

Video Exam Glasses

User Manual



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Introduction

The Visionflex Video Exam Glasses are designed to provide high-definition video capture with an integrated microphone for audio support during video calls. These glasses can be connected via USB for tethered use or with an optional wireless TX/RX kit for untethered operation. This manual will guide you through removing the camera adapter from the supplied safety glasses and mounting it onto your own glasses.

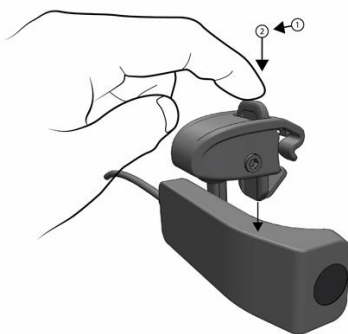
Features

- **High-Definition Camera:** 1024x768 pixels for clear and detailed video capture.
- **Ball Joint Adapter:** Allows for easy camera orientation.
- **Mounting Mechanism:** Supports various frame sizes for personalized use.
- **USB Connectivity:** Use with USB-A or USB-C via the supplied extension lead.
- **Wireless Capability:** Optional wireless TX/RX kit available for untethered operation.
- **Integrated Microphone:** Supports audio during video calls.

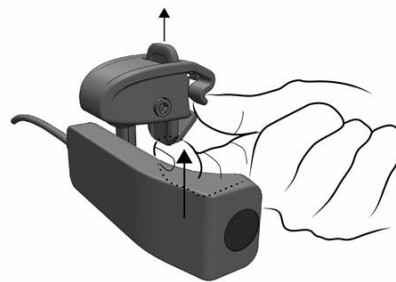
Removing and Remounting the Adapter

Step 1: Removing the Adapter from the Glasses

1. **Detach the Adapter:** Identify the black adapter on the right arm of the glasses. While supporting the arm of the glasses with the left hand to avoid excess force being applied to the hinge, push the ratchet slider mechanism toward the rear of the adaptor with the forefinger of the right hand and push it down at the same time. This will open up the ratchet slider and allow the adaptor to be removed from the arm of the frame.
2. Carefully pull the adapter away from the frame and detach the cable from the arm.



Opening clamp to remove camera from frame



Closing clamp to secure camera on frame

Step 2: Mounting the Adapter onto Your Glasses

1. **Attach the Adapter:** Open up the mechanism on the camera adaptor by pushing the ratchet slider toward the rear of the adaptor with the forefinger while pushing it down at the same time. Take the adaptor in the right hand while supporting the frame arm with the left. While applying the adaptor to the right-side arm, ensure that excess force is not being applied to the hinge to avoid any damage. Take the adaptor, and place the two support mounting hooks over the top of the arm. Depending on the thickness of the arm, some force may be required to expand the mounting hooks so they fit over the arm. Slide the adaptor as close as possible to the hinge. Once the adaptor is hanging on the arm in the correct position, press the bottom of the ratchet slider upward until the adaptor is locked onto the arm.
2. **Adjust the camera orientation:** Once the adaptor has been mounted, the ball joint will allow the camera to be adjusted to your preferred orientation. Hold the adaptor with the left hand, while taking the camera in the right hand, between thumb and forefinger and move it to the preferred orientation. Due to friction between the adaptor housing and the ball joint, some force may be required to move the camera so hold the adaptor firmly with the left hand.
3. **Adjusting Ball Joint Force:** The ball joint friction can be adjusted by tightening or loosening the tension using the 1mm 'Allen Key' clamping screw.
4. **Test the Fit:** Connect the glasses to your PC and view the video feed being shown on the screen. You can use the Windows 'Camera' application to view the video feed. Adjust the camera angle using the ball joint to ensure it captures the desired field of view.

Connecting the Exam Glasses

USB Mode

1. **Using the Supplied USB Extension Cable:** Connect the extension cable to the glasses' USB port. Plug the other end into your device's USB-A or USB-C socket using the supplied adaptor.
2. **Enable Video and Audio:** Once connected, the camera and microphone will be available for use in video applications and will appear as "USB Camera".

Wireless Mode (Optional)

1. **Connecting the TX/RX Kit:** Follow the instructions provided with the optional wireless TX/RX kit to use the camera with your device wirelessly. This facilitates untethered use of the camera.
2. **Untethered Operation:** Once connected, you can use the glasses wirelessly, giving you more freedom of movement during examinations. The receiver will appear in your preferred video call platform as 'VF-WiFi-Camera'.

Usage Tips

- **Camera Orientation:** Use the ball joint to adjust the camera for optimal video capture.
- **Microphone Positioning:** Ensure the microphone is not obstructed for clear audio during calls.
- **Maintenance:** Clean the lenses and camera module regularly to maintain image quality.

Troubleshooting

- **Camera Not Detected:** Check the USB connection or wireless receiver connection.
- **Camera Software Drivers:** No drivers are required as the camera is UVC compliant.
- **Poor Image Quality:** Clean the camera lens and ensure proper lighting.
- **Audio Issues:** Verify the microphone is selected as the input device in your video call settings.

Conclusion

The Visionflex Video Exam Glasses offer a versatile and high-quality solution for remote examinations. Whether used in USB or wireless mode, the glasses provide excellent video and audio support for healthcare professionals.

The Glasses Exam Camera can be used on Windows 10/11, MAC, iOS or Android devices. The Camera will not work on Apple iPhones as they do not support USB Video inputs. This may change.

For additional support or troubleshooting, please refer to the Visionflex support resources.

Specifications

Resolution	1280 x 720 Pixels @ 30fps
Interface	USB-C and USB-A with Adaptor
Focus Distance	Infinity, 88 degrees Viewing Angle without distortion
Working temperature	-40 to 75 Degrees Celsius
Cable Length	500mm integrated with USB-C, 2m USB-C extension cable