# Patriot 5 EZ
# User Manual

**Ver 1.1**

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**Welcome**

Congratulations on your purchase of the Patriot 5 EZ Digital Magnifier. A powerful electronic magnifier that is easy to use so that you can maintain a high-quality life and greater independence.

Please read this manual carefully and keep it for reference.

**Product Features**

This Full HD 5.0 Patriot 5 EZ portable digital video magnifier is the most powerful and easy to use digital magnifier at an affordable price.

- 5 inch large anti-glare screen, 800*480 resolution, high definition screen.
- Auto focus design, full depth of field coverage from 5cm to 15cm.
- Custom-made quality lens, large filed of view and extended depth of field.
- No lag & fluent HD.
- Professional image processing DSP to restore colors and enhanced image.
- 2X-32X variable amplification.
- Two-color button, high contrast, tactile touch.

- Fold out stand for angle viewing and rotatable handle.
- Handle can be relocated for left handed users.
- Multiple color modes.
- Color mode customization capable.
- Picture freeze feature.
- Large icon user interface.
- Backlight adjustable, White LED light brightness adjustable, suitable for reading all materials.
- Memory function will automatically save the last settings.
- HDMI 1080i60 output to HD TV.
- TYPE-C USB interface.
- High capacity re-chargeable battery, 4 hours runtime.
- Intelligent power-saving design. Automatic shut-down after the screen dormant for 3 minutes.

## Packaging & Accessories

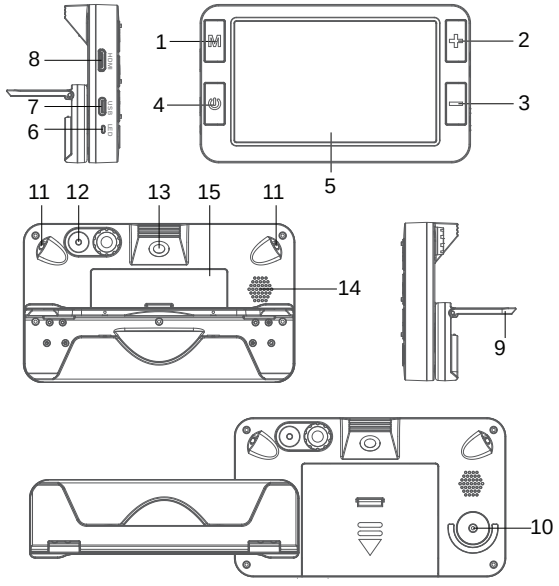
| | | | |
|---|---|---|---|
| ●Digital video magnifier | 1PC | ●User Manual | 1PC |
| ●HDMI cable | 1PC | ●Protective bag | 1PC |
| ●USB charging cable | 1PC | ●Cleaning cloth | 1PC |
| ●Power adapter | 1PC | | |

## Technical Specifications

●Screen size: 5.0 HD colorful LCD screen(800*480);
●Pixel size: 8 mega pixels;
●Zoom rate: 2X to 32X variable;
●Color mode: 26 combinations available;
●Auto focus: 5cm ~ 15cm;
●White LED adjustment;
●Brightness adjustment;
●Memory function;
●Image freeze;
●TV output: HDMI 1080i60;
●Handle bracket: foldable and rotatable;
●Handle detachable: can be used for left and right hand users;

●Working hours: last for over 4 hours;
●Battery capacity: 2500mAH high-capacity re-chargeable lithium battery, user removable;
●Device dimension: 145mm(length)x 84mm(width)x 28mm(height);
●Device weight: 225g(Battery excluded);

## Product Illustration

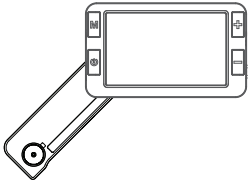


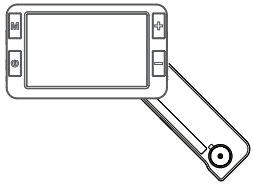

1. Mode button **M**
2. Zoom in button **+**
3. Zoom out button **−**
4. Power on button ⏻
5. LCD
6. Indicator light(power/charging)
7. TYPE-C USB interface
8. HDMI-C interface
9. Handle bracket
10. Left handed mount
11. Near focus White LED
12. Flashlight light
13. Near focus lens
14. Speaker
15. Battery cover

## How to Use

### 1. Relocate handle Option (LEFT HANDED USERS ONLY)

Handle may be mounted on the opposite side for left handed use.

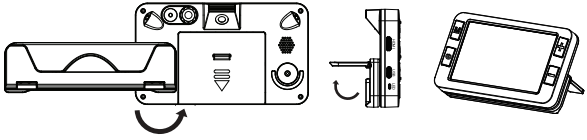




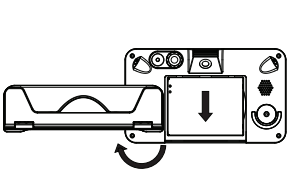
Left hand use

Right hand use

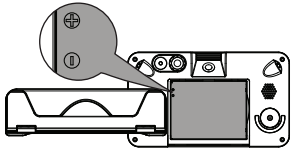
1.Loosen the handle screw and remove the handle
2.Take out the rotating shaft and the rotating shaft cover, and exchange the two positions;
3.Open the handle, remove the handle limit pin and install it on the other side;
4.Close the handle and tighten the screw;
5.Insert the handle to the rotating shaft and tighten the screws;



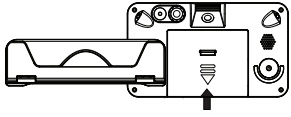
**2.Install battery**



Rotate handle out of way



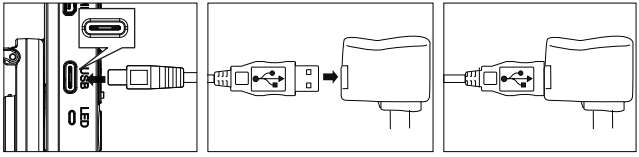
Install battery



Close the battery cover

1.Invert Patriot 5 EZ, rotate handle out of the way from battery compartment;
2.Press the battery cover compartment and slide the battery cover off. (down);
3.Install the battery according to the positive and negative tips;
4.Cover the battery compartment, push up and slide into place. You will hearing the "click" sound;

### 3.Battery charging




Connecting to video magnifier

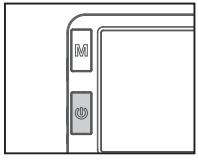
Connecting to adapter

Connecting to AC power

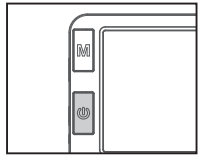
1.Connecting Patriot 5 EZ to adapter by USB cable;
2.Connecting adapter to AC power;
3.Charging light( red light) is on when charging;
4.Charging light(red light) will be off when completely charged;
5.Please charge the battery to 100% before using the Patriot 5 EZ for the first time;
6.When low battery signals, please charge the battery;

**Attention:** When charging, please make sure the charger and the Patriot 5 EZ are in a well vented area.

### 4.Power on / off




To power on, Long press bottom left power button to switch on




To power off, Long press bottom left power button to switch off

## Using Patriot 5 EZ

1. Long press bottom left power on button ⏻ , Patriot 5 EZ will turn on, the green indicator lights up, ready to use;
2. Aim Patriot 5 EZ toward the reading material to magnify;
3. Optimal reading can be attained through adjusting magnifying power and colors;
4. Long press power on button ⏻ and Patriot 5 EZ will power off.

**Attention**: For best results, remove the protective film from the screen and/or the lens, if covered, before use.

### 5.Four Buttons explained:

Color mode switch: Press Mode button **M** to switch color mode;
Zoom in and out: Press Zoom in button **+** to enlarge image and press Zoom out button **—** to shrink image;
Freeze and unfreeze image: Short press Power button ⏻ to freeze image and short press Power button ⏻ again to unfreeze image;
System menu setting: Long press mode button **M** to enter setting menu to change or customize user settings.(see next page)

## Functions Introduction

### 1.Color mode switch

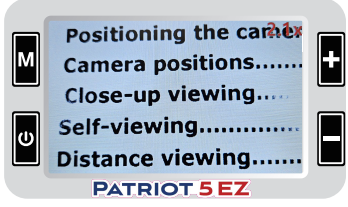
You may cycle different color modes by pressing the Mode button **M**
There are 26 different mode;

| | | |
|---|---|---|
| 1)Color mode | 10)Black on yellow | 19)Orange on black |
| 2)Color enhancement mode | 11)Yellow on blue | 20)Black on orange |
| 3)Negative mode | 12)Blue on yellow | 21)Yellow on green |
| 4)Monochrome mode | 13)Green on white | 22)Green on yellow |
| 5)Black on white | 14)White on green | 23)Red on white |
| 6)White on black | 15)Orange on white | 24)White on red |
| 7)Blue on white | 16)White on orange | 25)Yellow on white |
| 8)White on blue | 17)Red on black | 26)White on yellow |
| 9)Yellow on black | 18)Black on red | |

The desired color mode(s) can be customized. See page 19;

### 2.Zoom rate adjustment

2X Magnification Illustrated



16X Magnification Illustrated

32X Magnification Illustrated

Zoom in + or zoom out − can adjust zoom rate to achieve the best magnifying effect;
Patriot 5 EZ can zoom in or zoom out variably between 2X～32X.

3.Image freeze and unfreeze

Freeze image viewing

Viewing image after freezing

Short press Power button ⏻ can freeze image and can observe the image at close distance,

Short press Power button ⏻ again to unfreeze image and return to real-time view.

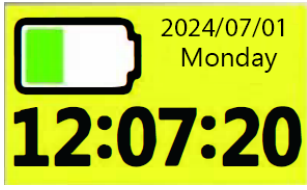
4.Memory function for settings.

After turning off, Patriot 5 EZ will remember your setting.

**5.Power saving**

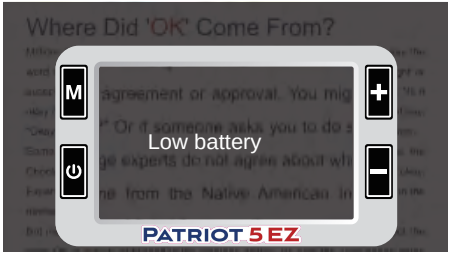
Patriot 5 EZ has a power saving function. When left idle, for more then one minute, it will enter sleep mode.

You will see this screen




Under sleep mode, press any key to wake up Patriot 5 EZ. If left idle for three minutes, it will shut down automatically to save power.

**6.Low battery tips**



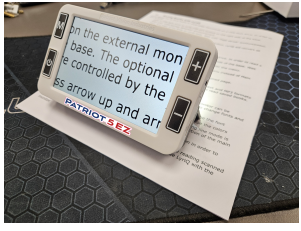
Low battery function: Screen will display the low power icon at low battery, and the power light flashes.

When low battery occurs, please charge the battery.

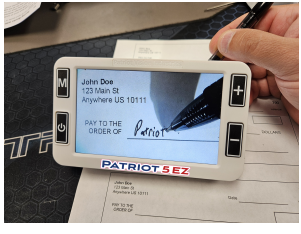
**7. Handwriting**

Patriot 5 EZ supports handwriting. Rotate handle, open the bracket support to incline the stand,and keep the magnifier upright to write;

Reading on incline stand bracket



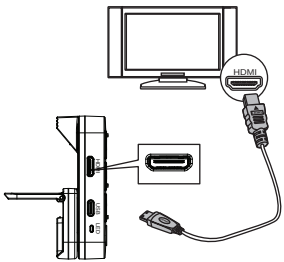

Writing on incline stand bracket




The incline stand bracket makes Patriot 5 EZ into a stand magnifier that can be slid across the page.

You may want to rotate Patriot 5 EZ 180 degrees for left handed writing.

**8.HDMI connecting to TV**




HDMI connecting to TV

If you want to connect Patriot 5 EZ to the TV by HDMI cable, please use the provided cable.
When Patriot 5 EZ enters the HDMI output mode, the Patriot 5 EZ screen will turn off automatically.

## System Menu Guide

When the **M** (mode) button is pressed on the Patriot 5 EZ, it will show the MENU screen.

| Operation/Pressing button | | POWER button ⏻ | M button M | Zoom-in button + | Zoom-out button − |
|---|---|---|---|---|---|
| VIEW | Short press | Freeze/Unfreeze | Color mode switch | Single time zoom-in | Single time zoom-out |
| | Long press | Power on/off | Enter into Menu | Continuous zoom-in | Continuous zoom-out |
| MENU | Short press | Confirm | Next Menu | Previous option | Next option |
| | Long press | Power on/off | Exit Menu | / | / |

Note: Access to MENU screen to change options is by long pressing M (mode) button. zoom in button + and zoom out button − can adjust between 1 ~ 5 levels.

●LCD brightness adjustment

Brightness 1

Brightness 3

Brightness 5

● LED Light brightness adjustment

Turn off LED Light | Brightness 1 | Brightness 3 | Brightness 5

As shown above, zoom in button + and zoom out button − can adjust between 1 ~ 5 levels.

Attention： Level 0 will disable the LED light. This is mainly for reading mobile phones or laminated glossy surfaces to eliminate the glare.

●Beep volume adjustment

Turn off beep | Volume1 | Volume3 | Volume5

As shown above, zoom in button + and zoom out button − can adjust between 1 ~ 5 levels.

●Date and time setting

Year setting

Month setting

Date setting

Hour setting

Minute setting

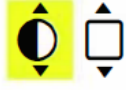
Second setting

As shown above, zoom in button ✚ and zoom out button ━ can adjust value.Short press ⏻ button to move setting option.

●Color mode setting

Color mode

Open black on white mode



Turn off black on white mode

As shown above, zoom in button ✚ and zoom out button ━ can switch.Short press ⏻ button to turn on or turn off mode;
Only the selected mode will be used in the mode switch; the unselected mode will be skipped in the mode switch.

Attention：Color mode cannot be turned off.

●Battery power display

Low power, to be off.

Low power

Half power

Full power

As shown above, battery power will be displayed as a percentage.

●Version information display

Version information

As shown above, the version information menu displays the product model, firmware version number, and firmware compilation time.

## Precautions

In order to keep your Patriot 5 EZ in the best condition, please read the following notes carefully:

- Please do not expose it directly to high temperatures or sunlight;
- Please keep it away from moisture, rain, liquids and chemicals;
- Please do not use it near to electronic equipments, and medical equipments, which are not under insufficient shield;
- Please ensure that using it at temperatures between 10 ° C and 40 ° C;
- Please ensure that it is stored at temperatures between -20 °C and 65 ° C;
- Do not try to repair or open the unit to avoid voiding warranty;
- Please use the provided power supply and battery, otherwise unit will be subject to failing/malfunctioning;
- Use soft cloth to clean it, alcohol solvents or any other cleaners cannot be used.

**Warning:**
Do not use Patriot 5 EZ while charging!

## Troubleshooting

| Problem | Solutions |
|---|---|
| Black screen | Long press power button to power on;<br>Battery without power, charge battery;<br>Make sure the unit focuses on the reading materials; |
| Can not power on | Battery without power, charge it; |
| No sound | Make sure if the volume is at 1 to 5 in the menu setting; |
| Patriot 5 EZ focus is blurred | Make sure the environment is not dark; |
| Image is too dark or too bright | Make sure the lens is properly focus on the reading; |
| Image is blurred | Wipe the screen and lens; |
| Reading text is too small | Adjust zoom rate by pressing the zoom in button; |
| Connected to the TV, but the TV is not shown | Make sure the TV is on;<br>When use HDMI cable, switch the TV input to HDMI input; |

For more information regarding this Patriot 5 EZ Handheld/Stand Smart Magnifier or any of our other Patriot brand of innovative low vision products, we invite you to visit us at:

Website: www.patriotvision.com

For question or support, please contact us at:
800-364-1608 / 352-203-4164
Fax: 352-203-4617
Email: info@patriotvision.com

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