

How to Connect the Vive Focus Vision to Vizard and SightLab VR Pro



Overview

The **Vive Focus Vision**, Vive's latest all-in-one VR headset, supports eye and hand tracking, face and body tracker integration, stereo color passthrough, 5K resolution, and a 120-degree field of view. You can connect it to **Vizard** and **SightLab VR Pro** either **wired** or **wirelessly** using the **Vive Streaming** or **Vive Business Streaming** application. Follow the steps below to get started.

Setup Steps

1. Prepare the Headset

- Install the battery in the headset.



- Ensure that both the **headset and controllers are fully charged**.
- **Power on the headset** by pressing and holding the **Power button** (located at the back) for **3 seconds**.



- Put on the headset and press and hold the **headset button** at the welcome screen.

- **Pair controllers** as prompted.



- **Perform a Boundary Setup** to ensure safe movement boundaries.

2. Connecting to Your PC

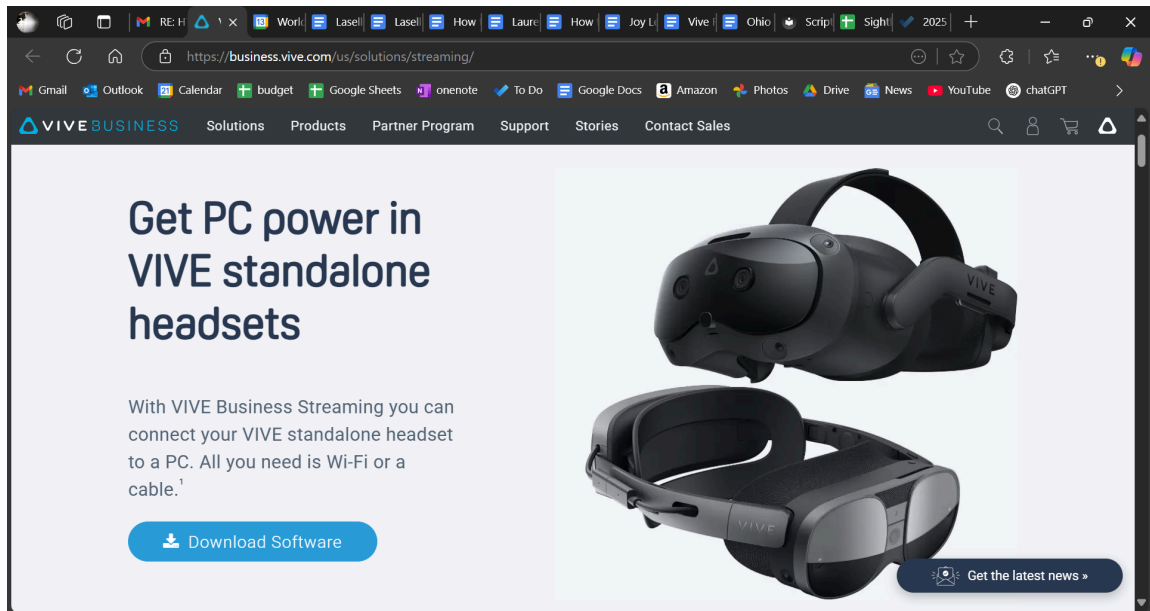
Option 1: Wireless Connection

- **Connect the Vive Focus Vision to the same wireless network** as your desktop.
- A stable and fast connection (Wi-Fi 6 or 6E recommended) is required for the best performance.

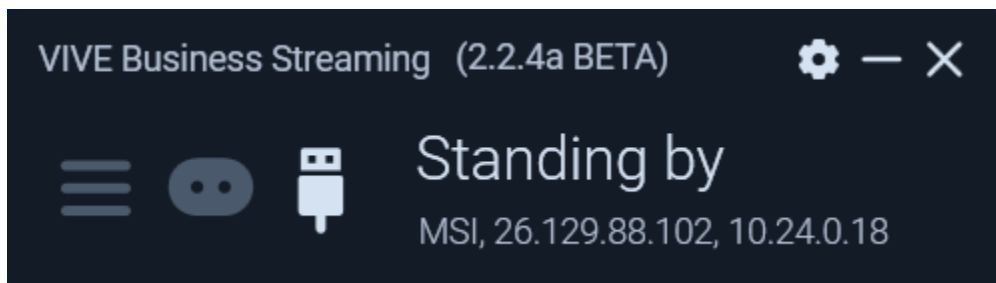
Option 2: Wired Connection (Recommended)

- Use a USB-C to USC 3.0 cable. Recommended cable from our testing has been this one from [Syntech](#)

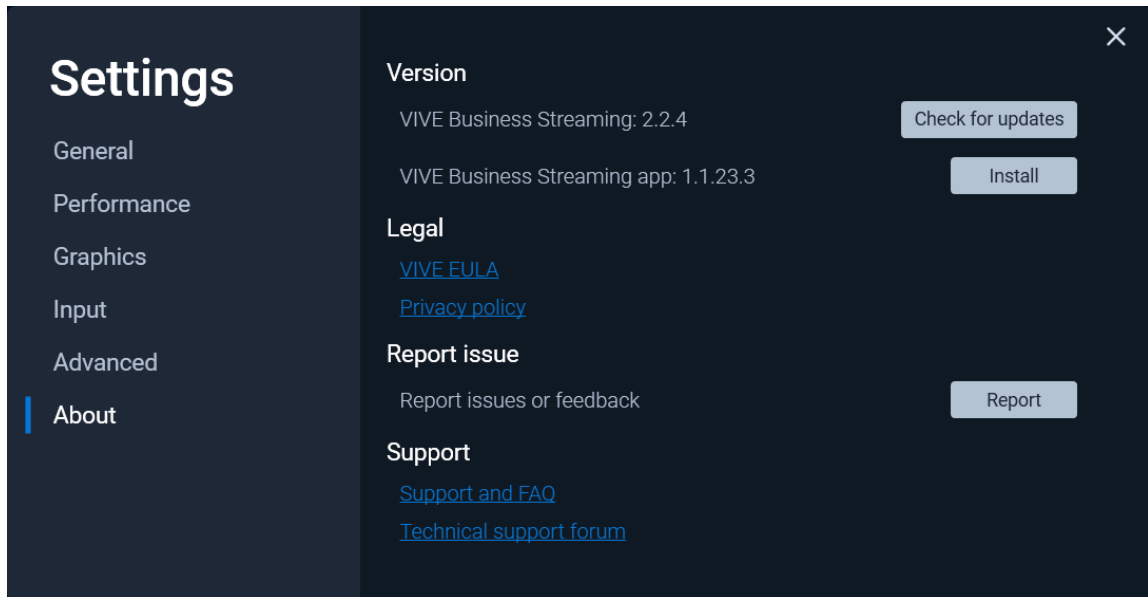
1. **Install Vive Business Streaming from this link**
<https://business.vive.com/us/solutions/streaming/>



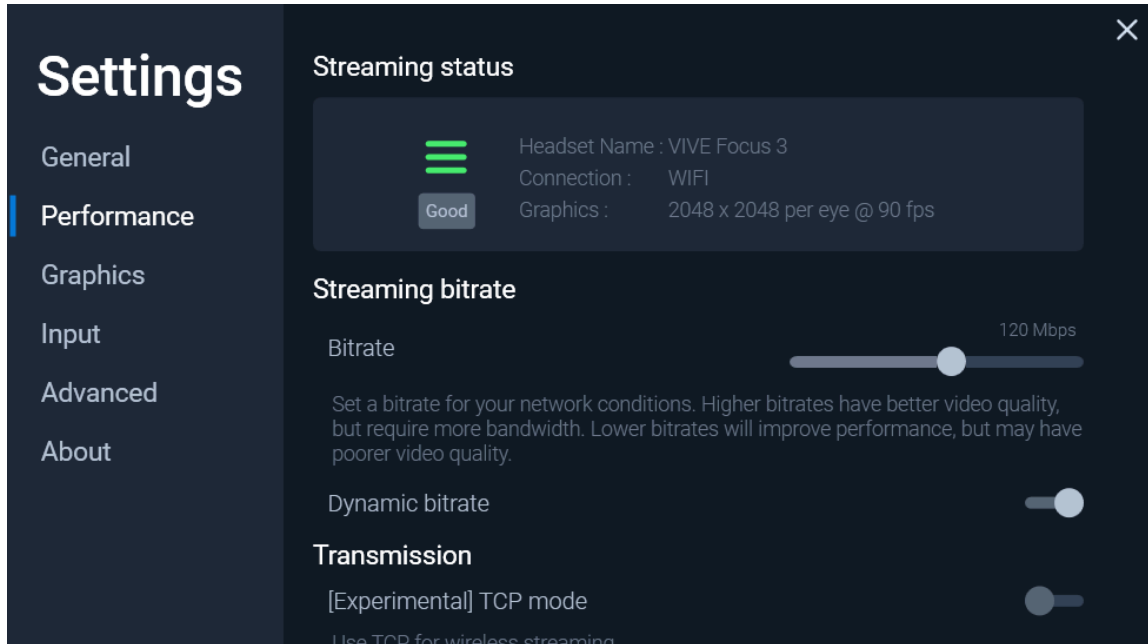
2. **Install the software** and launch it.
3. The Vive Business Streaming app will start automatically.



4. Under Settings - About - You can also install the Vive Business Streaming App on the VR headset (make sure that it connected)



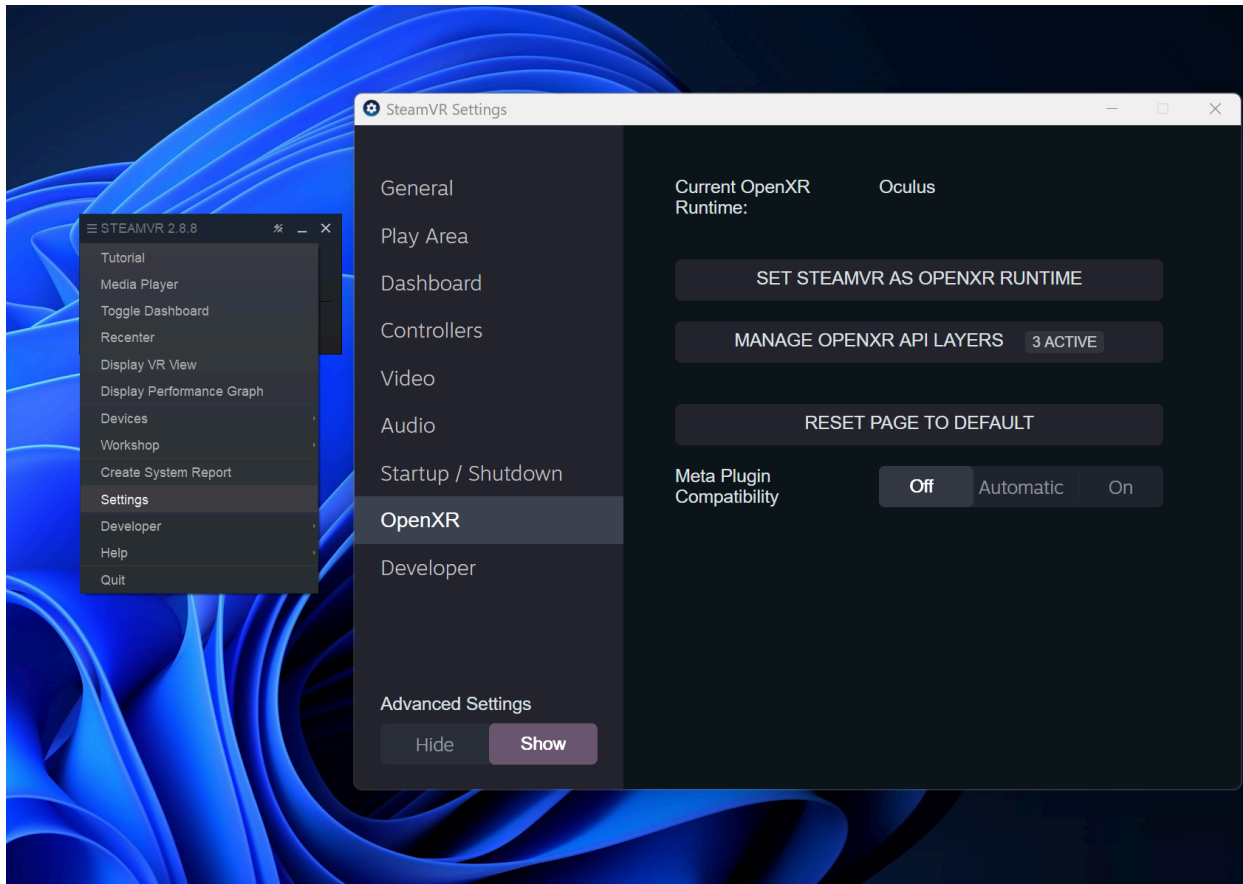
5. Adjust settings such as **bitrate and sharpening** as needed (if using a **wireless connection**, lower the bitrate for smoother performance).



3. Install and Configure SteamVR

1. **Install Steam** (if not already installed) from: [Steam Download](#)
2. **Install SteamVR** from: [SteamVR Download](#)

3. **Set SteamVR as the default OpenXR runtime:**
 - a. Open **SteamVR**
 - b. Click **Menu** → **Settings** → **OpenXR** (Note: you may need to also unblock Vive Streaming if it doesn't work)



4. Register OpenXR in VBS

Register OpenXR in Vive Business Streaming as well so you can access Eye and Face Tracking from the headset over the streaming connection.

5. Running in SightLab VR Pro or Vizard

- **In SightLab VR Pro:** Select "**Vive Focus Vision**" from the headset dropdown menu. You can also access all the additional features and built-in templates for the OpenXR capabilities, see [this page](#) for more details. This includes easy templates for passthrough, face tracking, hand tracking, as well as the additional eye tracking algorithms and data collection with SightLab.
- **In Vizard:** Connect as an "**OpenXR**" headset.

Note: If pupil diameter data stops collecting, restart the Vive Streaming software

Eye Tracking Calibration

To calibrate the eye tracking:

1. Press the **right system button** on the controller.
 2. Click **Back to Lobby**
 3. Navigate to **Inputs** → **Eye Tracking** → **Calibrate**.
 4. After calibration, press the top right button to open your library and click on **Vive Streaming** to go back.
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Additional SightLab Templates and Features

- Eye Tracking Algorithms, data collection and visualizations
- Face Tracking expression data collection and avatar mappings
- Hand Tracking and physics interactions
- Mixed Reality/Passthrough drag and drop and scene creation
- Full Body Vive Tracker Samples

Optional Add-Ons

- Face Tracking Add-On
- Vive Ultimate Trackers

Reconnecting the Headset After Initial Setup

- **Open Vive Business Streaming** (if not already running).
 - **Turn on the headset.** If plugged in, it should prompt you to select "**Vive Streaming**".
 - If you don't see this prompt, disconnect and reconnect the USB cable, then select "**Vive Streaming**".
 - **Controllers will turn on automatically** when picked up.
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Adjusting IPD (Interpupillary Distance)

To **disable Auto IPD**:

1. Go to **Settings** → **General** → **IPD**.
 2. Toggle **Auto IPD off** to manually adjust the distance.
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Additional Business Plus Features

- To unlock additional features such as faster eye tracking data collection, remote device monitoring and more, see this link for the 3 tiers of business plus <https://business.vive.com/us/solutions/business-plus/pricing/>
- The standard VB+ tier is free. You can create batch configurations with the desired settings and apply them through the VB+ site or via the VB+ console.
 - VB+ Tier Breakdown: <https://business.vive.com/us/solutions/business-plus/pricing/>
 - Enrolling Headsets: https://business.vive.com/us/support/business-plus/category_howto/enrolling-devices.html
 - Batch Configuration features: https://business.vive.com/us/support/business-plus/category_howto/batch-configuration-features.html
 - Complete VB+ Guide: https://dl4.htc.com/Web_materials/Manual/business-plus/VIVE_Business-plus_User_Guide.pdf
- To apply a batch configuration
 - Login to your business plus account <https://businessplus.vive.com/>
 - Create an organization or log in to an existing one
 - Click on headset icon on the left and then “Batch Configuration”
 - Click Create and select the device type you're creating the batch configuration package for.
 - On the Information tab, enter a name and note for the batch configuration package.
 - Go through each tab to customize your batch configuration package.
 - Click Assign Base Configuration or Assign Patch
 - Click Actions- Edit to edit an existing configuration (such as adding the ability to see the passthrough camera when mirroring the headset).

Changing Sleep Time

In the VB+ Batch Configuration, you can adjust the sleep time in the System Preferences section.

Sleep mode

Assign duration for headset to go to sleep

3 minutes

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Viewing the Passthrough View

In the same System Preferences section, you can also enable passthrough casting/recording.

☒ Allow the passthrough image to be recorded or cast
Select to be able to record and cast the image seen when passthrough is activated.

Troubleshooting Tips

Common Issues and Solutions

Issue	Solution
SteamVR not detecting headset	Restart Vive Hub , reconnect USB, and restart SteamVR.
Wireless connection lagging	Reduce bitrate in Vive Hub settings . Use Wi-Fi 6/6E .
Eye tracking not working	Make sure SteamVR is set as active OpenXR. Reconnect headset. Make sure that SteamVR is running and is connected when viewing in the headset and restart the application.
Pupil diameter stops collecting	Close and re-open Vive Streaming software .

For further assistance, contact us at sales@worldviz.com.

