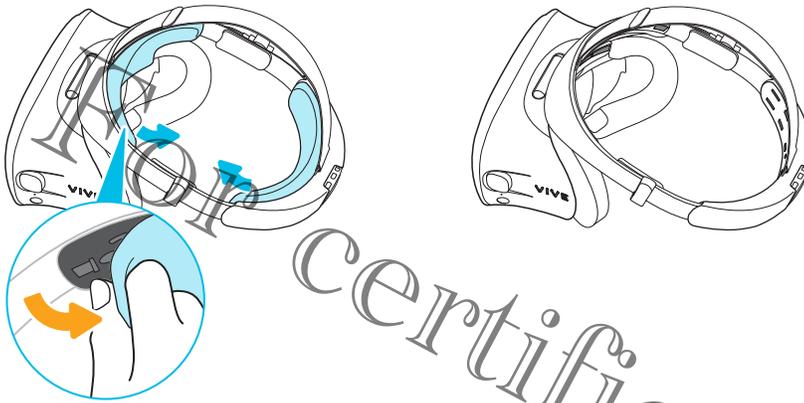
3. Align the back pad tabs with their corresponding slots on the band, and then press along the back pad to reattach. Make sure to minimize the gap between the pad and the band.



## Removing the front and back pads

You can remove the front and back pads from the headset band for cleaning.

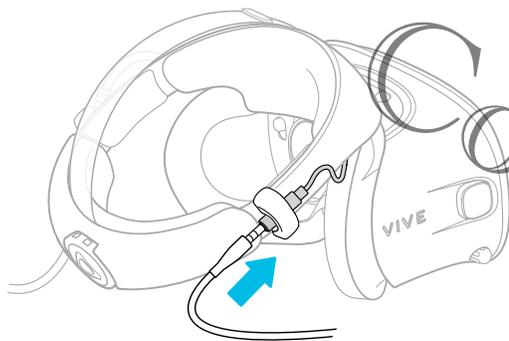
To remove the front and back pads, peel starting from the ends of each pad until they detach from the headset band.



## Plugging in the earphones

Plug in the earphones before putting on the VIVE 2018 headset.

To hear sound from your VR content, insert the earphone plug into the 3.5mm audio cable connector on the right side of the headset band.



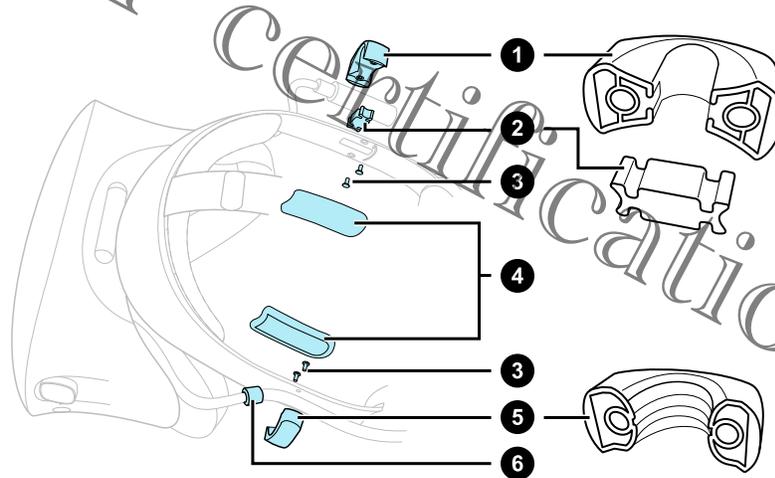
## Attaching the on-ear headphones to the headset band

If you want to use the on-ear headphones, you can attach them to the headset band.



1. Remove the side cushions, screws, rubber pad, and cable guides from the headset band. For details, see [Detaching the cable guides from the headset band](#) on page 29.

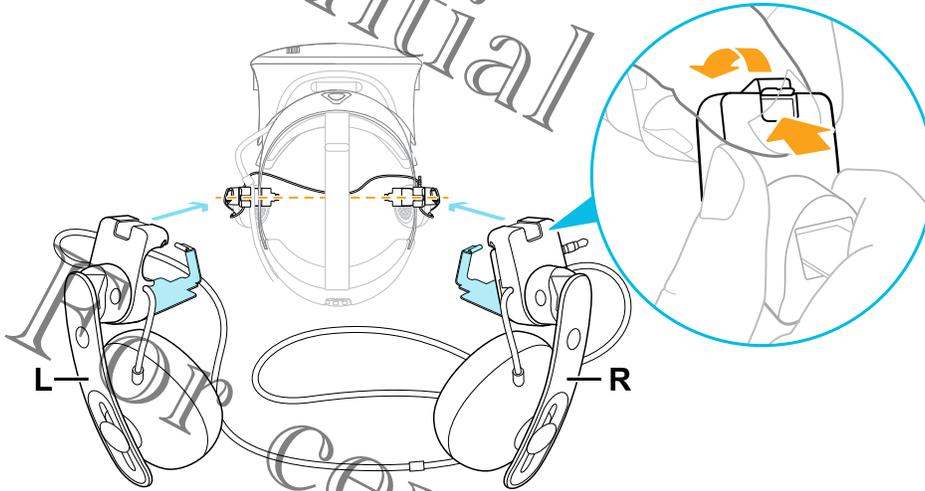
Use a cross-shaped screwdriver (PH00) to detach the screws. Make sure to keep these parts in a safe place.



Confidential

1. Audio cable guide
2. Rubber pad
3. Screws
4. Side cushions
5. Headset cable guide
6. Cable stopper

2. Before attaching the headphones to the headset band, flip open the metal clasp on each headphone.



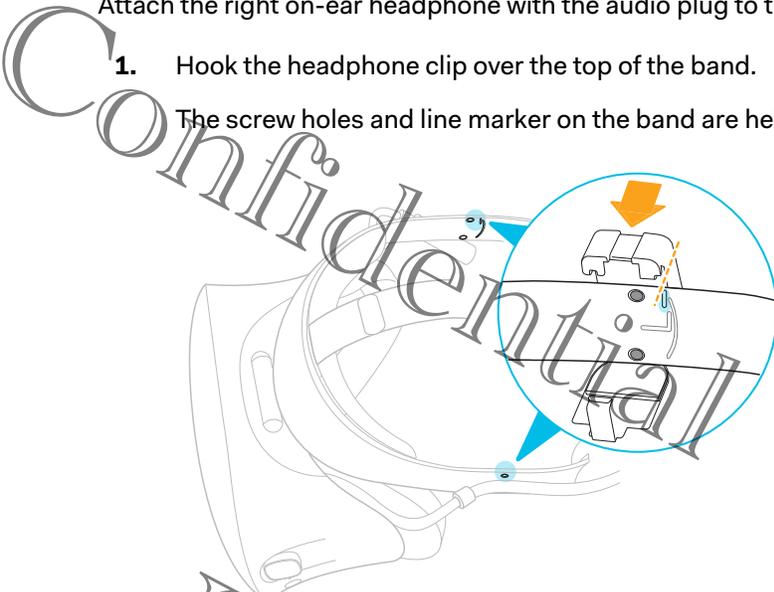
Confidential  
certification only  
Confidential

## Attaching the right on-ear headphone to the headset band

Attach the right on-ear headphone with the audio plug to the right side of the headset band.

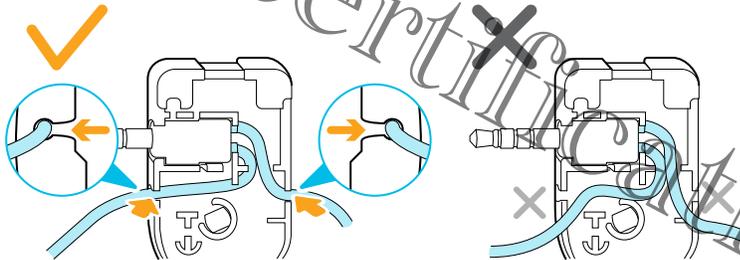
1. Hook the headphone clip over the top of the band.

The screw holes and line marker on the band are helpful guides for positioning the clip.

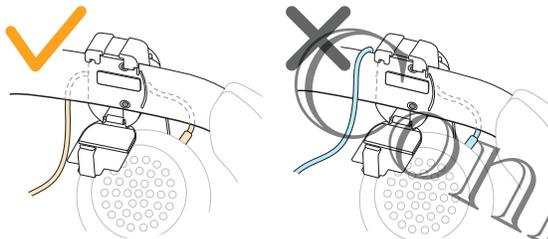


While the clasp is loose, you can reposition the headphone clip for a more comfortable fit. Just make sure that the other clip is similarly placed on its side of the band.

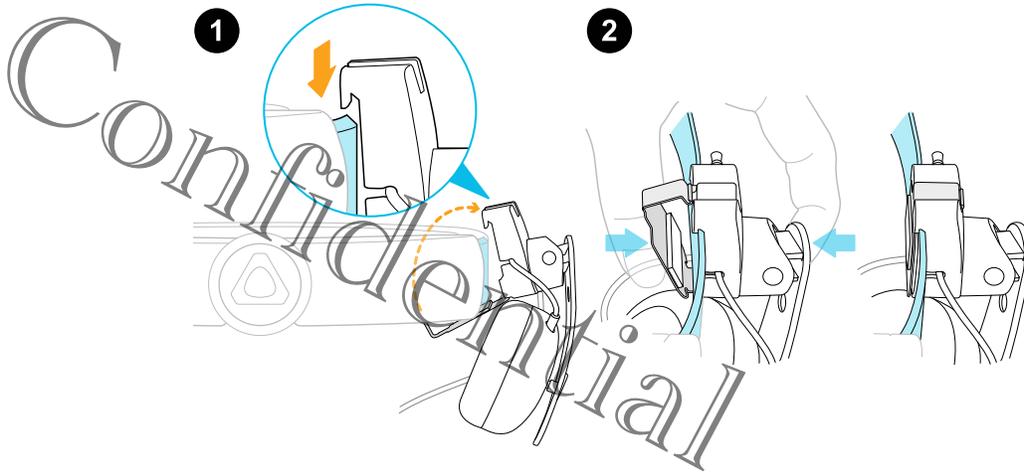
2. Make sure the audio cable is firmly pressed and not falling out of the groove.



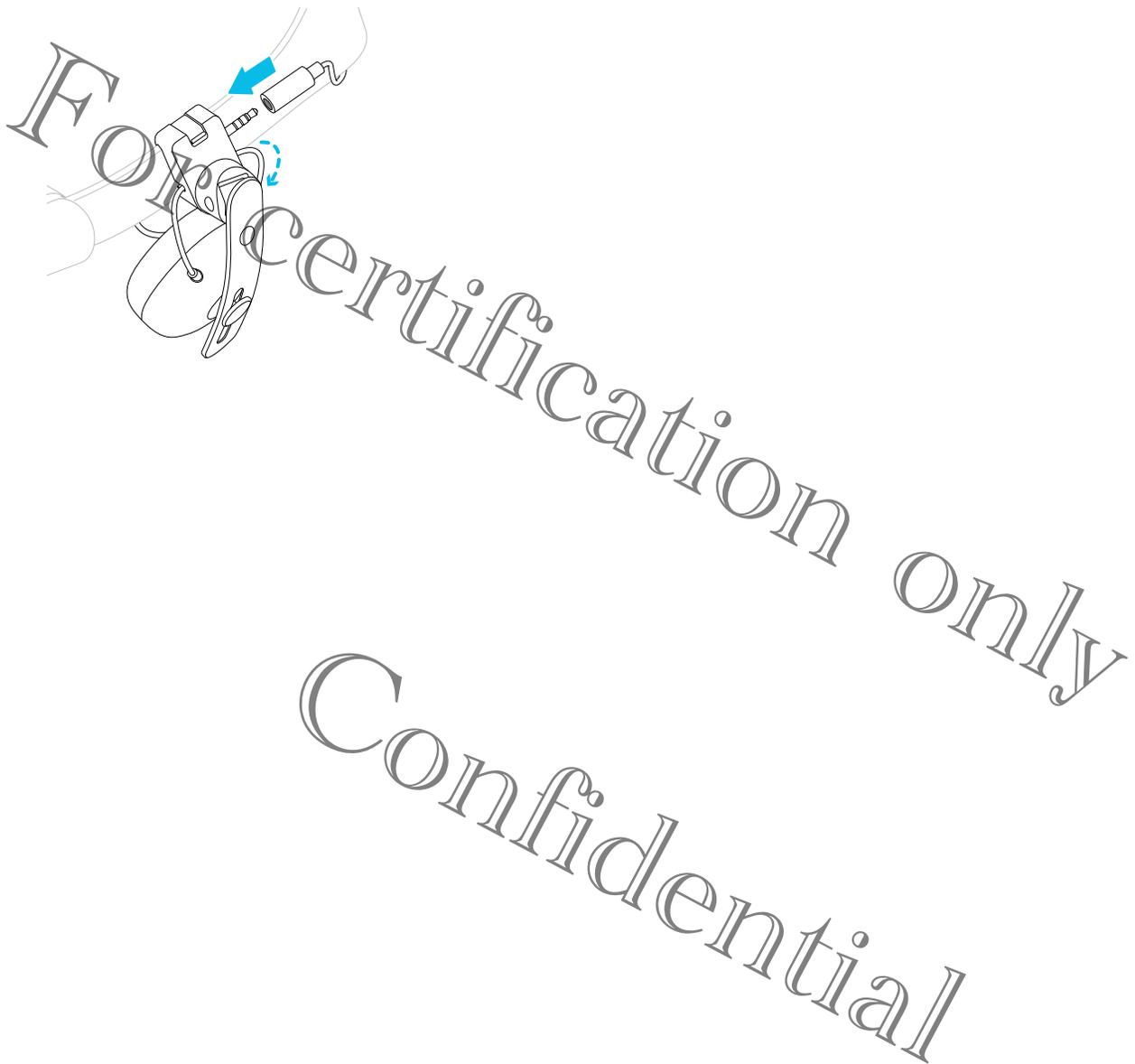
3. Make sure the audio cable runs under the band, and not over the top. Check that it isn't also wedged between the clip and the band.



4. Close the clasp around the band, and then snap into place.



5. Connect the audio cable connector to the headphone plug.



---

## Attaching the left on-ear headphone to the headset band

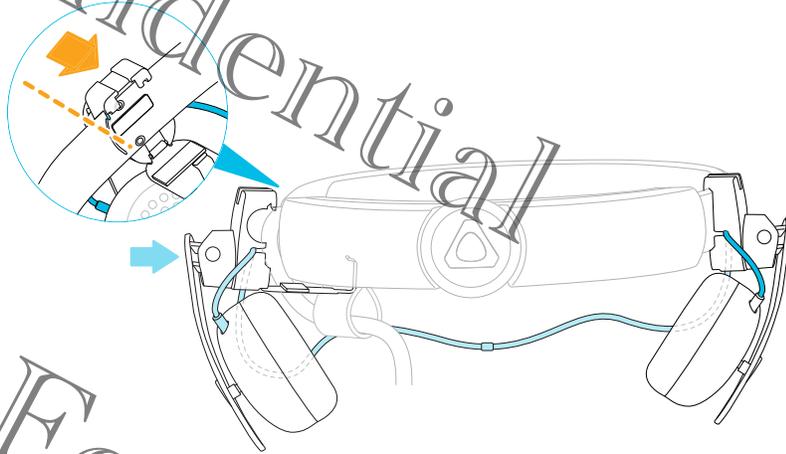
---

Attach the left on-ear headphone to the left side of the headset band.

**1.** Pin the headset cable along the cable guide on the left headphone.

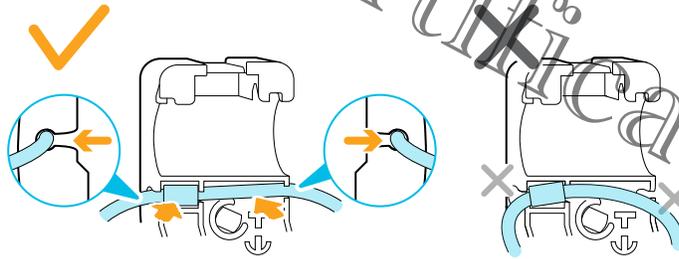
**2.** Hook the headphone clip over the top of the band.

The screw holes and line marker on the band are helpful guides for positioning the clip.



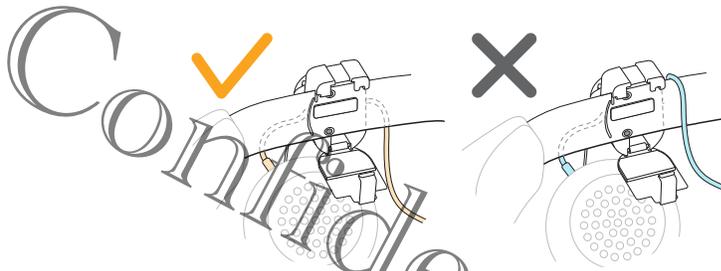
While the clasp is loose, you can reposition the headphone clip for a more comfortable fit. Make sure that the other clip is similarly placed on its side of the band.

**3.** Make sure the audio cable is firmly pressed in place and not falling out of the groove.

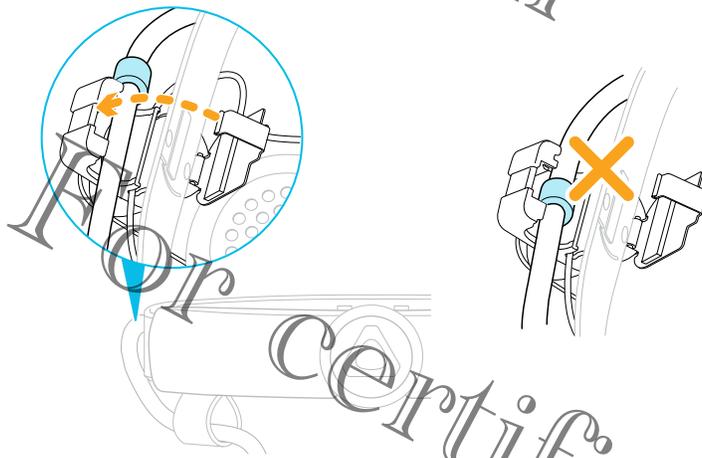


Confidential

4. Make sure the audio cable runs under the band, and not over the top. Check that it isn't also wedged between the clip and the band.



5. Close the clasp around the band and snap into place. The stopper on the headset cable shouldn't be caught in the clasp, and must be on the visor side to prevent damage to the visor while gaming.



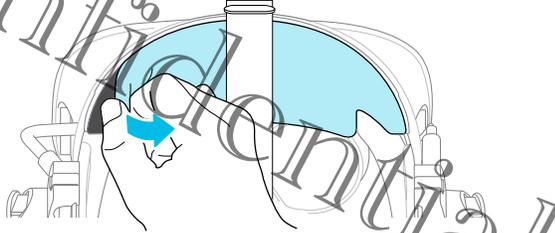
Confidential

only

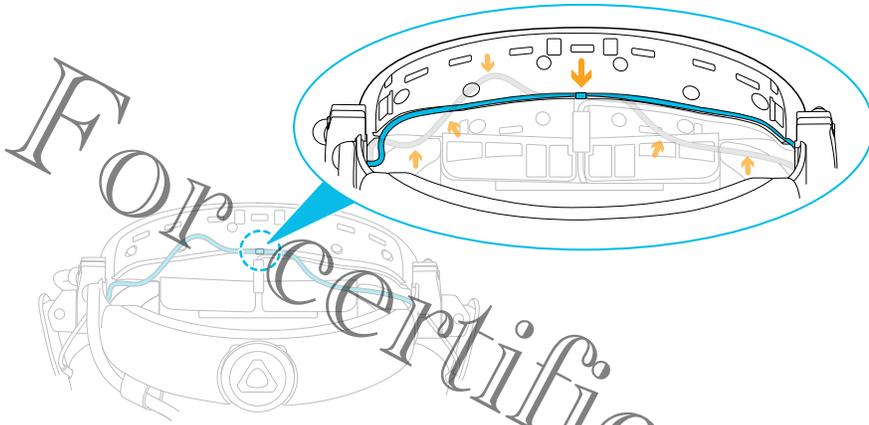
## Attaching the on-ear headphones audio cable to the headset band

After attaching the on-ear headphones, make sure to also properly attach its audio cable.

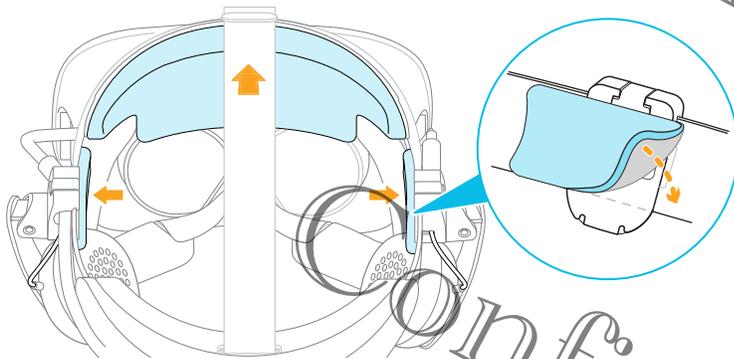
1. Remove the front pad from the headset band. For details, see [Removing the front and back pads](#) on page 18.



2. On the front section of the band, press the audio cable marker into the slot in the center. Then press the cable along the groove until flush with the band.



3. Reattach the front pad and side cushions to the headset band. Make sure that the side cushions cover the metal clasps on the band.



Confidential

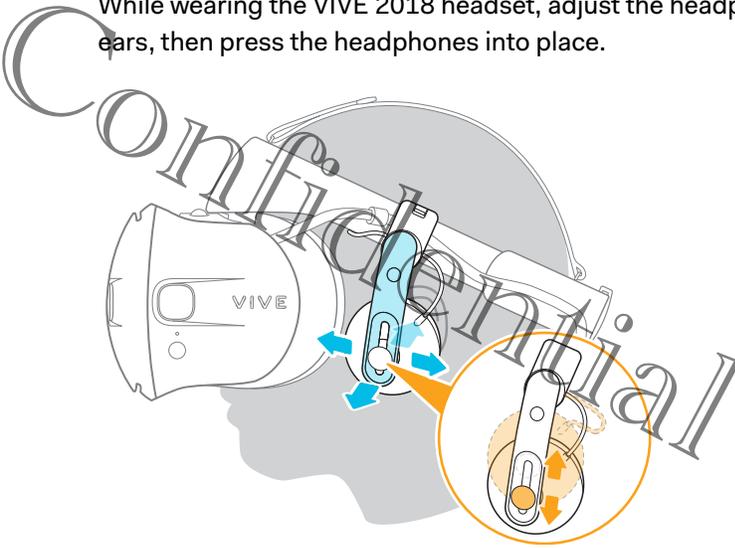
only

---

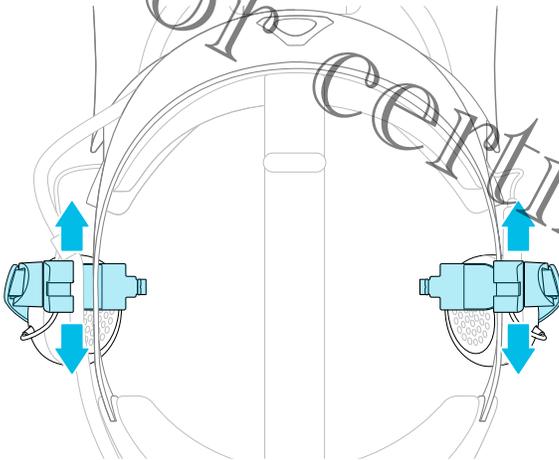
### Adjusting the fit of the on-ear headphones

---

While wearing the VIVE 2018 headset, adjust the headphones to a comfortable position over your ears, then press the headphones into place.



Is the fit too loose or tight? Especially if you feel pressure around your temples, adjust the position of the headphones for a more comfortable fit. To do so, flip open the metal clasp on each headphone and reposition the headphone clip on the headset band.

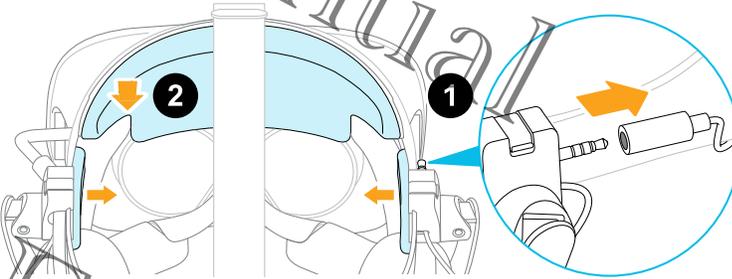


Confidential

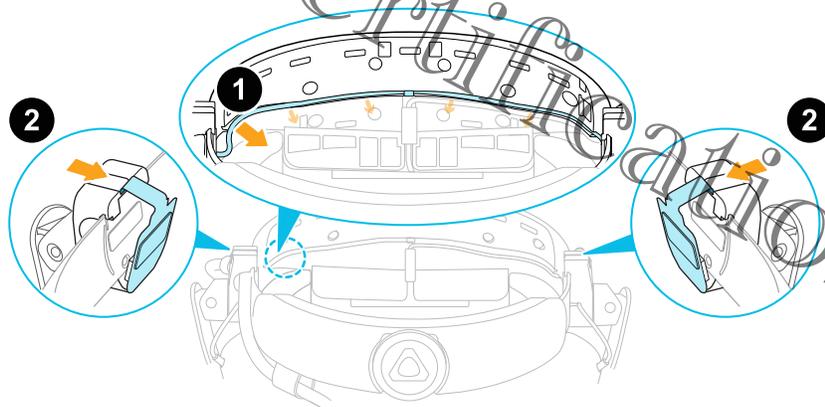
## Detaching the on-ear headphones from the headset band

If you want to use your own earphones, you must first detach the on-ear headphones from the headset band.

1. On the right side of the band, disconnect the audio plug from the audio cable connector.
2. Remove the side cushions and front pad from the headset band. For details, see [Removing the front and back pads](#) on page 18.



3. On the front section of the band, carefully pull out the cable of the on-ear headphones from the groove.
4. On the left and right sides of the band, flip open the metal clasp of each earphone to detach it.



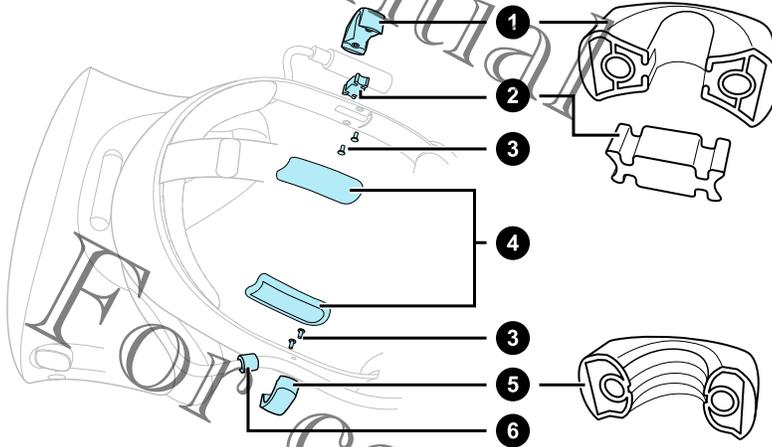
After detaching the on-ear headphones, you need to attach cable guides before plugging in your own earphones. For details, see [Attaching the cable guides to the headset band](#) on page 28.

## Attaching the cable guides to the headset band

If you want to use your own earphones, you first need to attach the audio cable guide and headset cable guide to the headset band.

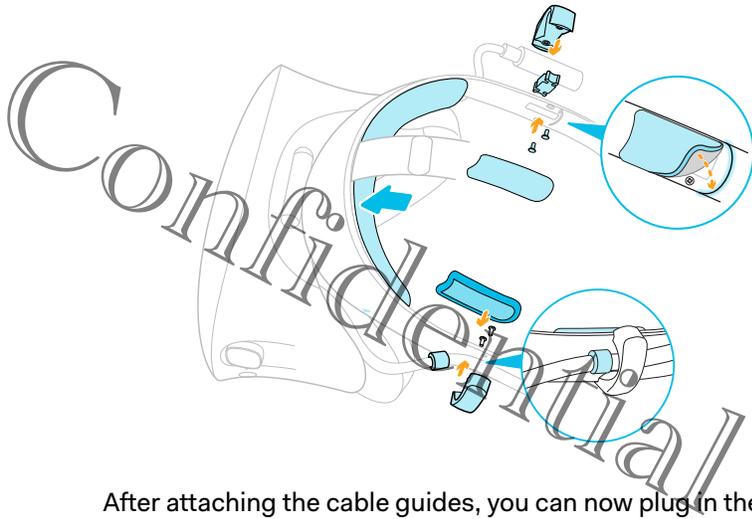
Before you attach the cable guides, make sure to remove the on-ear headphones from the headset band, including the front pad and side cushions. For details, see [Detaching the on-ear headphones from the headset band](#) on page 27.

Use a cross-shaped screwdriver (PH00) to attach the screws.



1. Audio cable guide
2. Rubber pad
3. Screws
4. Side cushions
5. Headset cable guide
6. Cable stopper

1. On the right side of the band, place the audio connector between the rubber pad and audio cable guide. Align the holes on the band, rubber pad, and audio cable guide, and then screw in place.
2. On the left side of the band, align the headset cable guide holes with the holes on the band, then screw in place. Make sure that the headset cable passes through the headset cable guide. The stopper on the headset cable must also be placed on the visor side of the cable guide.
3. Reattach the front pad and side cushions to the headset band. Make sure that each side cushion is aligned with the curvature on the band.



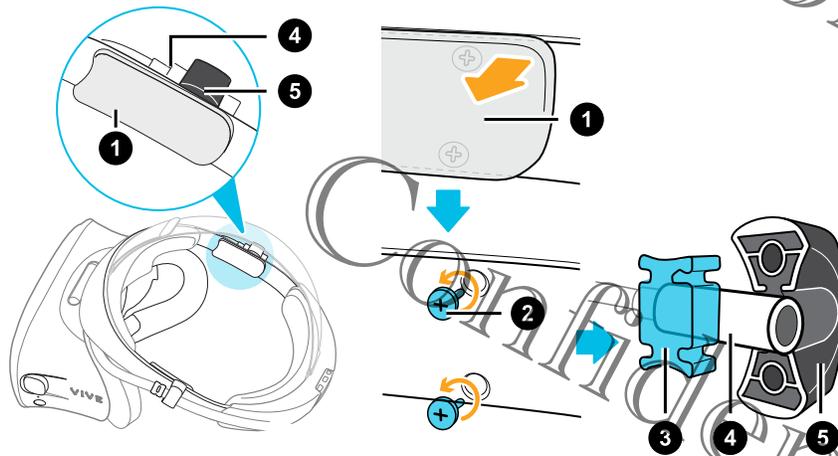
After attaching the cable guides, you can now plug in the earphones. For details, see [Plugging in the earphones](#) on page 18.

## Detaching the cable guides from the headset band

If you want to reattach the on-ear headphones, you first need to detach the audio cable guide and headset cable guide from the headset band.

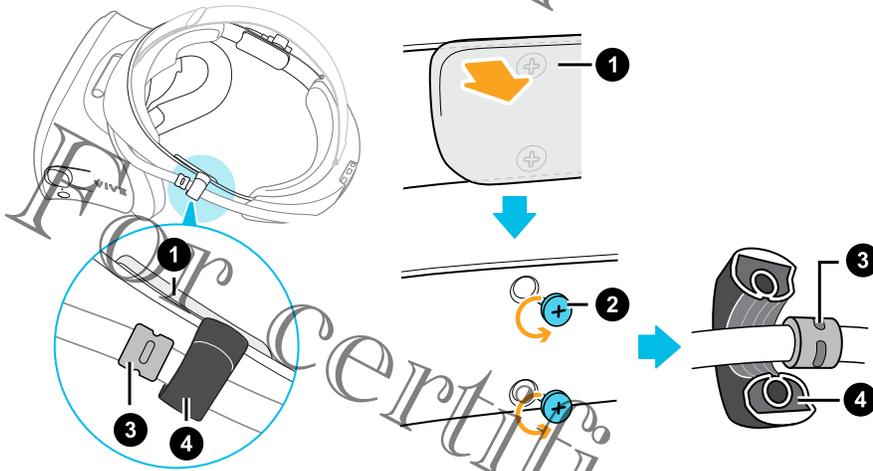
Make sure to keep these parts in a safe place.

- To remove the audio cable guide from the right side of the band, do the following:
  - a) Remove the side cushion.
  - b) Remove the screws using a cross-shaped screwdriver (PH00).
  - c) Remove the rubber pad that holds the audio cable connector against the audio cable guide.



1. Side cushion
2. Screws
3. Rubber pad
4. Audio connector
5. Audio cable guide

- To remove the headset cable guide from the left side of the band, do the following:
  - a) Remove the side cushion.
  - b) Remove the screws using a cross-shaped screwdriver (PH00).
  - c) Detach the headset cable guide.

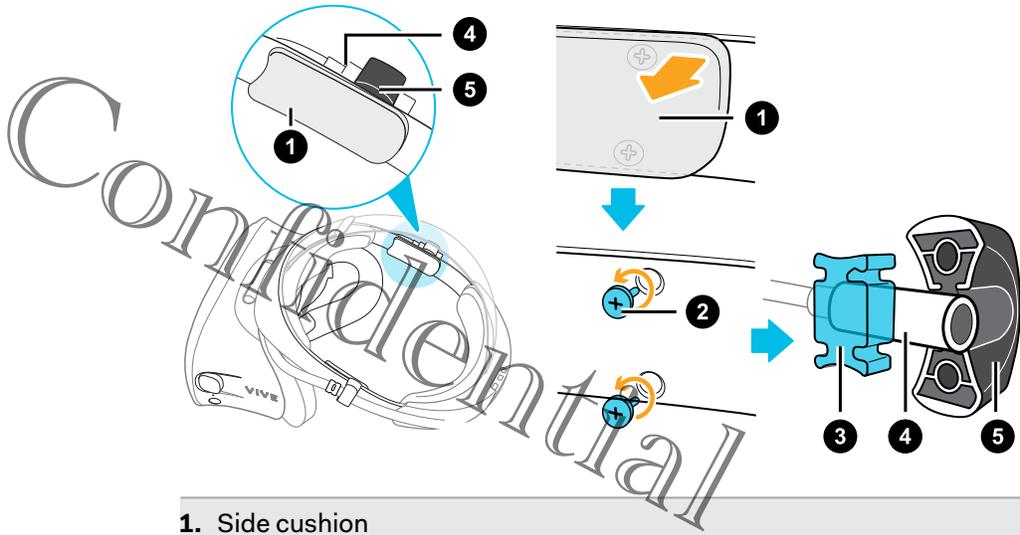


1. Side cushion
2. Screws
3. Cable stopper
4. Headset cable guide

### Detaching the audio cable guide

You can remove the audio cable guide from the right side of the band.

1. Remove the side cushion.
2. Remove the screws using a cross-shaped screwdriver (PH00).
3. Remove the rubber pad that holds the audio cable connector against the audio cable guide.

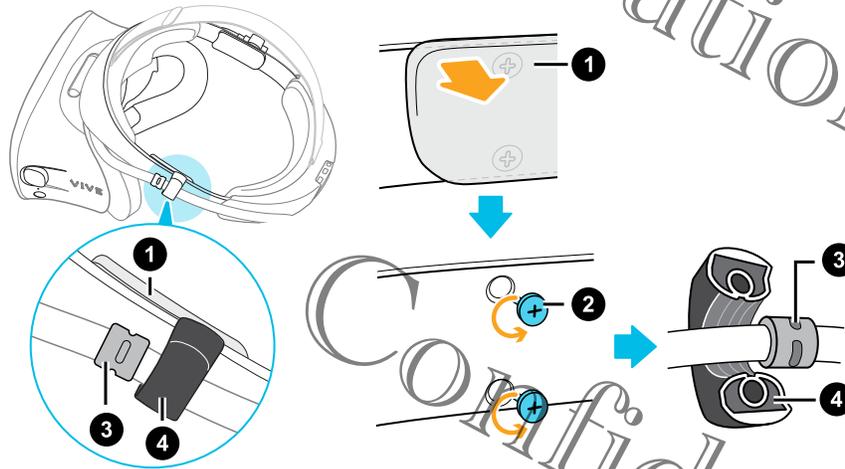


1. Side cushion
2. Screws
3. Rubber pad
4. Audio connector
5. Audio cable guide

### Detaching the headset cable guide

You can remove the headset cable guide from the left side of the band

1. Remove the side cushion.
2. Remove the screws using a cross-shaped screwdriver (PH00).
3. Detach the headset cable guide.



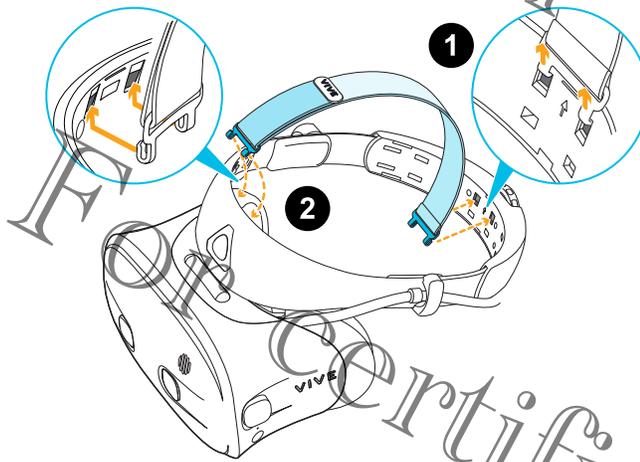
1. Side cushion
2. Screws
3. Cable stopper
4. Headset cable guide

## Attaching the top strap to the headset band

For added comfort, attach the top strap before wearing the headset. You can adjust the top strap by using the velcro strip.

You'll need to first remove the front and back pads on the headset. For details, see [Removing the front and back pads](#) on page 18.

1. Starting from the rear of the headset band, align the hooks of the top strap (side without the clasp) to its corresponding slots. Gently pull up the strap to hook into place.
2. Align and insert the hooks on the other end of the top strap with the inner slots of the headset band, and then pull up on the strap to hook into place.



3. Reattach the front and back pads to the headset. For details, see [Reattaching the front and back pads to the headset](#) on page 17.

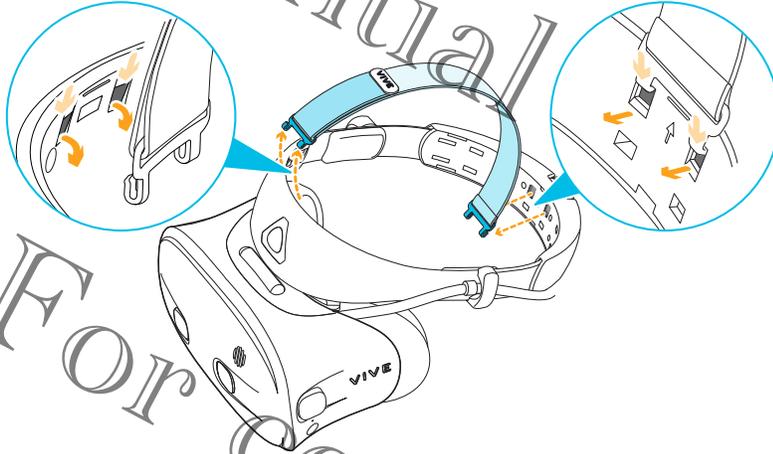
Confidential

## Detaching the top strap from the headset band

If you want to, you can detach the top strap from the headset band.

You'll need to first remove the front and back pads on the headset. For details, see [Removing the front and back pads](#) on page 18.

1. Starting from the rear of the headset band, pull down the strap to unhook it.
2. On the other end of the strap, pull down and out the strap to unhook it.



3. Reattach the front and back pads to the headset. For details, see [Reattaching the front and back pads to the headset](#) on page 17.

## Updating the headset firmware

1. From your computer, open the SteamVR app.
2. If you see the  icon, mouse over it to check if the firmware is out of date.
3. Click **Update headset firmware**. The firmware update will start automatically.

**!** Do not unplug any cables from the headset, link box, or your computer any time before the firmware update is complete. Doing so could result in a firmware error.

4. When the update is complete, click **Done**.

## What does the status light on the headset mean?

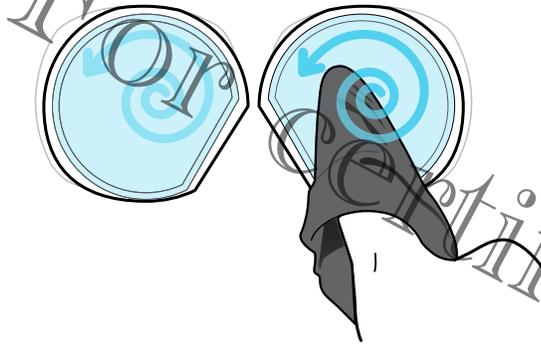
The status light turns:

- Green when the headset is in normal mode
- Dim green when the headset is on standby
- Red when the headset is in sleep mode

## Cleaning the headset lenses

1. Use the cleaning cloth provided in the box to wipe the lenses.
2. Moisten the cleaning cloth with alcohol or lens cleaner.
3. Wipe in a circular motion from the center to the outer edges of the lenses.

While cleaning the lenses, do not scratch the lenses nor disassemble other parts of the headset.

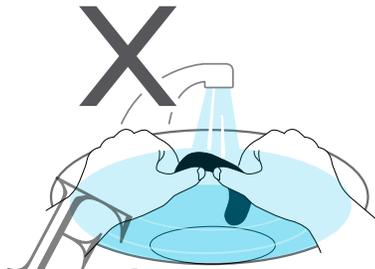


Confidential

only

## Cleaning the face cushions

1. Before cleaning the face cushions, remove it first from the VIVE 2018 headset.
2. When cleaning the face cushions, remember to:
  - Dampen a clean smooth cloth with cold water and gently wipe the area you want to clean.
  - Air dry at room temperature. Don't tumble dry, iron, or expose it to direct sunlight.
  - Don't scrub, wring, or bleach.
  - Don't dip or soak in water.



Confidential

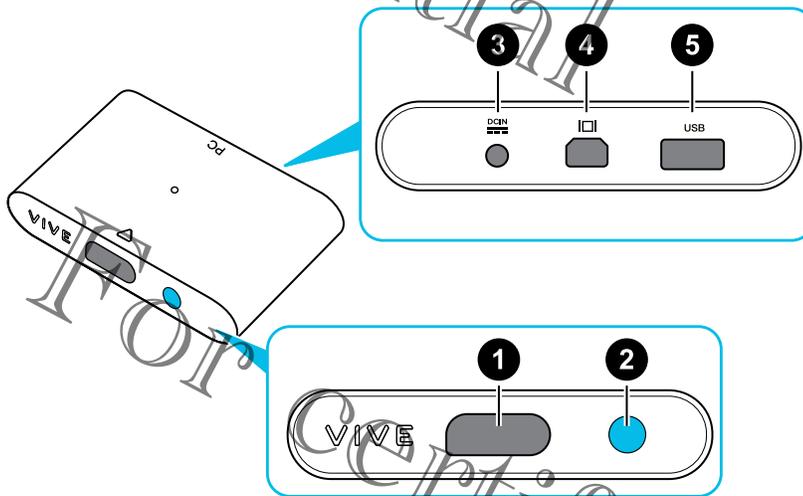
For certification only

Confidential

# Link box

## About the link box

Use the link box to connect the headset to your computer.



1. Headset cable port
2. Power button
3. Power port
4. DisplayPort port
5. USB 3.0 port

## Connecting the headset to your computer

1. Connect the DisplayPort cable, USB 3.0 cable, and power adapter cable on their corresponding ports on the link box.
2. Plug the power adapter into an electrical outlet.
3. Connect the other end of the USB 3.0 cable on a USB 3.0 port on your computer.
4. Connect the other end of the DisplayPort cable to the DisplayPort port on the graphics card of your computer where the monitor is also connected. Do not connect the DisplayPort cable to ports on the motherboard.



# Controllers

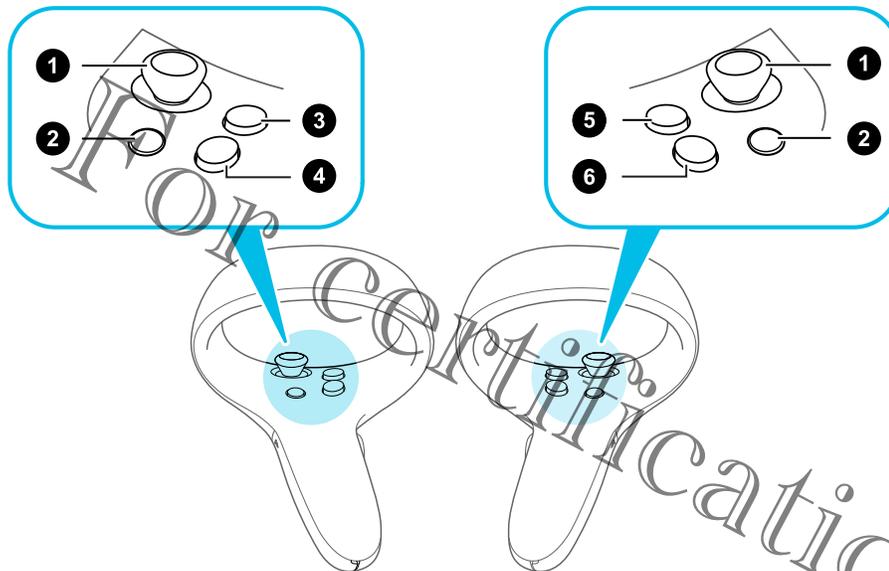
## About the VIVE 2018 controllers

Use the controllers to interact with objects in the VR world.



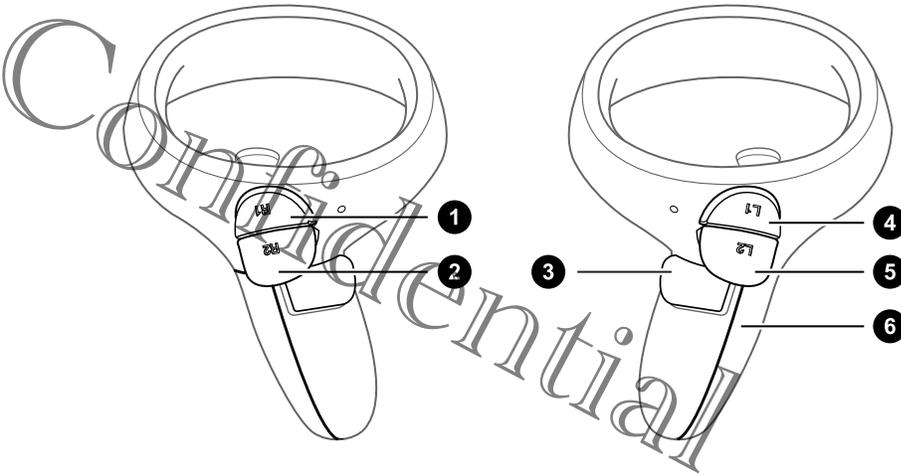
The button labels on the controllers that you received with your developer kit may vary. Please check the hardware for the matching label.

### Front view



1. Joystick
2. System/Menu button
3. B/Y button
4. A/X button
5. B button
6. A button

Confidential

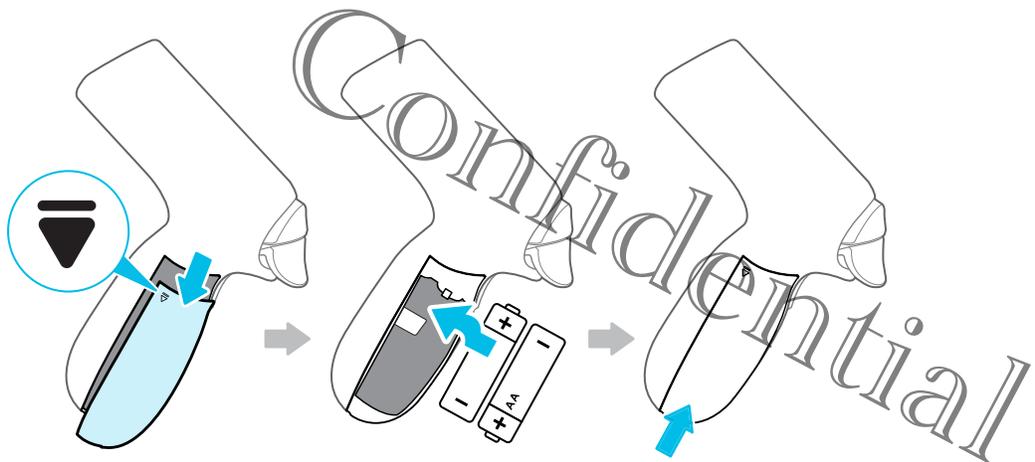
**Back view**

1. Right bumper
2. Right trigger
3. Grip button
4. Left bumper
5. Left trigger
6. Battery cover

## Inserting the batteries into the controller

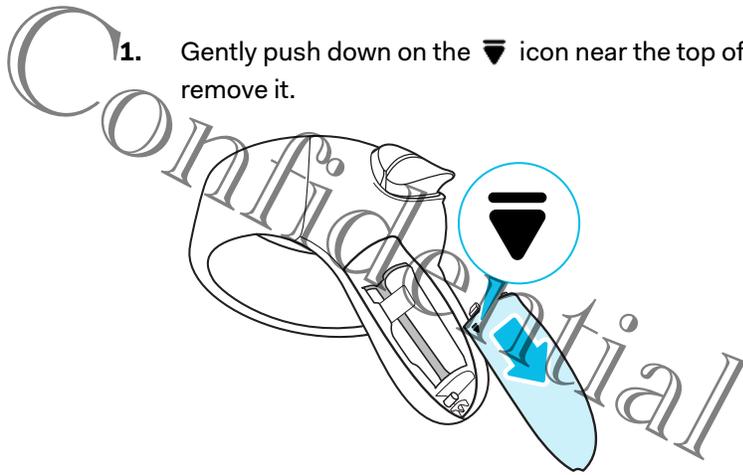
Make sure that the included batteries have been inserted before turning on the controllers.

1. Gently push down on the ▼ icon near the top of the battery cover, then slide and lift to remove it.
2. Insert 2 alkaline AA batteries into the compartment. Make sure that the positive and negative ends are facing the correct direction, and that the batteries are put over the thin film in the battery compartment.
3. Replace the battery cover.

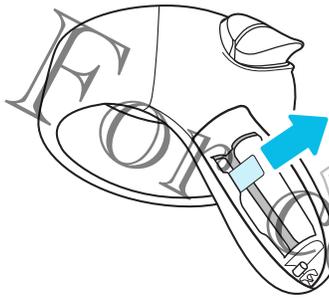


## Removing the batteries from the controller

1. Gently push down on the ▼ icon near the top of the battery cover, then slide and lift to remove it.



2. Pull up the thin film in the battery compartment to remove the batteries.



3. Replace the battery cover.

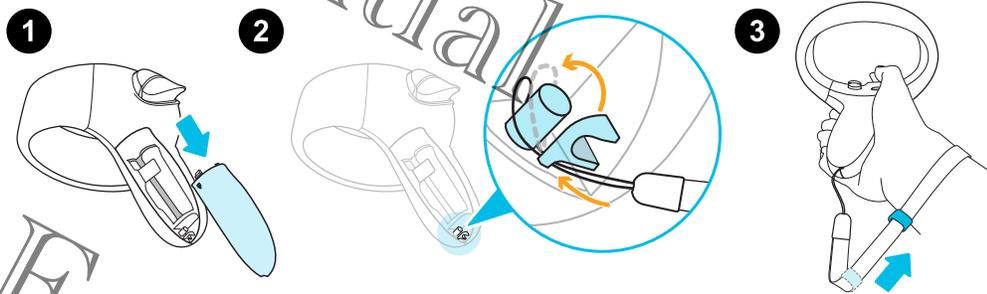
Confidential

only

## Attaching the lanyards to the controllers

Using the lanyards may help prevent the controllers from accidentally being dropped; however, please do not fling or violently throw the controller as the lanyard may break.

1. Gently push down on the top of the battery cover, then slide and lift to remove it.
2. Insert the lanyard loop on the corresponding hole at the bottom of the controller. Make sure that the loop is hooked around the post.
3. After replacing the battery cover, slide the lanyard over your wrist, and then slide the lock to tighten the lanyard comfortably around your wrist.



## Turning the controllers on or off

- To turn the controller on, briefly press the System/Menu button.
- To turn the controller off, press and hold the System/Menu button for around 3 seconds.

## Pairing the controllers with the headset

1. From your computer's Windows system tray, click **VIVE 2018 Settings**.
2. Select **Control Unit and Pair Controller in Left controller or Right controller**.
3. Turn on one of the controllers by briefly pressing the System/Menu button.
4. To initiate the pairing process, press the System/Menu and B/Y buttons at the same time. When the pairing is successful, the blinking light turns solid.
5. Pair the other controller by repeating steps 2 to 4.

# Trademarks and copyrights

©2019 HTC Corporation. All Rights Reserved.

VIVE, the VIVE logo, HTC, the HTC logo, and all other HTC product and service names are trademarks and/or registered trademarks of HTC Corporation and its affiliates in the U.S. and other countries.

Steam, the Steam logo and SteamVR are trademarks and/or registered trademarks of Valve Corporation in the U.S. and/or other countries.

All other trademarks and service marks mentioned herein, including company names, product names, service names and logos, are the property of their respective owners and their use herein does not indicate an affiliation with, association with, or endorsement of or by HTC Corporation. Not all marks listed necessarily appear in this User Guide.

Screen images contained herein are simulated. HTC shall not be liable for technical or editorial errors or omissions contained herein, nor for incidental or consequential damages resulting from furnishing this material. The information is provided "as is" without warranty of any kind and is subject to change without notice. HTC also reserves the right to revise the content of this document at any time without prior notice.

No part of this document may be reproduced or transmitted in any form or by any means, electronic or mechanical, including photocopying, recording or storing in a retrieval system, or translated into any language in any form without prior written permission of HTC.

Confidential  
For Certification Only  
Confidential

# Index

---

## C

---

### Controller

- inserting the batteries 39

### Controllers

- about 38
- pairing with the headset 41
- turning on or off 41

---

## H

---

### Headset

- about 6
- adjusting the IPD 11
- connecting a USB device 15
- putting on 8
- replacing the face cushion 13

---

## L

---

### Link box

- about 36
- connecting the headset 36

Confidential  
Top Secret Certification Only  
Confidential