

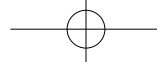
# VADER USE GUIDELINES

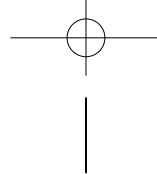
LET'S GET STARTED

MADGAZE

[www.madgaze.com](http://www.madgaze.com)

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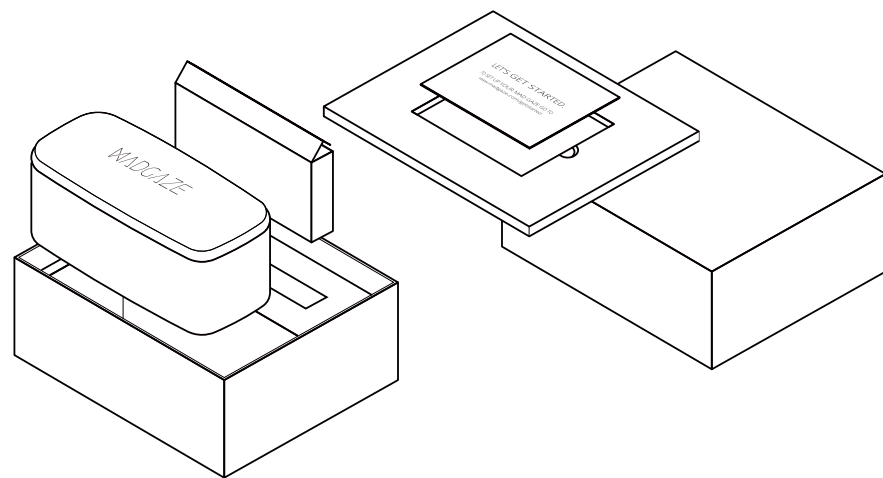
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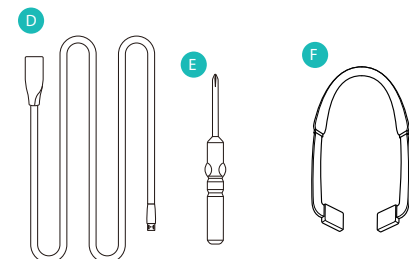
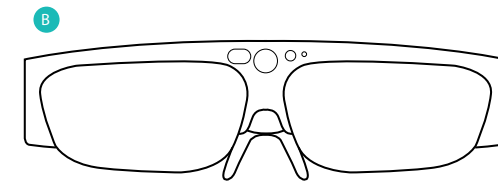
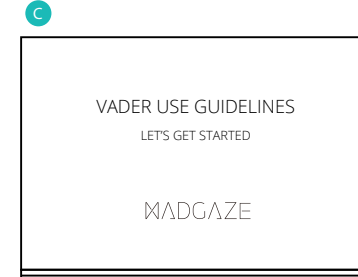
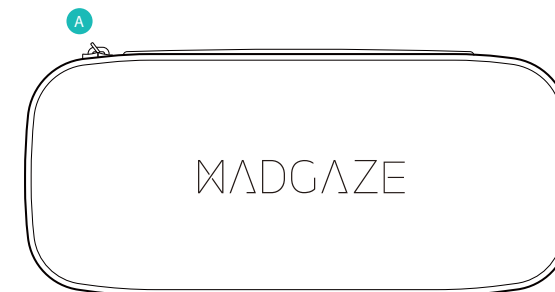
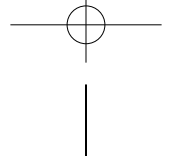
### Package Overview

Check the product box for the following items:

MAD Gaze Vader smart glasses, glasses case, Micro-USB to USB cable, screwdriver, glasses strap and use guidelines.

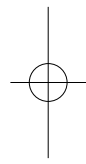
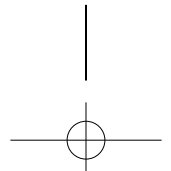


⚠ Please use only MAD Gaze approved accessories. The use of unapproved accessories may cause performance problems and failures, which are not covered by the warranty.



- A Glasses case
- B Vader smart glasses
- C Vader use guidelines

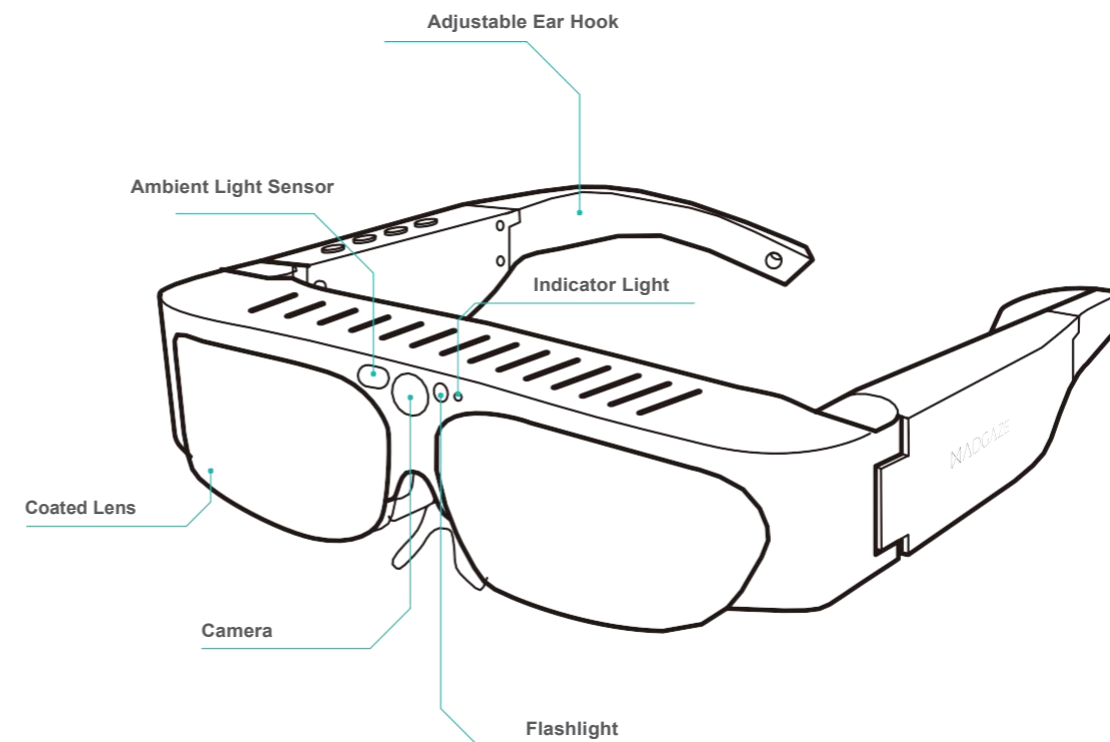
- D Micro-USB to USB cable
- E Screwdriver
- F Glasses strap



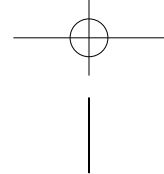
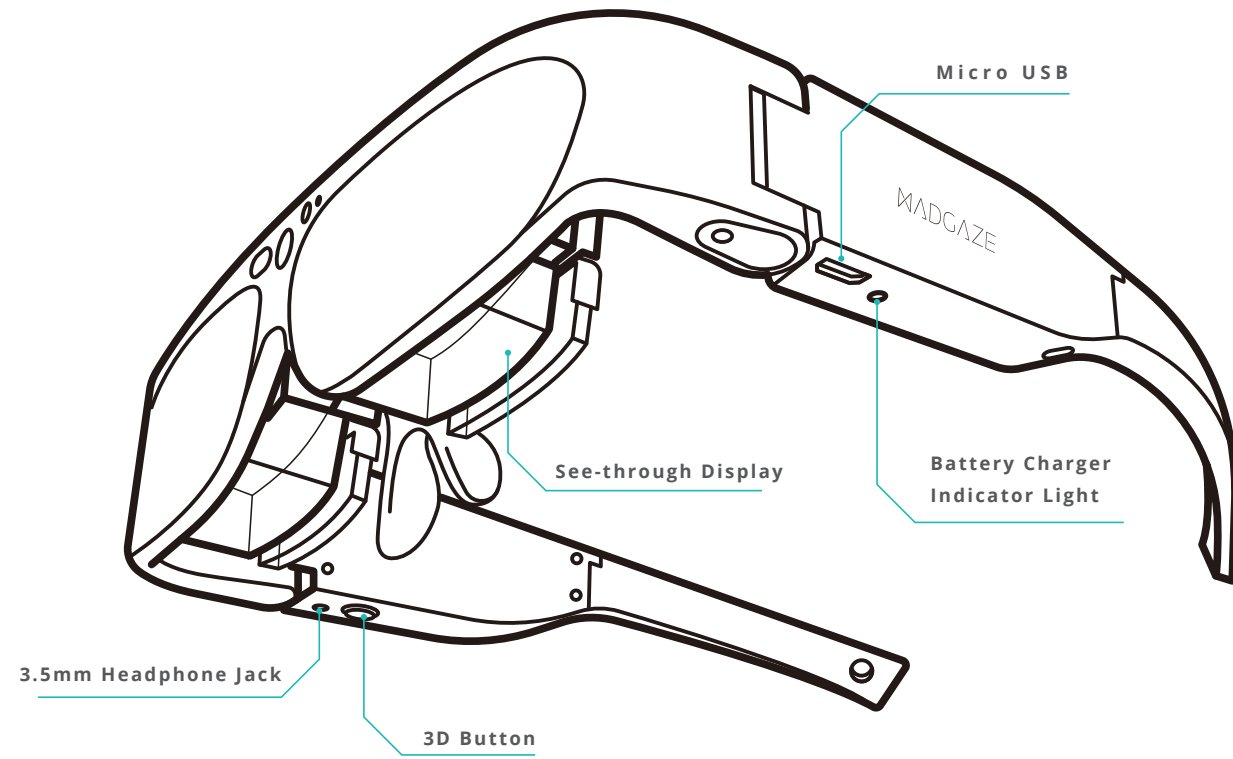
## Hardware Specification

<b>Product Model</b>	: Vader	<b>Positioning</b>	: GPS / WIFI
<b>Operating System</b>	: Android 7.0	<b>WIFI</b>	: 802.11 b/g/n (2.4GHz)
<b>CPU</b>	: 1.5GHz Quad-Core	<b>Audio</b>	: Built-in Stereo Speakers, Built-in Microphone
<b>Resolution</b>	: 1280 x 720 pixels	<b>Sensors</b>	: Gyroscope, Accelerometer, Magnetometer, Ambient Light Sensor, Proximity Sensor
<b>FOV</b>	: 45 Degrees	<b>Camera</b>	: 8M pixels, supports Flashlight and Auto-focus
<b>RAM</b>	: 3GB	<b>Touch Panel</b>	: Support Multi-touch
<b>Capacity</b>	: 32GB (Operating system and system applications have occupied part of the storage space, the usable free space may be less than the nominal storage capacity.)	<b>Display Adjustment</b>	: Support IPD Adjustments
<b>Battery</b>	: 1140mAh	<b>Corrective Lenses</b>	: Support (Dedicated Corrective Lenses can be purchased from MAD Gaze Mall)
<b>Connection</b>	: Micro USB 2.0 OTG	<b>3D Mode</b>	: Support (Use with relevant apps and contents)
<b>Headphone Jack</b>	: 3.5mm Stereo Audio		

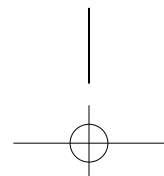
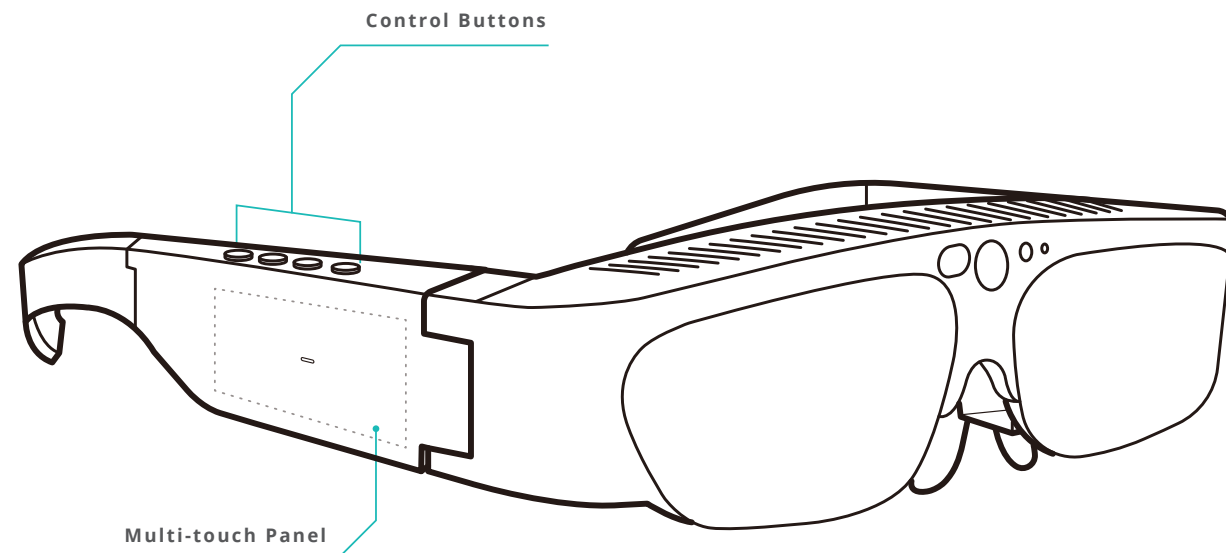
## Mechanism



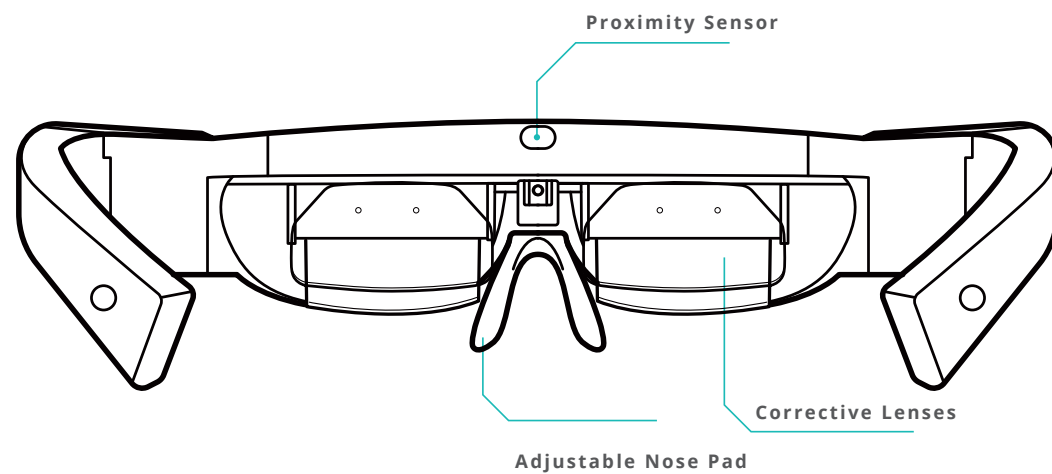
### Mechanism



### Mechanism



## Mechanism

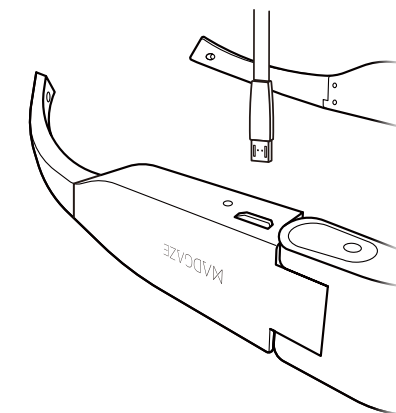


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## Start Using

After unboxing Vader smart glasses, charge the battery for at least 4 hours in the off mode before use. Connect the Micro-USB cable that comes with Vader to Micro-USB port on Vader body; connect the other end of the Micro USB cable to the charger USB port. When power indicator is on, the glasses start charging. The smart glasses can be charged either when its power is on or off.

**▲** When charging Vader, you are recommended to place it as shown on the diagram to avoid collision with the see-through display.



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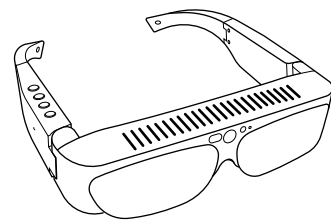
## Wearing Vader

### Warning

- » Do not wear Vader while wearing eyeglasses. Doing so may result in facial injury.
- » Keep the screen clean and avoid scratching the screen. If the screen is dirty or fogging, it is recommended to gently wipe it with a screen cleaning cloth.
- » When wearing Vader, the face cushion may become dirty due to sweating on the face. It is recommended to use a clean soft cloth to slightly wet with cold water, gently wipe the face cushion part you want to clean, and then place it at room temperature and allow to air dry naturally. Do not dry, iron or place in direct sunlight.
- » When not wearing the Vader, do not place objects on the proximity sensor inside Vader. Doing so will cause the proximity sensor to stay on and deplete Vader's power.

The method of wearing Vader is similar to ordinary glasses, with adjustable nose pads and adjustable ear hooks, allowing the user to adjust until it fits his own head shape. In addition, Vader has adjustable displays, users can adjust the distance between two displays, to fit the needs of different interpupillary distance. To learn how to adjust the nose pad and ear hooks, please refer to: **Adjusting Nose Pad**, **Adjusting Ear Hooks**. To learn how to adjust the interpupillary distance, please read: **Adjusting Display Distance**.

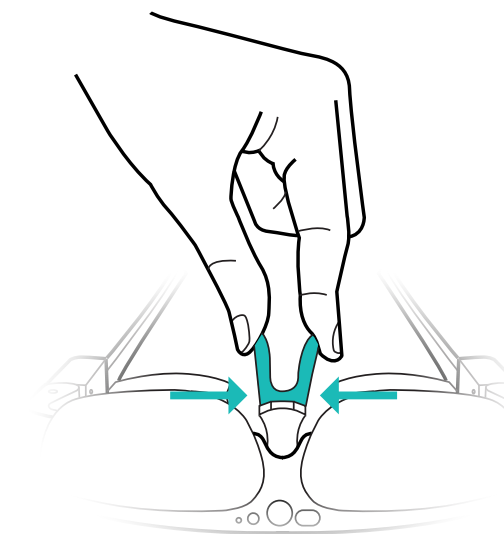
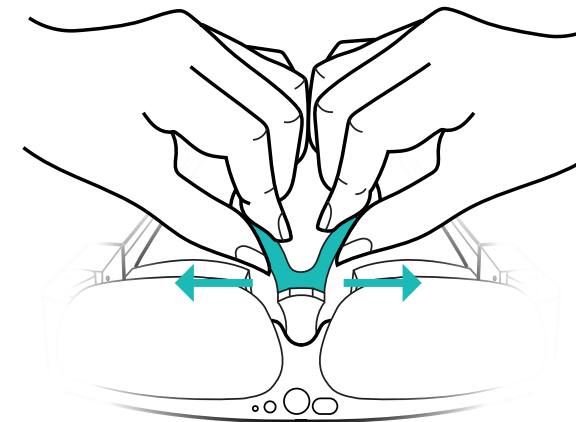
If you need to use corrective lenses, please read: **Using Corrective Lenses**.



## Adjusting Nose Pad

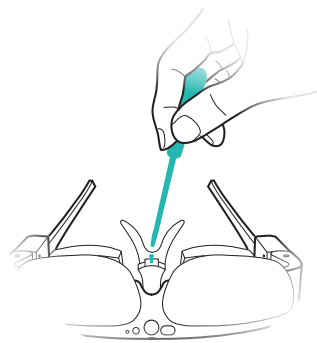
### Adjusting Tightness

If Vader is too low on the nose bridge, use your fingers to push the two rubber stilts inward to reduce the spacing until you feel comfortable. If the position is too high, then slowly prop up the two rubber stilts. The adjustment should not be excessive. The distance between the front and the rear of the nose pad can also be adjusted to fit you the best by twisting the screws.

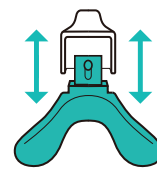


### Adjusting Positions

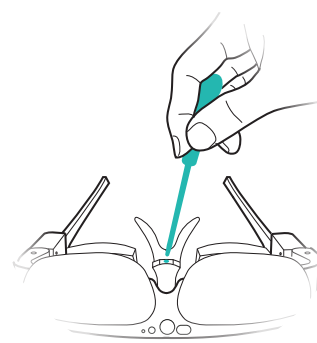
You can use the screwdriver to adjust the positions of the nose pad to ensure that the entire screen is visible and comfortable to wear.



- 1 Loosen the screw counterclockwise until there is enough space for the nose pad to travel to its appropriate position (it is not necessary to loosen the whole screw)



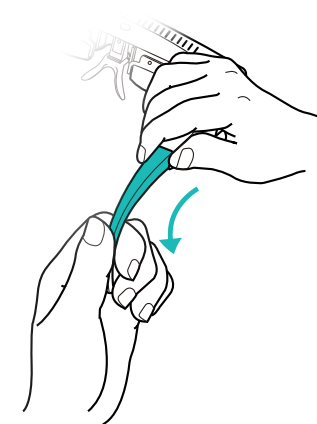
- 2 Adjust the nose pad to the right position



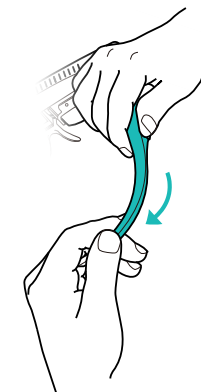
- 3 Tighten the screw clockwise (tighten until the nose pad cannot be moved)

### Adjusting Ear Hooks

The role of the ear hooks is to make the glasses steady on the head. If your Vader glasses are tilted downwards during use, you can adjust the ear hooks according to the following two steps.



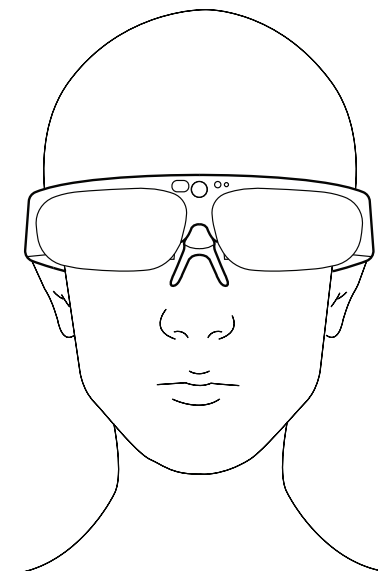
- 1 Gently bend the ear hooks downwards



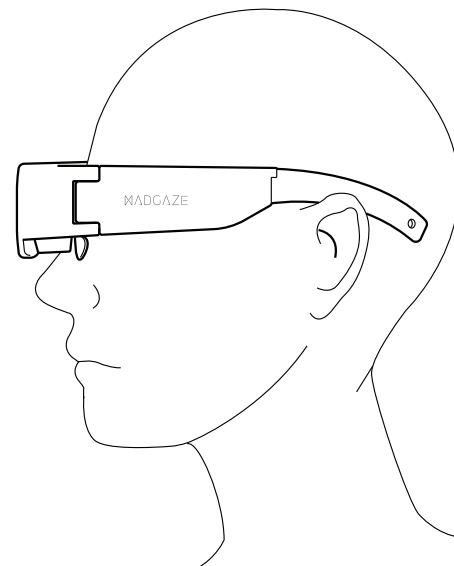
- 2 Gently bend the ear hooks inwards; bend them in the opposite direction if you feel they are too tight



When you wear Vader properly, the screen should be level with the eyes. If the screen is tilted, adjust Vader as shown in the image below until you see the entire screen.



Front



Side

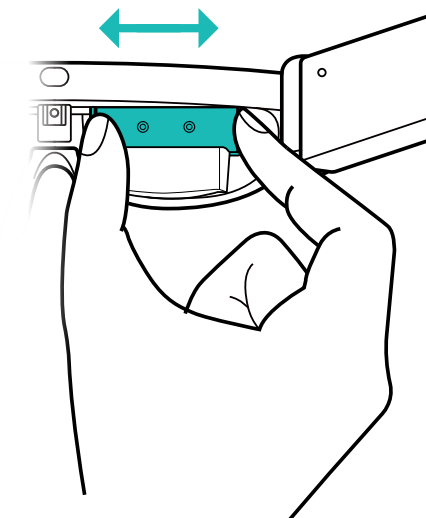
## Adjusting Display Distance

Interpupillary distance (IPD) is the distance between the pupil centers of both eyes. If the distance between two screens is close to your IPD, you will get a clearer image.

- » If you cannot see a clear image after wearing Vader, try slowly using your fingers to slide both displays toward the center, or to the end of the center until you see a clear image.
- » If you still cannot see a clear image, try slowly using your fingers to slide both displays toward the glasses temples, or go to the very end until you see a clear image. For details, please refer to the official tutorial video.

<http://www.madgaze.com/support>

- ⚠ Please slide the displays carefully so as not to damage the smart glasses with excessive force.

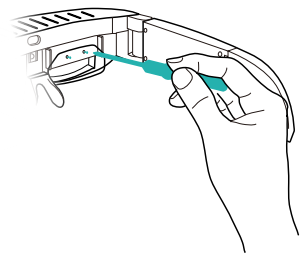


## Using Corrective Lenses

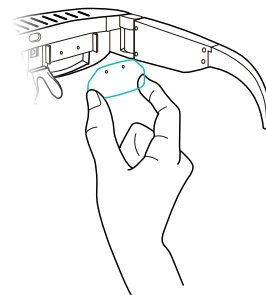
If you need to use corrective lenses, you can purchase Vader-dedicated corrective lenses from MAD Gaze Mall. You are suggested to visit a professional optician to perform optometry.

During optometry, please remind the optometrist that the Vader should be adjusted to the angle to be worn in the future (nose pad and glasses temples) and try it on to ensure a correct focal length.

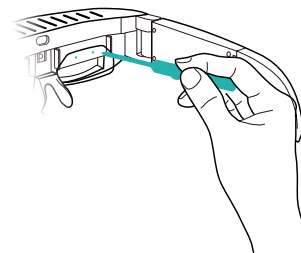
### Mounting and Dismounting Dedicated Corrective Lenses



- 1** Loosen the screws counterclockwise



- 2** Place the dedicated corrective lenses at the right positions








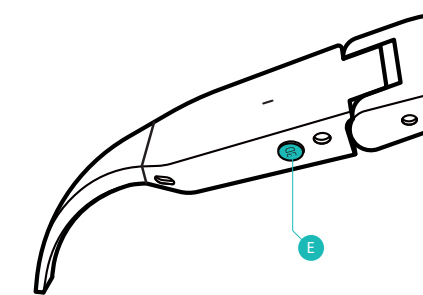
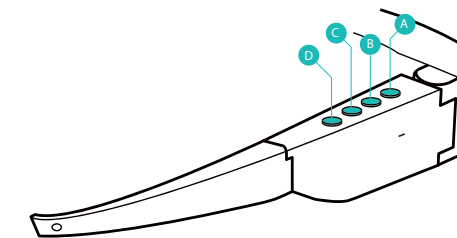
- 3** Tighten the screws clockwise until the corrective lenses cannot be moved

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## General Controls

### Buttons

-  **A: Control Button 1**  
Short press to select item.  
Long press to return to home.
-  **B: Control Button 2**  
Short press to move right/down to next item.  
Long press to enter the app menu.
-  **C: Control Button 3**  
Short press to move left/up to the previous item.  
Long press to return to the previous screen content.
-  **D: Control Button 4**  
Short press to sleep/wake up screen  
Long press to turn on/off
-  **E: 3D Button**  
Short press to switch to 3D mode. (Some apps may not support 3D mode.)

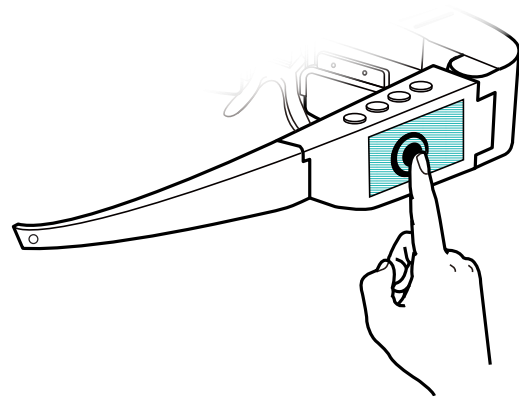


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### Multi-touch Panel

Multi-touch Panel is located on the right side of Vader smart glasses.

- » To avoid damage to the multi-touch panel, do not touch the multi-touch panel with any sharp objects, or use excessive force when touching with your fingertips, or contact with other electronic devices.
- » The edge of the multi-touch panel may have less sensitivity. Please operate closer to the center to achieve the best result.

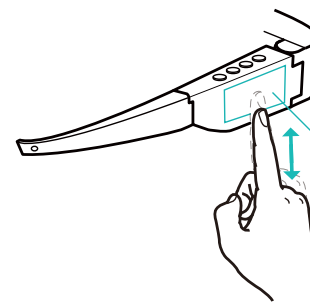


#### Best Sensing Area

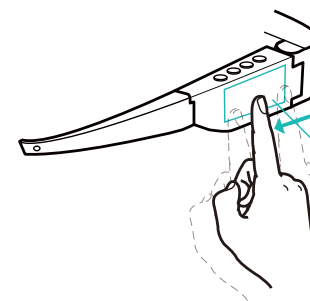
Please use touch control within the indicated area. The shaded area is the best sensing area.

### Sliding

Multi-touch panel can sense the following two types of sliding of a finger.

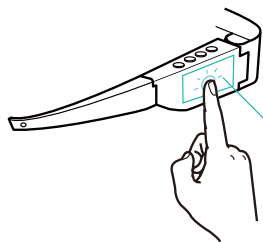


One finger slides up/down to select up/down



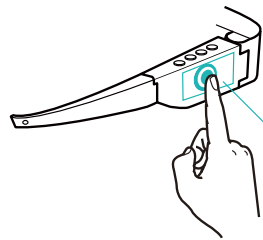
One finger slides left/right to select left/right

One-finger Control



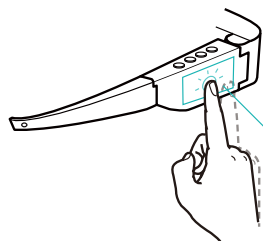
Single Tap

Confirm: Single tap with one finger to confirm.



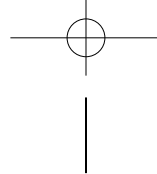
Long Press

Exit app: Long press with one finger (on any page) to home.

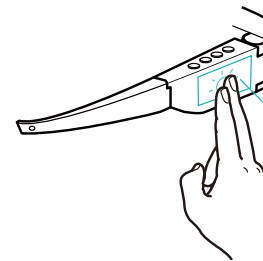


Double Tap

Return: Double tap with one finger on any page to back.

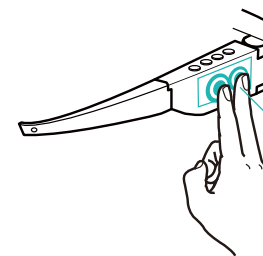


Two-finger Control



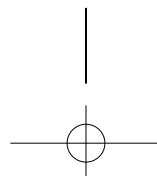
Single Tap

Tap once with two fingers (when an app runs) to enter app settings.



Long Press

Long press with two fingers (on any page) to control center.



### MAD Gaze Connector

You must download the “MAD Gaze Connector” app to your mobile phone to complete the MAD Gaze Vader tutorial. If you have not downloaded yet, please download “MAD Gaze Connector” from Play Store or App Store.

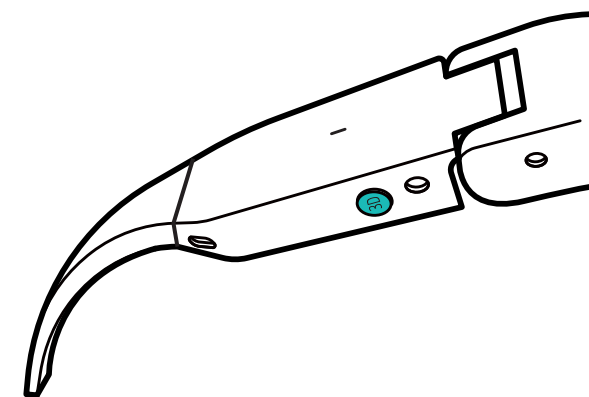
You may also visit MAD Gaze official website to download the app.

<http://www.madgaze.com/support>



### Switching To 3D Mode

Some apps may contain 3D functions or contents. You can press the 3D button to switch to 3D mode. If the app you are using does not support 3D, a prompt will pop up, you can still press the 3D button again to switch to 3D mode. (Note: Forcibly switching to 3D mode may affect the screen display. Press the 3D button again to resume normal display.)



## Warranty

- » We will provide an all-round Three Guarantees Service for your MAD Gaze Vader smart glasses according to “The Warranty Regulations of Three Guarantees” enacted by relevant authorities in People’s Republic of China.
- » Warranty Period will be counted from the day the product is activated, for one year. The valid warranty period can be checked up on MAD Gaze Connector or “My Device” on MAD Store.
- » Within 7 days after the product is activated, if the product is malfunctioned, you can either return or replace your product, or you may wish to have it repaired by an authorized maintenance service provider.
- » From the 8th to 30th day after the product is activated, if the product is malfunctioned, you can either replace your product, or you may have it repaired by an authorized maintenance service provider.
- » Within 1 year the product is activated, if the product is malfunctioned, you can have it repaired by an authorized maintenance service provider. If the product is still malfunctioning after repairing for twice, you can exchange for another device with same model number and specifications for free, by providing the maintenance records.
- » MAD Gaze Warranty Centre is located in People’s Republic of China, our company will not be liable for any costs incurred as a result of the warranty procedures (including, but not limited to: freight, taxes, customs fees, and all other possible fees), all buyers must bear all relevant expenses.

## Limited Warranty

- » Your warranty services are valid under normal usage/application only, the following conditions are excluded from the Three Guarantees and there will be reasonable charge for the warranty service:
  - The free maintenance period of the product has expired.
  - Mechanical failure due to application of fittings not recognized by our company.
  - Damage caused by disassembling the product by repairer who is unauthorized by our company.
  - Damage caused by failing to operate the product according to the manual, or incorrect/improper handling of the product.
  - Malfunction caused by improper use, maintenance or storage.
  - Products natural wear and tear (including, but not limited to outer case, display, attachments).
  - Damage caused by force majeure.
- » All the losses and damage caused by environmental factors, such as rough handling, temperature, and other factors which beyond our company’s control.
- » If user cracked the Android system, or illegally obtained the root privileges, causing malfunction of this product, we reserve the right to refuse providing warranty services.

## Cautions

- » Use only the supplied USB cable. Using other USB cable may cause overheating, fire, explosion, failure or leakage.
- » Do not detach the power cable by coercive pulling.
- » Do not allow metal objects, flammable materials or other objects insert or fall into the power connector, power port or speaker it may cause short circuit and trigger fire or electric shock.
- » Some users might experience skin irritation or skin allergies with prolonged use of this product. If you notice any symptoms, please discontinue wearing or using the product. Continuous usage after symptoms subside might cause symptom reappearance. If the condition persist, please consult your doctor.
- » This product contains electronic equipment, improper use might result in injury.
- » To avoid exceeding the weight-bearing limit of this product, do not put this product inside bags directly or expose to any other heavy objects.
- » This product has relatively low liquid ingress grade, avoid direct contact with liquid.
- » Keep this product clean and dry regularly.
- » Do not open the product outer case or disassemble it.
- » Stop using the product immediately if any cracks were found.
- » Substances contained in this product and its battery might jeopardize the environment or cause injury, please handle and dispose properly.
- » Do not exert force, shake, or place this product in environment with excessive dust, or fluctuating temperature and humidity.
- » Protect this product from vigorous shock or vibration.
- » Do not place this product in any dishwashers, washing machines or dryers.
- » Do not place this product under extreme temperatures.
- » Do not place this product under long and direct sunlight exposure.
- » Do not wipe this product with corrosive detergent.

- » Do not allow this product to contact with solvents, including, but not limited to alcohol, benzene or thinner, nor use damp cloth or solvents to clean this product. When the outer case of this product has cracked, it may induce short circuit, failure or fire.
- » Do not disassemble or reassemble this product, it may cause injury or intoxication.
- » Do not place this product in fire or heat up this product, nor place inflammable objects, including, but not limited to candles, near this product, otherwise it may cause fire or (battery) explosion.
- » Do not wear this product while it is charging.
- » Do not charge this product when it is wet.
- » Immediately stop wearing if you feel unusual heat emitted from this product.
- » If there is any known condition that might affect normal use of this product, please consult your doctor in advance.
- » Do not wear this product when handling hazardous tasks, it may cause accident or injury.
- » Do not use this product in unsettling locations, including, but not limited to stairs or slope.
- » Moreover, do not use this product in crowded or dim places, it may cause accident or injury.
- » Please stay alert to the surroundings if using this product while walking, this may cause accident or injury.
- » Please be aware of the surroundings when using this product in compact area.
- » Continuous or prolonged wearing of product may affect vision.
- » Vision of children (especially pre-school children) is still under development, they should not use this product.
- » Do not allow children or animals to chew or swallow the equipment.
- » Do not use this product if lights will cause you allergy or nausea. Otherwise, the symptoms may exacerbate.
- » Person who has chronic eye disease should not use this product, otherwise, symptoms, including, but not limited to strabismus, amblyopia or anisometropia, may exacerbate.
- » Take regular breaks when using this product. Prolonged viewing image may cause eye fatigue or discomfort, stop using and take rest. Stop using immediately if fatigue or discomfort persists after resting.
- » If problem or failure occurs, stop using this product immediately. Continue using this product may cause injury or induce nausea.

- » If this product is to be taken to regions which prohibit the use of electromagnetic wave, including, but not limited to planes, hospitals, the product should be turned off or having Bluetooth or wireless LAN functions disabled, according to the regional instructions. Do not use Bluetooth or wireless LAN functions near automatic control equipment, such as automatic doors or fire alarms. Disable the automatic power-on function before turning off this product. Electromagnetic wave may cause electromagnetic interference or failure to the medical equipment.
- » Do not take this product into operating room, intensive care unit (ICU) or coronary care unit (CCU).
- » Turn this product off in ward, or shut down the electromagnetic wave emission.
- » Turn this product off or shut down the electromagnetic wave emission if there is electronic medical equipment nearby.
- » Follow the medical regulations for prohibiting electromagnetic wave emitting equipment, these equipment is prohibited in special area.
- » If you are implanted with a pacemaker or defibrillator, keep this product with your implanted device at least 22cm away when using. Make sure no one with a pacemaker is near before using this product, turn off the product if you are in a crowded place.
- » Turn this product off or shut down the electromagnetic wave emission on planes.
- » Eliminate static electricity from your body before using this product. To avoid electrostatic disturbance, make use of small metal piece (e.g. keys), cotton wipe, or other applicable objects, to touch the doors, door handles, faucets, etc., to eliminate static electricity, and then touching any of these objects with your bare hands.
- » The production and manufacture of this product is subject to the national specification of sales territory. If you use this product outside the country of sales, please contact our Customer Service Department: [cs@madgaze.com](mailto:cs@madgaze.com).
- » To use this product for application in high degree of functional reliability/safety and precision, for example, transport-related equipment such as aviation, railways, shipping, vehicle, disaster prevention equipment, safety equipment, you should consider including failure insurance and redundancy into your application to maintain safety and reliability of the whole system, before using this product.
- » This product is not designed for application that requires extremely high reliability/safety, such as aviation equipment, main communication equipment, nuclear power control or medical equipment directly related to medical use. User should access and judge for whether this product is suitable for application.

- » Any unauthorized operating system updates may pose risk to your information.
- » Do not duplicate the content in this guide for any use unless permitted by our company.
- » The version number of this manual is MANUAL.VADER.v1.0. Final copy is based on the latest version on our website. Please read <http://www.madgaze.com/support>.
- » Our company has the right to final interpretation of this manual.



### **FCC Statement**

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

To assure continued compliance, any changes or modifications not expressly approved by the party.

Responsible for compliance could void the user's authority to operate this equipment. (Example- use only shielded interface cables when connecting to computer or peripheral devices).

This equipment complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

RF warning statement:

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.