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If you have any questions or suggestions concerning the use of this product, please contact your distributor or ZOOMAX by e-mail: sales@zoomax.co.

To search the knowledge base, please visit www.zoomax.co or choose the relative links.

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1. Safety Precautions and Maintenance

To keep the Mars HD in a good condition, please read the following safety precautions carefully:

- ▶Do not use the Mars HD near excessive heater or expose it to direct sunlight for long hours to avoid the risk of fire.
- ►Keep the Mars HD away from moist places, rain, liquids of any kinds.
- ▶Remember to use the Mars HD in an environment where the temperature is between 10°C and 40°C (50 and 104F).
- Always turn OFF the Mars HD when the system is not in use.
- ▶ If needed, clean the surface of the Mars HD with a soft damp cloth or an electrostatic dusting wipe. DO NOT use liquid cleaners on the plastic surfaces. No additional methods of sterilization or cleaning are recommended or required.

2. Accessories

- Carrying case
- User's Guide
- HDMI cable
- USB cable





HDMI-to-DVI Adapter



AC Adapter



• Lens cloth



USB flash disk



Strap for carrying case

400

3. Setting up Your Mars HD

3.1 Getting Started

Take out the Mars HD from the ZOOMAX carrying case. Please put the device on a stable & horizontal surface. (See Figure 1)



Figure 1

3.2 Unfolding Your Mars HD

Hold the Mars HD with both of your hands. Pull the arm connected to the camera head gently to a horizontal position. (See Figure 2)



Figure 2

- Continue to hold the base of the unit, and then pull the arm of the Mars HD up slowly until it is fixed. (See Figure 3)
- When the device is opened, grasp the feet at the bottom of the Mars HD and stretch them out in maximum. Rotate the camera head counter-clockwise 90° and turn the camera lens toward an object that you wish to aim at. (See Figure 3)



Figure 3

NOTE: The regular position of camera head is rotated counter-clockwise of 90° (See Figure 4), so the image on the monitor or computer screen will be right. If the position of camera head is turned clockwise of 90°, you need to use the Rotate Function to right the image.



Figure 4

3.3 Charging

The Mars HD is equipped with a built-in battery. To charge the battery of the unit, simply plug the supplied Power Adapter to an available Power Outlet. (See Figure 5)



Figure 5

4. Using Guides

4.1 General Guidelines for Use

- ▶ Please operate the Mars HD on a stable & horizontal surface, such as a solid desk or a table, according to its intended design specifications.
- ► Always use the power supplies provided in your package. Do

not use any other power supplies, for doing so will harm the unit and void the warranty.

- ► To avoid the risk of electrical shock, please do not attempt to disassemble the unit. Please refer all services to an authorized repair facility.
- ► Please charge the battery before using the Mars HD. It takes approximately 3 hours to fully charge.

4.2 Button Functions (connected to a monitor or TV via HDMI port)



4.2.1 Normal Mode

a. Power On/Off: Press and hold the Power Button

until you hear ONE beep, and the unit will be booted up/turned off.

- b. **LED On/Off**: Press LED On/Off Button to turn the LED Light on/off.
- c. **Zoom Control**: To increase the zoom, turn the Zoom Knob clockwise; to reduce the zoom, turn the Zoom Knob counter-clockwise.
- d. Find Function: Press and hold the Find Button on the camera head and a "target" (as shown in Figure 6) will appear in the center of the screen. Move the reading material until you have located the desired item within the "target" area. Release the Find Button and it will magnify the item you located within the targeted area. (See Figure 7)





Figure 6

Figure 7

NOTE: You cannot use the Find Function if you are magnified at 2X.

e. Freeze Function: Short-press the Freeze Button to freeze the real-time image. The Freeze icon appears

on the top left corner of the screen. Press the button a second time to return to the camera's live view.

f. Focus Lock Function: Press and hold the Freeze Button
, release the button once a beep is heard, and the
Focus Lock icon will appear on the top left corner of
the screen. This can be used when you wish to write by
hand. Autofocus will not be affected by the pen or your
hand.

NOTE: Once the focus lock function is activated, you can manually adjust focus by rotating Zoom Knob.

- g. Exiting Focus Lock Function: Press and hold the Freeze Button , release the button after you hear one beep. The Focus Lock icon disappears and the unit goes back to Autofocus.
- h. Color Mode Function: Short-press the Color Mode

 Button to switch between the four favorite color
 modes and one full color mode.
- i. Factory Reset: Press and hold both the Mode Button and the Find Button for 10 seconds to restore its original manufacturing settings.

j. Viewing Modes

To change the viewing modes, just simply rotate the

camera. There are three types of viewing modes for your options:

- Reading-viewing
- Distance –viewing
- Self-viewing







Distance-viewing



Self-viewing

Reading-viewing

The Camera can be adjusted downward for reading, writing and other use. When viewing in this mode, please make sure that the close-up lens is closed, and the reading material on the desk is straight downward the camera lens.

Warm Tips: If you are reading a thick book under the camera, the unit may fail to focus on the text. In this case, try elevating your Mars HD by putting a flat board or a book under the unit.

Distance-viewing

The Camera can be rotated forward 90° to capture people, objects and scenery on the basis of Reading-viewing mode. When viewing in this mode, please open the close-up lens,

and point the camera at viewing objects.

NOTE: Camera can be rotated vertically 330° and horizontally 180°.

Self-viewing

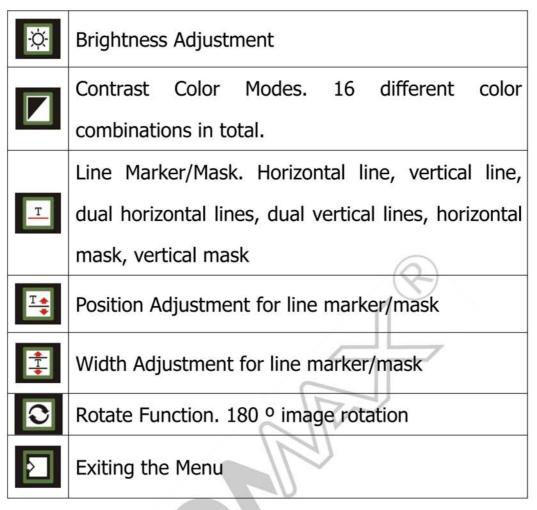
The Camera can be rotated backward 90° on the basis of Reading-viewing mode to provide you with the equivalent of a mirror. When viewing in this mode, please be sure to keep the close-up lens closed, and adjust the camera to aim at yourself.

NOTE: The recommended distance for self-viewing is 25-50cm. You can refocus on the image by turning the Zoom Knob clockwise/counter-clockwise if it is out of focus.

4.2.2 Menu Mode

You can access the menu by pressing and holding the Freeze
Button for 5 seconds or until the unit beeps TWICE.

Once the below setup menu shows on screen, turn the Zoom
Knob to cycle through the functions and press the Mode
Button to confirm and/or enter a sub menu.



a. Brightness Adjustment

Press the Mode Button to select this function, then the main menu disappears and the red Brightness Slider shows on-screen (see Figure 8); Turn the Zoom Knob to increase or decrease the brightness; Press the Mode Button again to confirm and navigate to the main menu.



Figure 8

The Mars HD will automatically remember corresponding brightness settings in each color mode.

b. Favorite Color Modes (full color mode in default, and your 4 favorite color modes can be chosen among 16 available color modes).

Press the Mode Button to select this function, then the main menu disappears and a sub setup menu shows on-screen (see Figure 9); Press the Mode Button to confirm the color you have selected, and the Icon Border will disappear when chosen; Deselect it by pressing the Mode Button again, and the Icon Border will reappear; Turn the Zoom Knob to cycle through the 16 color modes and choose your 4 favorite color modes among them; It will go back to the main menu automatically after 4 favorite color modes are selected.

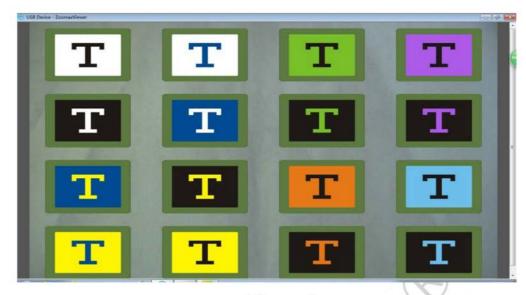
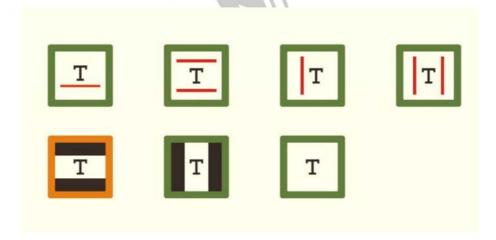


Figure 9

c. In the Line Marker/Mask menu, you will find the following options by pressing the Mode Button . Press the Mode Button again to enable one marker, and then it will automatically switch back to the main menu.



- Horizontal line
- Dual horizontal lines
- Vertical line
- Dual vertical lines
- Horizontal mask

- Vertical mask
- No line marker/mask
- d. Line Marker/Mask Position Adjustment (Enabled only when one type of line marker/mask is selected)

The main menu will disappear after pressing the Mode Button ; Turn the Zoom Knob to adjust the position of the selected Line Marker/Mask; Press the Mode Button again to confirm and go back to the main menu.

- e. Line Marker/Mask Width Adjustment (Enabled only when Dual Horizontal Lines, Dual Vertical Lines, Horizontal Mask or Vertical Mask is selected)
 - The main menu will disappear after pressing the Mode Button ; Turn the Zoom Knob to adjust the width of the selected Line Marker/Mask; Press the Mode Button again to confirm and return to the main menu.
- f. Image in 180 Degrees Rotation. Short-press the Mode Button to flip the image in 180 degrees. To rotate the image back to the original position, press the Mode Button again.
- g. Exit: Short-press the Mode Button to exit the main

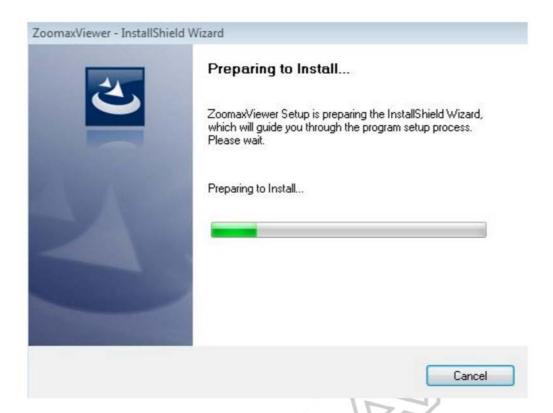
menu.

Please Note: If your Mars HD is connecting with PC, you can refer to the keyboard shortcuts to directly access functions of the device (See page 22).

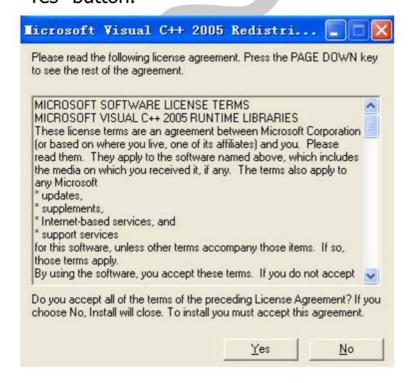
5. PC Software

5.1 Installation of software

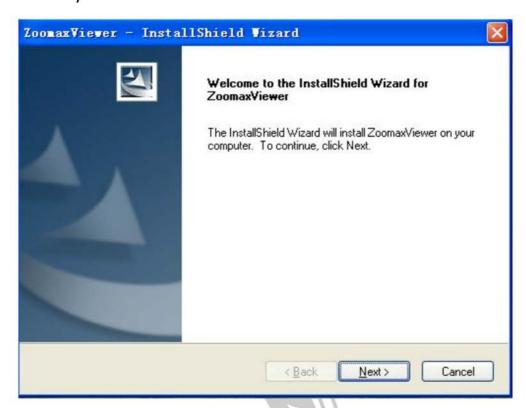
Start your PC normally. Insert the USB flash disk containing the software into one of the computer's USB ports. Start the installation by double clicking on the "ZoomaxViewer App" which is located in the "ZoomaxViewer-windows" folder. This will open the following window.



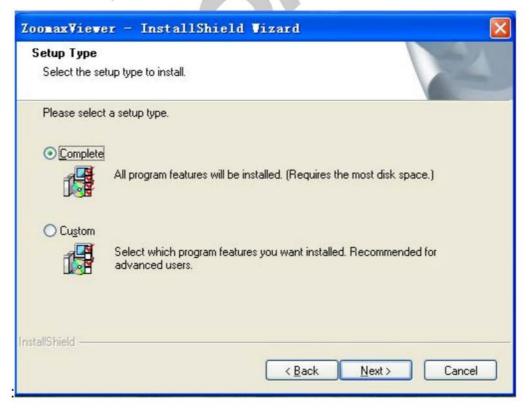
Once the Install Shield Wizard is finished, the following interface will appear. Read the text in the "License Agreement" dialog box, and accept the license agreement by clicking the "Yes" button.



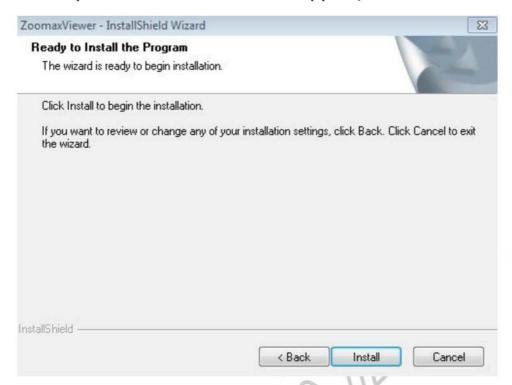
After clicking "Yes", the Install Shield Wizard will appear on the screen, then click "Next".



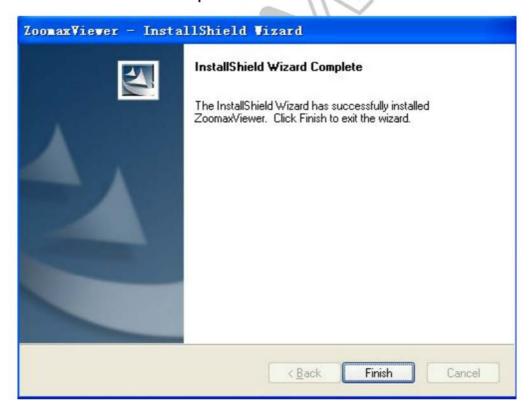
Click" Next",



A ready installation window will appear, then click "Install".

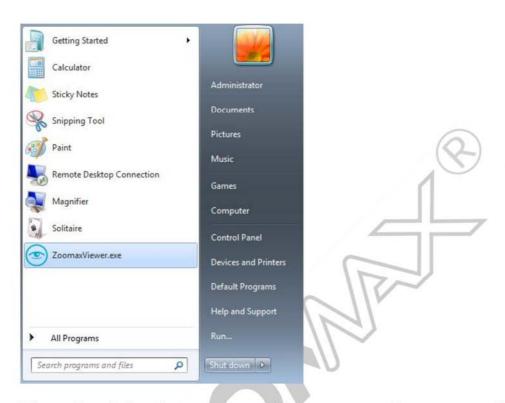


Click "Finish" to complete the installation.



5.2 Opening the Software

Click the "Start"—"All Program" —ZoomaxViewer.exe.



Then the following screen will appear on the screen. It means your software is successfully installed.



5.3 Powering on the Mars HD on PC

Start up your PC as normal. Plug one end of the USB cable into your PC and the opposite end into your Mars HD. Power on the unit and open the installed PC software, after that, you can operate it completely for your requirement.

NOTE: Be sure to open the installed PC software after you have powered on your Mars HD. Operating in the wrong order may result in connection failure.

5.4 PC Keyboard Shortcuts

Functions	Keyboards	Descriptions
Show All Shortcuts	F1	
Selection	Enter	
Zoom in	1	
Zoom out	↓	
Freeze	F	
Focus Lock	К	
Contrast Mode	М	Press the key repeatedly to cycle between the full color mode and the four preset color modes.
Advanced Color Mode	Shift + M	Press "Shift + M" to display 16 available color modes and press "↑ ↓ → ←" to navigate; Press "Enter" to confirm the selected color mode, and deselect by pressing it again; Any four types can be chosen before exiting the menu.
Split Screen	Н	Split screen on the left/right/top/ bottom of PC and full screen will be displayed in turn.
LED On/Off	L	
Find	Space Bar	Press and hold the key to enable this function
Image Rotation	R	Rotate current image 180°
Save Image	S	The function is available only when the Freeze Mode is activated
Play Back	Р	Open the directory in the dialog box, select the image to view via Mouse/Trackpad.
Brightness Adjustment	./,	Press "." to increase and "," to decrease the brightness.
Line Marker/ Mask	F3	Horizontal Line, Dual Horizontal Lines, Vertical Line, Dual Vertical Lines, Horizontal mask, Vertical mask, No line marker or mask. All options will be shown in turn accordingly.
Line Marker/Mask Position	Shift+"↑↓ → ←"	Adjust the position of Line Marker/Mask
Line Marker/Mask Width	Shift+"."/ Shift+","	Adjust the spacing of Dual horizontal Lines, Dual vertical Lines, Horizontal Mask, Vertical Mask

6. Mac Software

6.1 Preconditions to install the software

Before installing Mars HD software on your Mac, you should first change your system security settings. Access the "System Preferences", and then click the "Security & Privacy" icon. (See Figure 6)

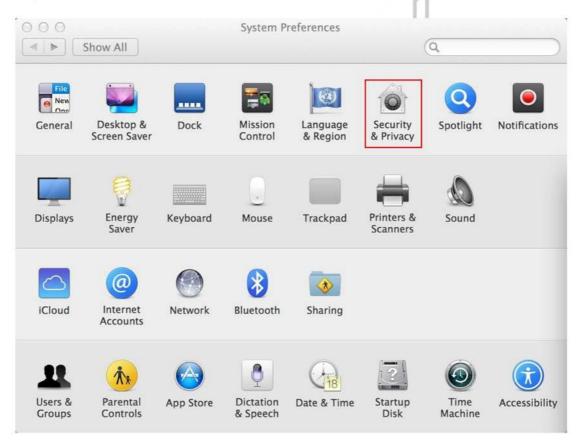


Figure 6

Tell your system to "Allow apps downloaded from anywhere". (See Figure 7)

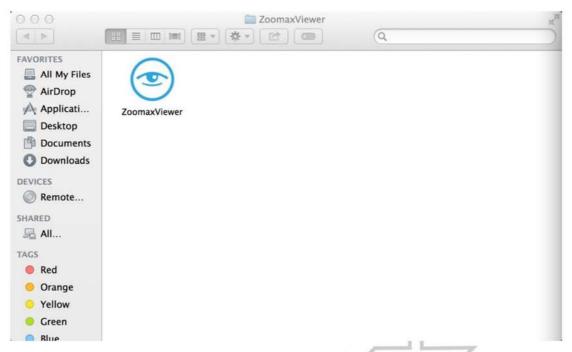


Figure 7

NOTE: You may be unable to install the software if you do not change your system security settings first.

6.2 Installation of software

To install Mars HD on your Mac, insert the USB flash disk containing the software into one of your Mac's USB ports. Drag the "ZoomaxViewer" ZIP file which can be found in the "ZoomaxViewer-MAC" folder to your destination folder. Your Mac should extract the ZIP file after clicking on it. Double-click the extracted file and this will open the following window.



To run the App, double-click the blue icon. Then the following screen will appear. It means your software is installed successfully.



6.3 Powering on the Mars HD on Mac

Start up your Mac normally. Plug one end of the USB cable into your Mac and the opposite end into your Mars HD. Power on the unit and open the installed Mac software. Then you can focus on the ease of use, and functionality available.

NOTE: Be sure to open the installed Mac software after you have powered on your Mars HD. Operating in the wrong order may result in connection failure.

6.4 Mac Keyboard Shortcuts

Functions	Keyboard	Descriptions
List all available	F2	
shortcuts	Γ2	
Full screen	Command+F	
Zoom in	↑	
Zoom out	\rightarrow	
Freeze	F	
Focus Lock	K	
Color Mode	М	Press this key to toggle between the full color mode and the four preset color modes.
Advanced Color mode	Shift+M	Press "Shift+M" to display 16 available color modes; Press "Command+↑↓→←" to navigate and "Command+Enter" to select/deselect your favorite color modes; If you need to exit, choose any four types, then it will exit automatically.
Split screen	н	Split screen on the left/right/ bottom/top of PC and full screen will be displayed in turn.
LED On/Off	L	
Find	Space bar	Press and hold the key to enable this function
Image Rotate	R	Rotate current image 180°
Save image	S	The function is available only when the Freeze Mode is activated.
Play Back	Р	Open the directory in the dialog box, and select the image to view via Mouse/Trackpad.
Brightness Adjustment	.J,	Press "." to increase and "," to decrease the brightness.
Line/Mask	F3	Horizontal line /Dual horizontal lines/Vertical line /Dual vertical lines/Horizontal mask/Vertical mask/No line marker or mask. All options will be shown in sequence accordingly.
Line/Mask position	Shift+"↑↓→←"	Adjust the position of Line Marker/Mask
Line/Mask width	Shift+"."/ Shift+","	Adjust the spacing of Dual horizontal lines/Dual vertical lines/Horizontal mask/Vertical mask.

7. Troubleshooting

No power to the unit

- When you press and hold the Power Button, but the Indicator Light is not on, please use the Power Adapter to charge the battery.
- When the Power Adapter is connected, but the battery is not charging, please make sure that the outlet has power and the plug is fully inserted into the power socket.

USB failed connection

If the Mars HD is connected to your PC/Mac through the USB cable and the PC/Mac software is already opened, but there is no image on the screen, please check whether you have connected the unit with your PC/Mac in the right order. (Refer back to page 24 for PC and page 27 for Mac if you are not sure how to do this)

Image on screen is not clear

- Clean the screen and/or camera lens with a cleaning cloth.
- Try moving your Mars HD to a more shaded area if there are shadows on the image.
- Adjust the distance of the Mars HD from your reading material as needed to improve the image quality.

- Try selecting different color modes to improve image quality.
 None of the above
- If your problems are not listed above, please contact your local distributors.

8. Technical Specifications

- Camera: Auto focus 12x, Resolution: 1280 x 720p
- Magnification: 2x to 80x (based on 14" screen)
- 3 viewing modes: Reading-viewing/Distance-viewing/
 Self-viewing
- Color Modes: 16 high contrast color modes, and 5 favorite colors (including Full Color)
- Functions: Brightness Adjustment; Freeze Function; Focus Lock; Split Screen; Find Function; Image Rotation; Image Saving (computer connection only); Line Marker/Mask; Color Select Mode
- HDMI and DVI connectivity for laptop, desktop and TV monitor
- System Requirements PC: Windows XP or later, MAC: MAC
 OSX 10.6 or later
- Rechargeable Li battery: around 4 hours continuous use¹
- Charging Hour: around 3 hours

• Weight: less than 0.9kg

¹ All times listed are approximate. Actual Charging and Usage times will vary depending on the life cycle remaining on the batteries, type and current rating of batteries used, LCD brightness setting, LED Mode as well as other environmental factors such as temperature and moisture.

9. Other Products from ZOOMAX

Snow 7"		Snow 7 HD is a creative design that offers real-time crisp images on the ergonomically settled wide screen, and is still the easiest to use. With its small book size and only 16.93 ounce, Snow 7 HD can be taken and used to read closely and see at a distance anywhere, home, school, office, bus stop, shop, etc.
Snow 4.3"	+	Snow is given the most advanced image technology and best camera. It offers sharp image even at the lowest magnification and under the fast movement. No learning but easy to use skillfully at the very beginning with the large button. You can read and write even when you are travelling.
Butterfly 3.5"	Rate Park	Pocket-size video magnifier, Butterfly is designed for people's outdoor use. Because of its lightest weight and most compact size, Butterfly can be hung around the neck or kept in the pocket, handbag or even purse. You may use it to read price label, menu and see things around you anytime conveniently.
Aurora HD	Totals take of the control of the co	Aurora HD is a new foldable desk video magnifier which integrates the advanced camera technology. It cares for your distinct operation needs at different operating levels. It offers you comfortable image, less for eye strain. There are basic and advanced operation modes for your choice.
Panda	No No in- B	Panda is a really easy to use electronic magnifier with clear & large image, full page magnification, and right size with low cost. Panda has no redundant decoration, but simple & convenient. It is more desirable to view pictures or read documents in full page at apartment or in the office.



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