

User Manual

VRvision



Subject to technical modifications

WARNING

Before using the VRvision HMD please read carefully these safety instructions.

Read this handbook and use the VRvision device in strict accordance in order to prevent any damage to your eye, other injury, loss of visual functions, property damage or death.

Children under the age of fifteen may not use this product.

We strongly advise you to get familiar with the VRvision device and its capabilities before you use it for the first time.

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1 Safety Instructions

1.1 Prescribed Use

The product is designed to display video signals via a DVI port from a PC. The power is supplied via a USB port.

1.2 Health Concerns

➔ **WARNING:** Eye Disease, Eye Injury, and Glaucoma

If you have been diagnosed with or are susceptible to eye disease, eye injury, or glaucoma consult your doctor before use and do not use without your doctor's approval.

➔ **CAUTION:** Heart Disease, High Blood Pressure

If you have a history of heart disease or high blood pressure consult your doctor before use and do not use without his approval.

➔ **CAUTION:** Seizures

If you have a history of temporary spasm, unconsciousness, or epileptic seizures from light stimulation, consult your doctor before use and do not use without his approval.

If any of the following symptoms occur, if using VRvision, stop using immediately and rest:

- eye fatigue or irritation,
- headaches or dizziness,
- aches and pain in the neck or shoulders,
- double vision,
- nausea or motion sickness,
- inability to focus on the displays.

Misuse or overuse of this product may result in eye damage, or loss of visual functions.

1.3 General Safety Hints

- ➔ Avoid getting the cable entangled around your neck, body or arms. Use the belt pouch for the power unit and wear the cable close to your body.
- ➔ To ensure that the device does not fall off during use, always use the headband, and have it tightened with an adequate tension.

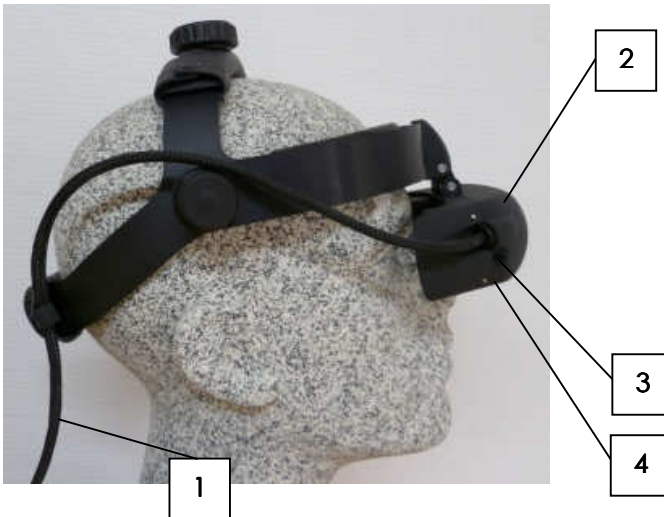
1.4 Warning for Electrical Products

- ➔ To avoid any risk of electrocution, do not bring any part of the VRvision in contact with water when the device is connected to an AC outlet (e.g. when plugged to PC).
- ➔ Avoid using and storing the VRvision at wet, humid, dusty and smoky surroundings and extreme temperatures.
- ➔ Do not use VRvision at temperatures below 0°C and above +40°C. Avoid dropping or mechanical shock, as frame and displays may be deformed.
- ➔ Always switch off and unplug the VRvision when it will not be used.
- ➔ In case of damage contact your retailer. There are no user serviceable parts. Only qualified service personnel should perform any service required on this product.

2 Description

2.1 Head Mounted Display HMD

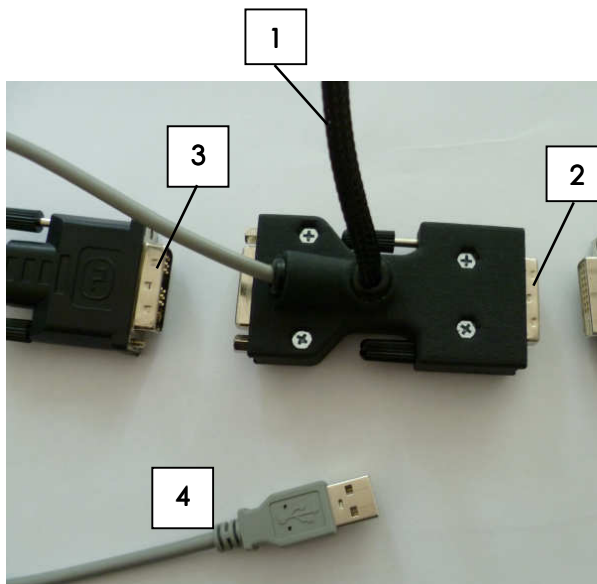
The HMD contains two **microdisplays** (2) to show the images. The **cable** (1) is permanently attached to the HMD and to the dongle element. Without a PC or external video source connected to the device there is no image visible inside the HMD. Into the 3.5mm socket (3) earphones can be connected. There is a built-in microphone (4) on the bottom side of the case.



2.2 DVI Dongle

The DVI dongle contains the following elements:

- (1) HMD cable permanently attached
- (2) DVI connector, Main=Left channel
(connect to graphics card)
- (3) DVI socket, Aux=Right channel
(connect by cable from 2nd DVI graphics card output)
- (4) USB cable for power supply, audio and settings



3 General Operating Instructions

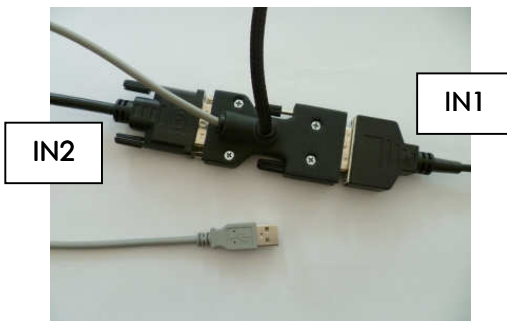
3.1 Installing Software

Please install the HMD adjusting software before you connect the device the first time to your PC.

3.2 Connecting External Video Sources

To prevent damage to the electronic, first connect the video cables with your PC before you power on the device by connecting the USB cable. You can connect the device by plugging the DVI dongle directly into your graphics card (in case of HDMI output you can use converter plug) or by using DVI extender cable. This gives you Input1 (IN1) what is the main channel. You can also connect a second DVI signal to the Aux channel (IN2) from second DVI output of the same graphics card or from another graphics card, see also stereoscopic options "**Fehler! Verweisquelle konnte nicht gefunden werden. Fehler! Verweisquelle konnte nicht gefunden werden.**" page **Fehler! Textmarke nicht definiert.**). The device will automatically recognize the correct signal.

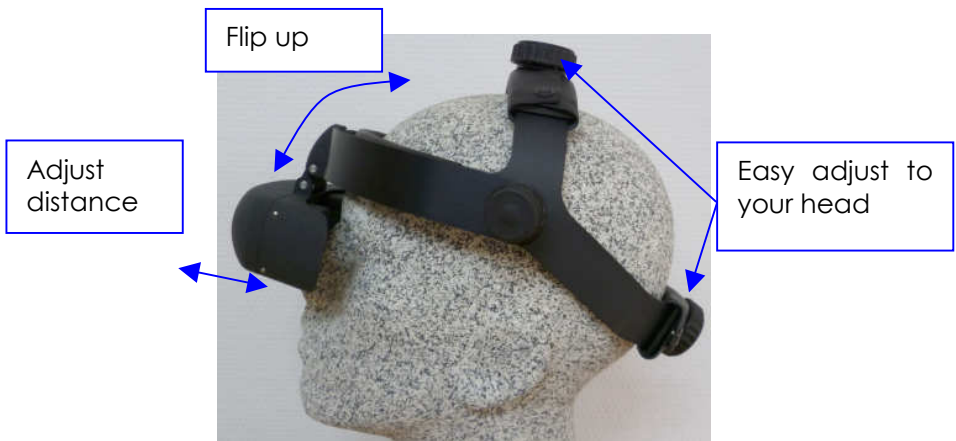
A static image can burn into the microdisplays after an extended period of time !



3.3 Attachment and Mechanical Adjustment

Putting on the HMD

- ➔ Put on the VRvision HMD. Place the headband around the back of your head and pull it just tight enough to make it fit safely and comfortably.
- ➔ On the displays inside the HMD, you can now see the pictures of your video sources.
- ➔ Wearing the HMD you will see your surroundings only constricted. For this reason, please, move only carefully or not at all.



3.4 Adjusting the Interpupil Distance

To optimize the position of the two displays, so that both images are seen as a single visual field, carefully move the oculars into the right position.

