M5 HD Plus

5″ Handheld Video Magnifier

User's Guide

Version 1.4

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To contact by e-mail, send questions to sales@zoomax.com. To search the knowledge base, please visit www.zoomax.com and select the relevant links.

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1. Introduction

Congratulations on the purchase of your new M5 HD Plus. Please read this user's guide carefully before using. This guide will help you to better understand the M5 HD Plus' features and allow you to get the full benefit of your M5 HD Plus video magnifier.

The M5 HD Plus is a handheld electronic magnifier presenting crystal-clear image on a large 5″ wide screen LCD display. Besides, it is equipped with a simple and easy to use touch screen interface. The touch screen provides a crisp clear image that makes it easier than ever to read newspapers, price tags and magazines or view

your favorite photos. The advanced, ergonomic and easy-to-use features of M5 HD Plus make your daily reading easier than ever before.

➢ About this User's Guide

We constantly seek to improve our products and their performance. To get the latest version of user's guide, please download it in the Support section at www.zoomax.com.

If you have any questions after reading this guide, please contact your supplier for further assistance.

2. Safety and Maintenance

To keep your M5 HD Plus video magnifier in optimal condition, please read the following safety guidelines carefully:

▶To avoid risk of electrical damage, keep your M5 HD Plus away from fluids and chemicals.

▶To avoid the risk of electrical shock, please do not attempt to disassemble the unit. Please refer all services to an authorized repair facility.

▶Do not expose your M5 HD Plus to excessive heat or direct sunlight to avoid the risk of fire.

▶Always unplug the M5 HD Plus before cleaning. Use the cleaning cloth or a soft damp cloth to clean the exterior. Do not use cleaning agents or abrasive materials, as they will damage your video magnifier.

▶Please note: The use of a screen protector might influence the functioning of the touch screen.

3. Accessories

You will find the following accessories inside the M5 HD Plus package box:

- HDMI cable
- Power adapter
- User's guide
- Cleaning cloth
- Wrist strap
- Carrying case
- Handle

If any items are missing from your package, please contact your distributor.

4. Setting Up Your M5 HD Plus

4.1 Getting to know your M5 HD Plus

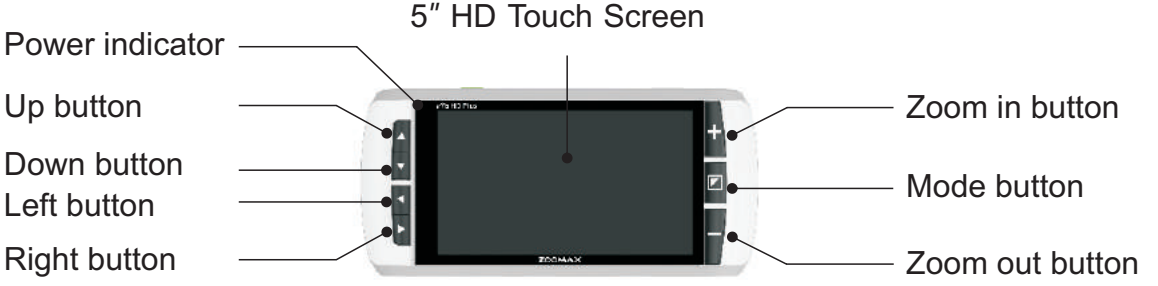

Figure 1: Front view

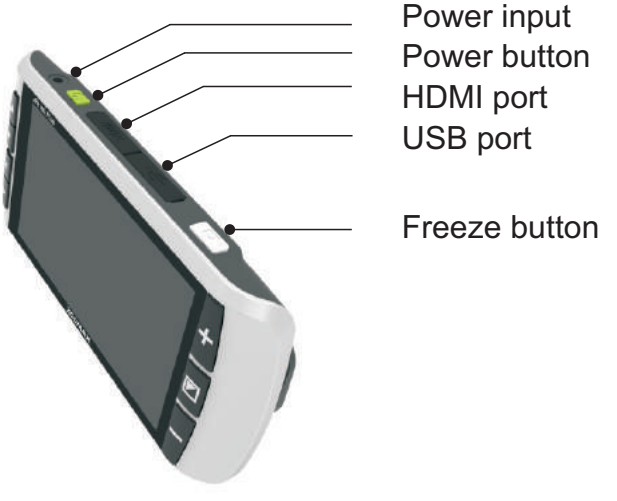

Figure 2: Side view

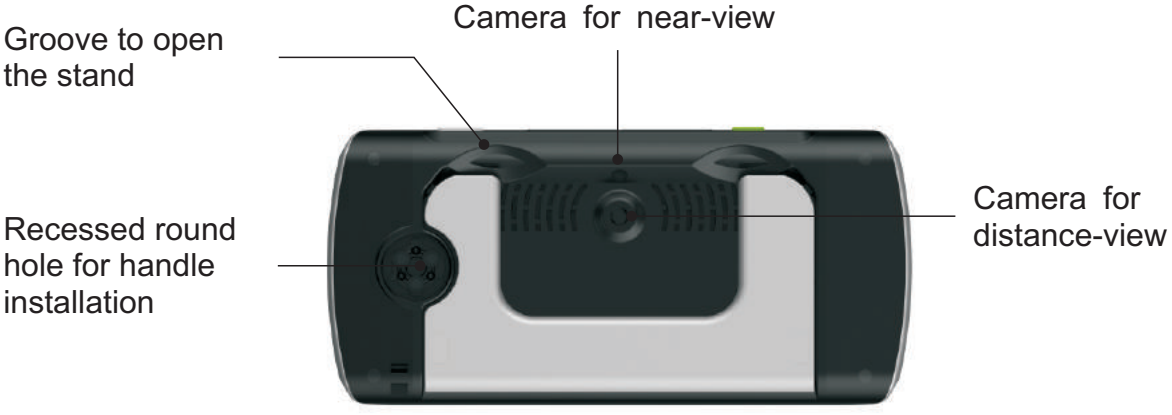

Figure 3: Back view

1) M5 HD Plus is equipped with dual cameras: camera for near-view and camera for distance-view. Each camera works separately and specifically for different viewing modes.

2) The two grooves are designed to help you open the reading stand easily.

3) At the left side, you will see a recessed round hole which is for handle installation.

4) The reading stand is designed for near-view mode when opened.

4.2 Reading position

The M5 HD Plus can be used in two ways: use with stand opened and with stand closed.

Figure 4

Figure 5

1) The M5 HD Plus with stand closed (refer to Figure 4) is ideal for distant viewing. Close the reading stand and hold the M5 HD Plus up to view objects or texts at a distance (refer to Figure 5).

Figure 6

Figure 7

2) The M5 HD Plus with stand opened (refer to Figure 6) is for near viewing. Pull the stand out to open the reading stand and the screen will be set in an ergonomic angle. Place your M5 HD Plus on reading material and start reading (refer to Figure 7).

4.3 Battery Display and Charging

1) Battery Display

The battery icon will be displayed at the bottom left corner of the screen when the M5 HD Plus is powered on. After 5 seconds it will disappear automatically. When battery level drops to 5%, the M5 HD Plus will alert you with a warning beep and a low battery icon will appear on the screen.

2) Battery Charging

The M5 HD Plus is equipped with a built-in battery. To charge the battery, simply plug the supplied power adapter into an available power outlet and connect to your device.

Please note that the power indicator is RED while charging. The indicator will go OFF when battery gets fully charged. It takes approximately 4.5 hours to fully charge. Your M5 HD Plus can be continuously used up to about 4 hours after fully charged.

NOTE:

1) Charge the magnifier in a well ventilated environment. Remove M5 HD Plus from its carrying case when charging. Don't place it in direct sunlight or near anything hot while charging.

2) In order to guarantee and extend the life time of the battery, please charge the battery only when the battery low icon displays on the screen. And, please make sure the battery is fully charged and discharged each time.

5. General Guidelines for User

1) Please charge the battery before your first use of M5 HD Plus.

2) Always use the power supply provided in your package. Do not use any other power supplies. Other charger may harm the unit and void the warranty.

3) Always turn OFF the M5 HD Plus when the device is not in use.

4) Use the M5 HD Plus in environments where the temperature is between 10°C and 40°C (50 and 104F).

6. How to Use Your M5 HD Plus

6.1 Basic Operation

6.1.1 Power On/Off

1) To turn on your M5 HD Plus, press and hold the Power button for 3 seconds while the power indicator turns GREEN. The device will turn on after a beep sound.

2) To turn off your M5 HD Plus, press and hold the Power button for 3 seconds and you will see the power indicator goes off.

6.1.2 Near/Distance-View Function

The M5 HD Plus will automatically switch between near and distance view when opening or closing the stand.

1) Open the stand to change to near-view mode. The camera will automatically switch to fixed focus, and the LED light will turn on.

2) Close the stand to switch to distance-view mode. While in distance-view mode, (the camera is tap-to-focus.) use one finger to tap the screen where you want to focus. M5 HD Plus will focus on the items you choose.

6.1.3 Zoom Control

Press the ″+″ button to zoom in and press the ″-″ button to zoom out. The magnification range of the M5 HD Plus is from 2.3X to 16X.

Lifting your M5 HD Plus from the reading material while in distance-view mode will decrease the magnification. Connecting the unit to a TV or monitor will increase the magnification.

6.1.4 Select Color Mode

➢ Normal Color Mode

In normal color mode, short press the Mode button to cycle through the following 11 color modes and choose the color you prefer.

- Full color
- High contrast white text on black background mode
- High contrast black text on white background mode
- High contrast white text on blue background mode
- High contrast blue text on white background mode
- High contrast yellow text on black background mode
- High contrast black text on yellow background mode

- High contrast blue text on yellow background mode
- High contrast yellow text on blue background mode
- High contrast green text on black background mode
- High contrast black text on green background mode

➢ Favorite Color Mode

To enter into favorite color mode, firstly choose your favorite contrast color in normal mode, then press and hold the Mode button for 3 seconds until you hear a BEEP.

In this mode, press the Mode button to cycle through 3 basic modes: full color, your favorite contrast color and its reverse color (such as white on blue & blue on white).

To exit Favorite color mode, press and hold the Mode button for 3 seconds until your hear a BEEP.

NOTE:
1) Notice that the M5 HD Plus cannot enter into Favorite mode in full color.

2) When trying to enter into Favorite mode, the beep sound will always ON, no matter the system sound is on or off (refer to following Sound On/Off operation on page 29).

6.1.5 Freeze Function

➢ Freeze Photo

In distance-view mode, after camera focused (focused by taping the screen), short press the Freeze button to freeze a real-time image; in near-view mode, the camera is fixed focus, short press the Freeze button to freeze a real-time image.

➢ View Frozen Photo

After freezing a photo, press the "+" button to zoom in and press the "-" to zoom out.

When the photo has been zoomed in, press the four arrow buttons " ▲▼◀▶ " on the left side or use one finger to press & hold on the touch screen and pan to view detailed parts of the photo.

Short press the Mode button to change the color mode.

Press the Freeze button to exit and revert to real-time viewing mode.

6.1.6 Reading line and Masks

Under real-time viewing mode, short press the "+" and "-" simultaneously to cycle through 4 electric curtain options: reading line (horizontal/vertical), reading mask (horizontal/vertical).

- Horizontal Reading Line

To move the horizontal reading line, press "▲" or "▼" to your desired position.

- Vertical Reading Line

To move the vertical reading line, press "◀" or "▶" to your desired position.

➢ Horizontal Reading Mask

To adjust the width of a the horizontal reading mask, press "▲" or "▼" to desired width.

➢ Vertical Reading Mask

To adjust the width of a the vertical reading mask, press "◄" or "►" to desired width.

6. 2 Advanced Operation

6. 2.1 Save/Delete Photo

➢ Save Photos

When a photo is frozen, press Freeze button and Zoom in button "+" simultaneously for 3 seconds, a tick icon ✓ will appear on the screen indicating the photo has been saved.

When the storage space is full and additional photos cannot be saved, the screen will display "Memory is full". If you want to save the frozen photo, delete the previous photos first (please refer to following Delete Photo part on page 27).

Your M5 HD Plus can store up to 60 photos.

➢ Choose and View Saved Photos

Long press the Freeze button for 3 seconds, photo index display (sets of 4 saved photos) will appear. The saved photos will be displayed in inverted order with correspondent numbers marked, e.g. total 24 photos saved, the photos will be displayed from No.24 to No.1. No. 24 is the photo saved latest, i.e. the last photo you saved will appear first with a yellow number marked.

Press "+" button or "-" button to browse through your photos and then press Mode button to choose the photo you want to view.

Under the lowest magnification, press "◀" or "▶" to view the previous or next photo.

Short-press the Freeze button to return to photo index display.

Short press the Freeze button again to revert to real-time viewing mode.

➢ Delete Photo

When viewing a saved photo, press and hold Mode button for 5 seconds, it will be deleted automatically and the screen will display a trash icon 🗑. And then it will switch to the next photo. If you delete the only remaining photo, the screen will display "no picture saved". Press the freeze button to real-time viewing mode.

6. 2.2 Menu mode (LED On/Off, Sound On/Off, Frame Rate Setting, Brightness Adjustment)

Long press "+" button and "-" button simultaneously for 3 seconds to enter into menu mode: LED light , sound , frame rate 60HZ, and screen brightness setting.

1) LED On/Off

Press "+" button or "-" button to cycle through the four icons and choose LED icon " ", press Mode button to turn the LED lights ON or OFF. By default, the LED lights are ON in near-view and OFF in distance-view mode.

After finishing the setting, press the Freeze button to revert to real-time viewing mode.

2) Sound On/Off

Press "+" button or "-" button to cycle through the four icons and choose the sound icon " ", press Mode button to turn the sound ON or OFF. By default, the sound is turned on.

After finishing the setting, press the Freeze button to revert to real-time viewing mode.

3) Frame Rate Setting

Press "+" button or "-" button to cycle through the four icons and choose frame rate icon "60Hz", press Mode button to choose 50 Hz or 60 Hz. The default rate is 60 Hz.

After finishing the setting, press the Freeze button to revert to real-time viewing mode.

4) Brightness Adjustment

Press "+" button or "-" button to cycle through the four icons and choose the brightness icon , press Mode button. Its background will turn to real-time viewing mode, which indicates that brightness adjust function has been selected. Then press "+" button or "-" button to increase or decrease the brightness.

There are total 6 intensity settings: 5,4,3,2,1,0. By default, intensity level is set to 3.

After finishing the setting, press the Freeze button to revert to real-time viewing mode.

6.2.3 Connect to TV or Monitor

Use HDMI cable (included) to connect the magnifier to TV or monitor. Just plug one end of the HDMI cable into the HDMI port on your M5 HD Plus and the other end into any available HDMI port on your TV or monitor. Once connected, the M5 HD Plus screen will turn off automatically and enter into HDMI output mode.

NOTE:

Your M5 HD Plus can also be connected to TV and monitor that are not equipped with an HDMI port. Contact your local Zoomax distributor for more information about available adapters for connecting your M5 HD Plus to TV and monitor without HDMI port.

6.2.4 Power Saving Function

By default, your M5 HD Plus turns OFF automatically after 3 minutes of inactivity.

6.2.5 Memory Function

The current settings will be saved automatically when the M5 HD Plus turned off to facilitate the next use.
Only one exception should be noticed: the setting of LED light WON'T be memorized. By default, LED light is always ON in near-view mode and is always OFF in distance-view mode. If your preferences for the LED light differ from the default settings, please turn it on/off manually.

6.2.6 Demo Mode

At the LOWEST magnification setting, press and hold the "-" button for 5 seconds. The M5 HD Plus will enter into demo mode when a white rectangle icon appears at the bottom left corner of the screen after a beep sound. The magnifier will always be on, so you can enjoy extended periods of reading.

To exit, press and hold the "-" button for 5 seconds at the LOWEST magnification. The M5 HD Plus will exit demo mode with rectangle icon disappeared after a beep sound.

6.2.7 Factory Reset

Factory Settings:

- Screen brightness level is 3.
- Sound is on.
- Real time mode after turned on.
- Full color mode.
- Frame rate is 60Hz.

To reset to factory settings: at the HIGHEST magnification setting, press and hold the ″+″ button for 5 seconds. There will be a Factory Reset icon appeared and the magnifier will be powered off after 2 beep sounds. All settings will be reset to factory defaults when M5 HD Plus is turned on next time.

7. Troubleshooting

Problems	Solutions
Black screen	- Ensure that the power is on. - Charge the battery. - Decrease the magnification level.
The unit will not turn on.	- Charge the battery.
The image on the screen is dark or distorted.	- Ensure the unit is that on the viewed material.
Smudges or blemishes on the screen.	- Clean camera and screen with soft cloth.

Problems	Solutions
Text is too large to read.	- Adjust the magnification down to suitable level. - Lift/move the unit a little away from the viewed material.
The unit is connected to a TV, but no image appears on the TV screen.	- Ensure the TV is on. - Make sure the HDMI cable is connected correctly to TV.
The screen is frozen or distorted or any other problem occurs that is not mentioned in this manual.	- Press Power button and Zoom in button together to turn off forcedly. Then restart the unit.

8. Technical Specification

1) Magnification: 2.3X ~ 16X

2) Color modes: Full color and 10 high contrast color modes; 3 favorite modes, including full color

3) Screen: 5-inch TFT touch screen; screen resolution: 1280x720p

4) Camera: dual camera, 5 megapixels; auto focus / tap-to-focus under distance-view mode; fixed focus under near-view mode

5) Viewing distance: 4.8cm for near-view; >5cm for distance-view

6) Connection to TV / Monitor through HDMI cable

8) Power adapter:
Input: 100 ~ 240V
Output: 5V/2.5A

9) Continuous use: (Fully charged battery) approximately 4 hours battery life (depending on Mode and Brightness level settings)

10) Charging time: approximately 4.5 hours

11) Total weight: approximately 265 g (9.35oz)

12) Dimensions:173mm(L)∗80mm(W)∗20mm(D) (5″)

9. Other Products from ZOOMAX

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.
Snow 7HD 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.

Aurora HD		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 HD		Zoomax Panda HD with the high specification and compact design offers the most attractive advantages of a full desktop electronic magnifier,crisp image in high definition, intuitive use, space-saving and movable screen design.

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Zoom Your Vision, Max Your Life