EyeTech Digital Systems

EyeTech VT1

Hardware Installation Manual

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1.0 Contact information

Contact Information:

Corporate Headquarters:
EyeTech Digital Systems
1128 E Greenway St. Suite 1
Mesa, AZ 85203-4362
USA

Website:	www.eyetechds.com	
Phone:	480-704-3158	
Fax:	480-718-5243	
Email:	info@eyetechds.com	General product information
	support@ eyetechds.com	Technical support
	service@eyetechds.com	Order placement and inquiries about existing orders

1.1 Safety Information on Infrared (IR) Lights

VT1 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 VT1 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 VT1 within 2 inches of a pace maker or ICD.

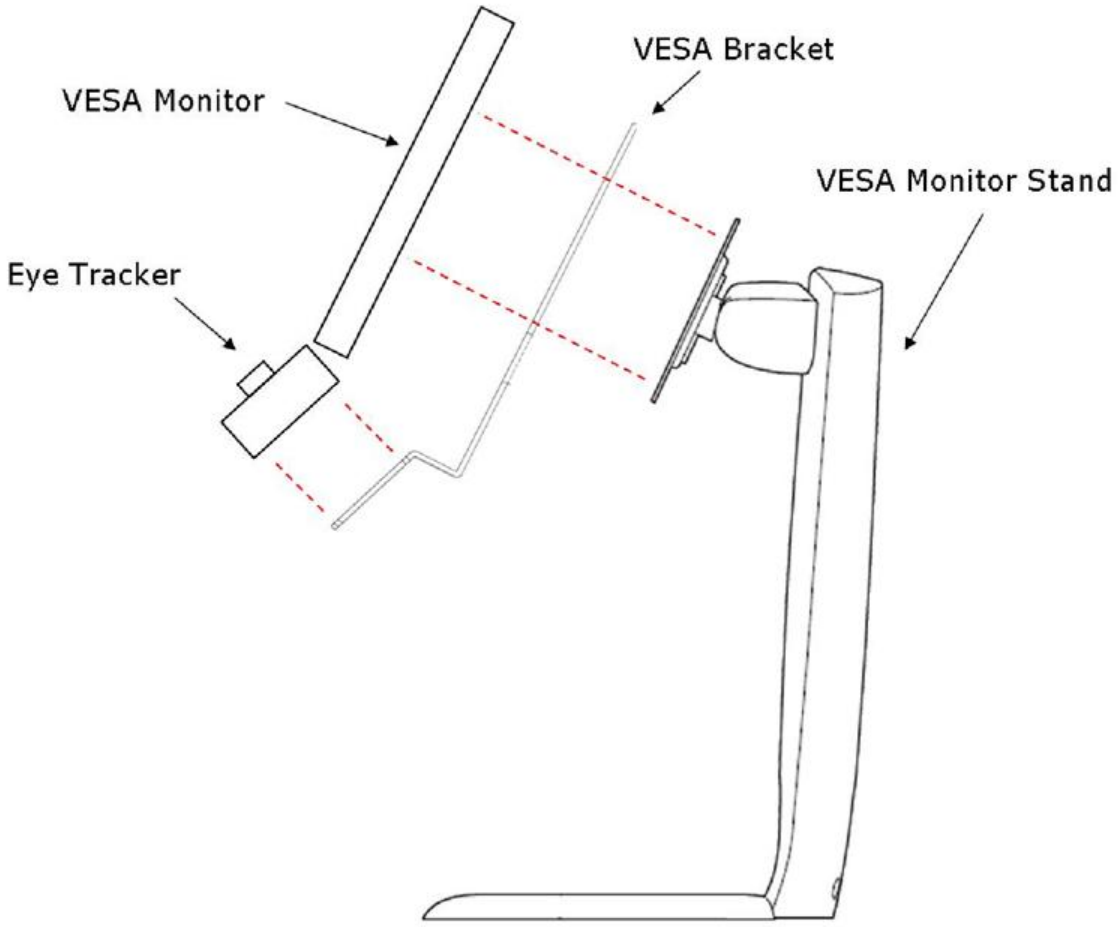
2.0 Installation

2.1 Room Lighting

Fluorescent lights have no effect on the VT1 eye tracker. Incandescent lights or windows may degrade the operation of VT1, 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 VT1.

2.2 Desktop Installation of VT1

NOTE: VT1 hardware usually comes pre-configured 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 VT1 tracking module with the four mounting holes on the VT1 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 VT1 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 Table Top Installation of VT1

Place the VT1 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 VT1 tracking module with the four mounting holes on the VT1 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.
4	Verify that the camera is attached to the computer via the FireWire cable.
5	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 FireWire port. If this is the case, you need to use the included power supply.