



EyeTech VT2

Hardware Installation Manual

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1.0 Contact information

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1.1 Safety Information on Infrared (IR) Lights

VT2 uses IR lights to illuminate the eyes and provide reference points for the eye tracker. The IR light is produced by LED's at a wavelength of 850 nanometers. This type of IR light occurs naturally in sunlight and in light from incandescent lamps.

The total power consumed by the lights is approximately 3 watts. The measured irradiance at the user's eye under normal operating conditions is less than 1 milliwatt per square centimeter. This is well within the safety guidelines given in the book *1996 TLVs and BEIs* by the American Conference of Governmental Industrial Hygienists.

You may want to consider replacing incandescent bulbs with compact fluorescent bulbs if you experience lighting problems.

1.2 Safety Information on Magnetic field strength

The VT2 uses internal magnets, as a result close proximity to a pace maker or implantable cardioverter-defibrillator (ICD) may result in deactivation of these medical devices. It is not recommended to get the VT2 within 2 inches of a pace maker or ICD.

2.0 Installation

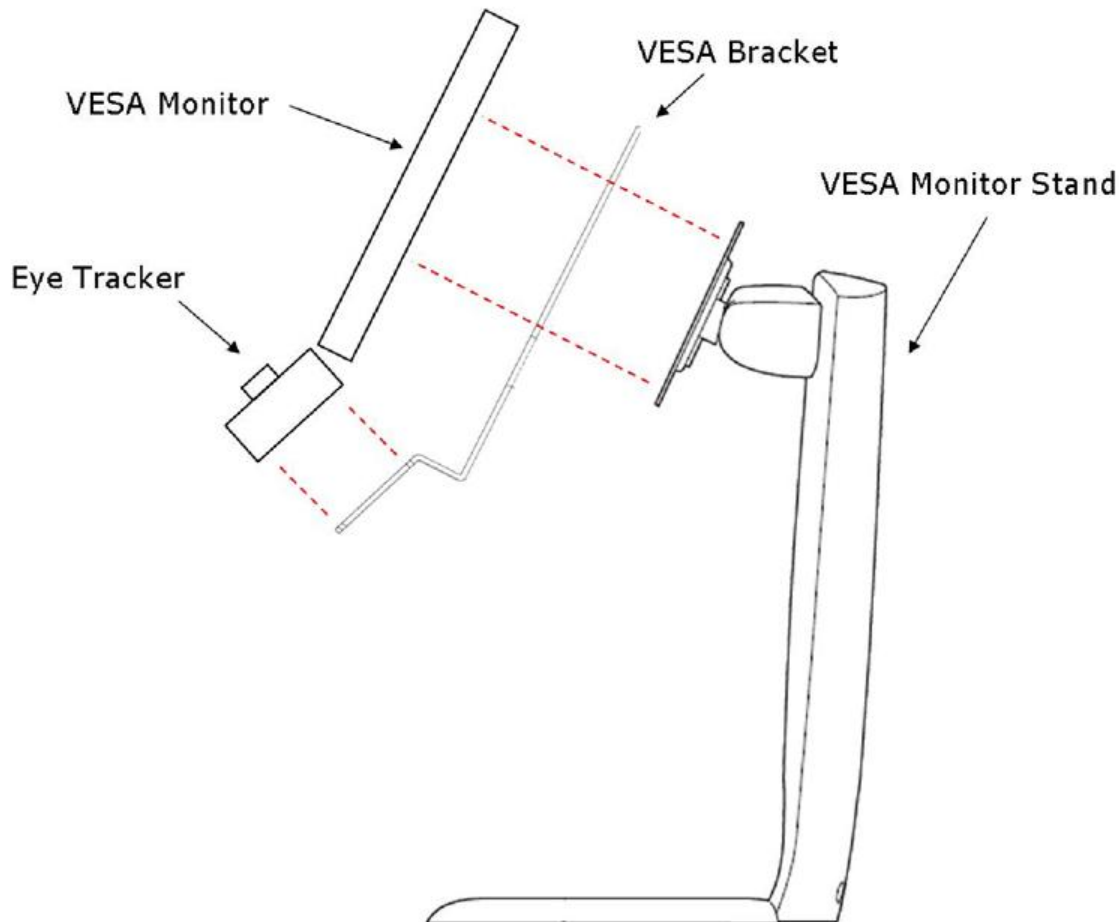
2.1 Room Lighting

Fluorescent lights have no effect on the VT2 eye tracker. Incandescent lights or windows may degrade the operation of VT2, especially if the light source is behind the monitor or behind the user. A light source directly to the side or directly above the user will not usually be a problem. Changing incandescent light bulbs to compact florescent bulbs may improve the performance of the VT2.

2.2 Desktop Installation of VT2

NOTE: VT2 hardware is usually provided with either a table top stand or a VESA mount to be attached to a desktop monitor.





1	Line up the four mounting holes on the VT2 tracking module with the four mounting holes on the VT2 VESA bracket.
2	Insert each of the four screws provided with the bracket in the mounting holes from the back of the stand and tracking module.
3	Tighten the four screws with the included wrench.
4	Line up the four mounting holes on the VESA monitor with the four mounting holes on both the VT2 VESA bracket and the VESA desktop stand.
5	Insert each of the four screws provided with either the VESA desktop stand or the VESA monitor into the four mounting holes on the VESA monitor.
6	Insert spacers as needed and then tighten the four screws.

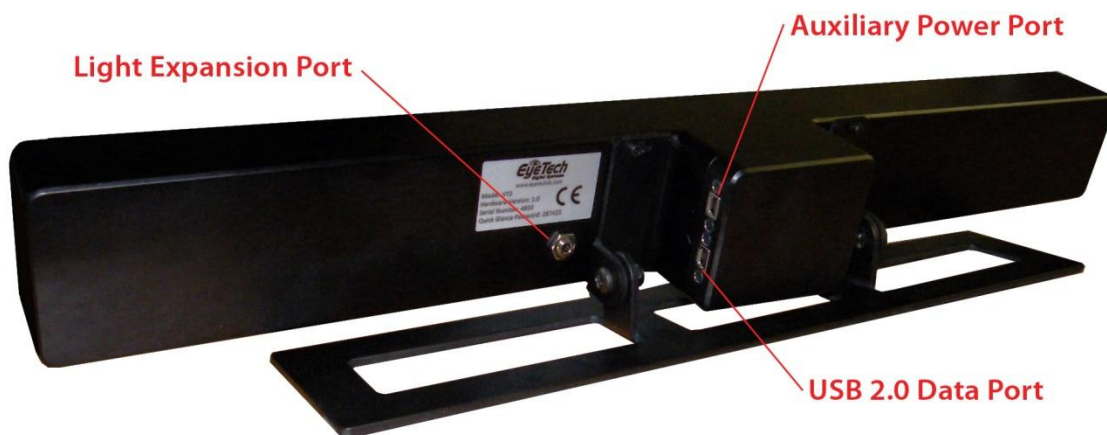
2.3 Tabletop Installation of VT2

Place the VT2 eye tracker on the tabletop stand as close to the bottom of the monitor as possible.

1	Line up the four mounting holes on the VT2 tracking module with the four mounting holes on the VT2 stand.
2	Insert each of the four screws provided into the mounting holes on the back of the stand and tracking module.
3	Tighten the four screws with the included wrench.

2.4 VT2 Ports

The VT2 Eye Tracker has 3 ports.



1	USB 2.0 Data Port: Connect the system to the computer via the USB 2.0 cable plugged into the USB 2.0 Data Port shown above.
2	Light Expansion Port: Usage of the Light Expansion Port is optional and is for adding additional light arrays for custom installations.
3	Auxiliary Power Port: Some computer systems may require the use of the Auxiliary Power Port in addition to the Data Port. Verify that the red LED light on the bottom of the camera is on. If it is not, the camera is not receiving power from the USB 2.0 port.