

## PATRIOT 5FHD Handheld/Stand Smart Magnifier

Welcome	3
Product Features	3-4
Packaging and What's Included	5
Specifications	5-6
Product Illustration	7
Customizing handle for Left Handed Users (if preferred)	8
Using a TF/SD memory card for expanding storage	9
Installing Battery	9
Battery Charging	10
Powering On/Off	11
Controls described	11
Color Modes	12
Zoom Magnifying Function	13
Switching between Near and Far View	14
AutoFocus Control	
Image Freezing and Unfreezing	16
Reading Line Enabling	17
Storage and Retrieving	18-19
Internal Storage Information	20
Voice Memo Recording	21
Flashlight Use	
Memory and Power Saving Feature	
,	

Low battery tips23
Handwriting with unit
Connecting to TV
Connecting to computer
Menu Functions
LCD brightness adjustment
LED light adjustment
Beep and volume adjustment
Date/Time/Color adjustment
Playback Menu
Delete current voice memo
Delete all voice memos
Delete current voice memo29
Delete current photo
Delete all photos
Format disk
Information Menu
Battery power display31
File information display31
Disk information display31
Version information display32
Computer configuration requirements32
Precautions
Trouble Shooting34

#### Welcome

#### Product Features

Congratulations on your purchase of the Patriot 5FHD, a digital HANDHELD/STAND SMART MAGNIFIER. Its revolutionary design will assist you in achieving greater independence.

The Patriot 5FHD Smart Magnifier represents the highest performance/best value due to its unique special distance capability combined with near functionality. It is smart because unlike ordinary standard magnifiers it can enhance the contrast for viewing AND magnify more powerfully onto its oblong shaped and generous sized screen!

- 5.0" large anti-glare screen, high definition.
- Dual SONY image sensors for far and near clear, true color.
- Dual auto focus design, full depth of field coverage from 2"to distance at infinity.
- Custom-made high quality optics, wide angle and extended depth of field, allows for more text and comfort.
- 1080P30 (far lens), 720P60 (near lens) design, no lag, no smear, no blur, a fluent FHD/HD view.
- Professional image processing DSP to restore colors and details.
- Supports take photos and playback function, HD storage and playback of scenery and text.
- 2X-32X variable magnification, 2X smart zoom improves effective pixels and definition.
- Control buttons are big, high contrast, tactile and marked.

- With foldable bracket design, the screen is at an angle of 40 degrees to the user, comfortable reading, smooth handwriting.
- Rotatable handle design for better handling.
- Handle may be detached and transferred to left side for further customization.
- 26 color modes, customizable.
- Picture freeze capability for added benefit.
- Image zoom panning function. Image zoom can be moved up and down (above 4X).
- Supports reading line function if desired.
- Voice prompts announcement capable.
- Voice memo is available for archived picture content by voice.
- Vibration feature function or silent operation.
- Large icon user interface, clear and concise.
- Backlight adjustable, adjustable LED light settings. May be disabled for reading reflective surfaces such as mobile phone, tablet, glossy and laminated materials.
- SD/TF card storage card can expand storage capacity.
- Memory function can automatically save the user's settings preferences.
- AV jack for optional connecting to external HD monitor/TV

#### Patriot 5FHD Handheld/Stand Smart Magnifier

- Flashlight can supply temporary lighting.
- Lens is centered for intuitive positioning.
- •Large capacity re-chargeable battery, up to 4 hours run time.
- Intelligent power-saving design.

Two year warranty covers defective parts and labor, should unit malfunction simply call us for support.

## Packaging and What's Included

#### Inside Box:

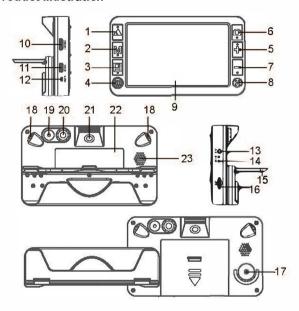
Patriot 5 FHD Digital Magnifier Power Adapter100-200V 5V-1A User Manual Protective Case, Cleaning Cloth Battery 3.7V USB charging cable Video output cable

#### Specifications

- Screen size: 5.0 inch high resolution color display
- Zoom range: 2X to 32X variable magnification
- Color modes: 26 user adjustable
- Mode custom configurable
- Near AND Distance capable
- Auto focus (Working range for near is 2" to 6")
- White LED lighting adjustable
- Screen brightness adjustable
- Preferences memory

- ●Image freeze
- ●lmage pan
- ■Reading line marker
- Storage and playback photos and voice memos
- Storage capacity slot; up to 32G SD card maximum
- Flashlight function
- ●TV output: Support AV and HDMI 1080i 60
- •Voice control: Not supported (for future use)
- Voice prompts
- •Voice memo capability, up to 30 seconds
- Vibration mode capable
- Handle and bracket are foldable
- Handle customization for left handed users
- Battery capacity: 2500mAH high-cap acity re-chargeable lithium battery, up to 4 hours run time
- Device dimension: 5.71" Length X 3.31" Width X 1.1" Depth
- Device weight: 0.5 Lbs. (Battery excluded).

#### Product illustration



- 1.Far/near button A
  2.Mode button M
- 3. Save button
- 4 Power on button ()
- 4. Power on button C
- 5. Zoom in button +
- 6. Freeze button O
- 7. Zoom out button -
- 8. Focus button 🕃
- 9. LCD

- 10. HDMI-C interface
- 11. TYPE-C USB interface 19. Far focus White
- LED Indicator light (power/charging)
- 13. AV interface
- 14. MIC

20. Far focus lens

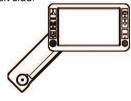
18 Near focus White LED

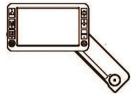
- 22. Battery cover
- 23. Speaker
- 12. Handle bracket
- 13. SD/TF card slot
- 14. Handle rotating shaft

1

#### 1. Customization for Left Handed User (if preferred)

Although handle comes pre-installed for right hand and left hand users due to auto rotating screen sensing. Left handed users may desire to further customize by relocating handle to left side

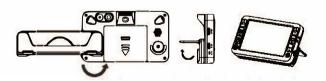




Left hand (optional relocated preference pictured above)

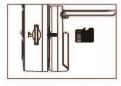
Right hand (default)

- 1. Handle may be removed and switched to left vs. right
- 2. Take out the rotating shaft and the rotating shaft cover, and exchange the two positions. (screwdriver required)
- 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 SD card NOT INCLUDED

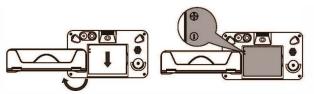


Install micro-SD/TF into card slot

 $\ \ micro-SD/TF\ gold\ pointers\ pointing\ up$ 

- 1. Micro-SD/TF card gold pointers pointing up, insert card into slot.
- 2. Push the card in, there will be a buzzing sound when it is in place.

#### 3.Install battery



Rotate the handle extending it out and then open the battery cover

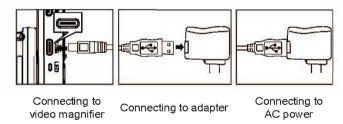
Install battery



Close the battery cover

- 1. Invert video magnifier, rotate the handle and remove battery cover.
- 2. Press the battery cover box and push the battery cover out down.
- 3.Install the battery according to the positive and negative tips.
- 4.Cover the battery box, push up and slide into place when hearing the "click" sound.

#### 4.Battery charging

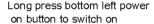


- 1. Connecting video magnifier to adapter by USB cable.
- 2.Connecting adapter to AC power.
- 3. Charging light( red light) is on when charging.
- Charging light(red light) will be off when complete charge.
- Upon unpacking please charge the battery to full capacity.
- 6.When low battery is displayed, please charge the battery.

Attention: In the charging process, please keep the charger and the video magnifier away from heat sources, keep in a well ventilated dry area for safety.

#### 5. Power on / off







Long repress bottom left power on button to switch off

- 1. Long press bottom left power on button  $\boldsymbol{\psi}$ , the video magnifier will turn on, and the green indicator lights up
- 2. Aim the lens focus at the reading target.
- Optimal reading effect can be attained through adjusting magnifying power, zoom plus or minus, changing color contrast modes.
- Long repress power on button () and the video magnifier will power off.

**Attention:** For best results, remove the protective film from the LCD screen before using.

#### 6.Controls described

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: Press freeze button • to freeze

image and repress freeze button • to unfreeze image. Far and near lens switch: Press Far/Near button & to switch far and near lens:

Photo storage and playback: Press save button 

to take and save photos, and long press save button | to playback.

System parameter setting: Long press mode button **M** to enter setting menu and long press freeze button 

to enter information menu.

Auto focus setting: Long press focus button to switch auto focus or manual focus, short press focus button to enter single time focus.

Time and date view: Press focus button 2 to enter time and date interface. ( Without auto focus version )

For more details, please refer to the chapter on function introduction and menu setting.

#### **Functions Introduction**

#### 1.Color mode switch

Switch the LCD screen image enhancement mode by Mode button M to meet different needs

26 kinds of image enhancement modes:

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

22)Green on yellow 24)White on red 26)White on yellow 23)Red on white 25)Yellow on white

The desired color mode can be customized by menu setting -> color mode, details see Color mode setting section.

#### 2.Zoom rate adjustment



16X magnifying





32X magnifying

Zoom in +or zoom out - can adjust zoom rate to achieve the best magnifying effect. Zoom in or zoom out variably between 2X to 32X.

#### 3.Switching between near and far view



Near lens Far lens

Switch near or far lens by Far/near button 🛦 , far and near scenes will then be clear and in focus when using proper mode.

Near lens applicable scene: Newspapers, books, drugs, signatures, mobile phones, tablets, banknotes, antiques and so on.

Far lens applicable scene: Blackboard, bus stop sign, road signs, guiding signs, menus behind counter, etc.



Low light

When the camera light is too dark, there will be a low light tips, as shown above.

#### 4. Auto focus function (selectable)



Auto real-time focus

Single time focus

Manual focus

Can achieve full depth of field coverage from 2 inches to infinity distance by auto focus function. We suggest you leave on auto-focus always

Long press focus button (3) to switch auto focus mode and manual focus mode.

**Auto real-time focus**: Under auto focus mode, the system will start real-time focus automatically according to the scene change to ensure clear picture.

Single time focus: Under auto focus mode, short press focus button to force single time focus.

Manual focus: Under manual focus, short press focus button 💽

, MF icon flashing, manual focus by zoom in button + and zoom out button -

#### 5.Image freezing and unfreezing

Freeze image after viewfinder



Watching image after freezing



Freeze button  $oldsymbol{\Omega}$  can freeze image and can observe the image at close distance, repress Freeze button  $oldsymbol{\Omega}$  to unfreeze image and return to live real-time view

#### 6.Reading line

Reading line can help text positioning to help users read quickly and continuously.





Vertical reading line

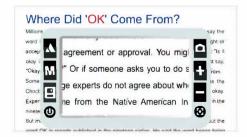


Where Did 'OK' Come From? Millions say the aht or agreement or approval. You mig accen Turn off the " Or if someone asks you to do s rom. as the ge experts do not agree about who okay. Choct ne from the Native American In in the Exper out the

reading line

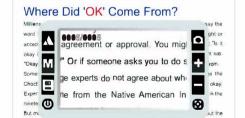
Long press Far/Near button ▲ to switch horizontal reading line, vertical reading line and remove the reading line. Moving reading line: When the reading line is flashing, the reading line may be positioned by pressing zoom in button+ and zoom out buttons -

#### 7.Storage and playback



Viewfinder





Playback

Press save button **1** to save the current photo, easy to follow local playback or computer playback.

Long press save button 

to enter the playback interface and replay saved photos to view.

Under playback mode, the buttons are defined as follows:

Pressing button	Short press operation	Long press operation
Far/near button	Previous picture	Image up(After zoom in)
Mode button M	Color mode switch	Exit playback/ Image left shift(After zoom in)
Save button 🖪	Next Photo	Image down( After zoom in)
Zoom in button 🕂	Image zoom in	Image zoom in
Freeze button 🖸	Voice memo/playback	Image right (After zoom in)
Zoom out button —	Image zoom out	Image zoom out

**Step 8. Attention:** The built-in memory can store about 50 files. To further your storage capability you can insert your choice of memory card, up to 32 gig, into the TF slot.

#### 9. Voice memo



Record voice memo



Play voice memo



Stop voice memo

Under playback mode

Press freeze button , make voice memo on the current photo, that is noting content of the photo by voice memo. When open the photo next time, voice will play content automatically. During recording voice memo, press freeze button to stop recording (Voice memo lasts for 30s at most). During playing voice memo, press freeze button to stop playing.

**Attention:** When there is a voice memo, delete it in the playback menu and record a new voice memo.

#### 10.Flashlight

Flashlight Feature can assist users by invoking as follows:

Activating flashlight: When unit is powered OFF, press and hold the freeze button  $\Box$  first and while doing so long press the power button  $\bigcup$ , flashlight is on. If you press freeze button  $\Box$  it will switch between light intensity, slow flash, flash, gradient and OFF

**Brightness adjustment:** Zoom in button+ or zoom out button—can brighten or dim flashlight brightness (except for the gradient mode).

Turn off flashlight: Long repress power button  $\ensuremath{\boldsymbol{\psi}}$  , and flashlight will be off.

#### 11.Memory function

As a convenience, the user preferences that are made will be saved as default.

#### 12. Power saving

Unit auto activates hibernation sleep mode with no activity after 1 minute.

Unit can enter hibernate mode with the screen showing the battery power, date and time in big print with no activity for one minute.



Under sleep status, you can press any key to wake up unit. If not woken, and no activity for 2 minutes after sleep/ hybernating, unit will shut down automatically to save power.

#### 13.Low battery notification/tip



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

When low battery notifies/tips, please charge the battery in time.

### 14.Handwriting

This video magnifier supports handwriting function. Open the bracket, keep the magnifier upright.

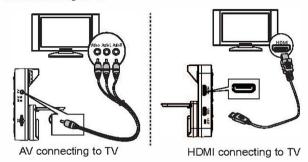


Reading with bracket



Writing under bracket

#### 15.Connecting to TV



Connect magnifier to TV by AV video cable to get a bigger, clearer display.

Connect magnifier to TV by HDMI cable to get clearer and more fluent display compared to AV video cable.

When the magnifier enters the video output mode, the LCD screen will turn off automatically.

#### 16.Connecting to computer

After connecting to computer by USB cable, the computer can recognize magnifier's the mass storage to playback the saved pictures and voice memo files on the computer.



#### **Menu Introduction**

Under menu open mode, the buttons are defined as follows:

Pressing button	Operation		
Far/near button ▲	Previous menu		
Mode button M	Exit menu		
Save button 🖪	Next menu		
Zoom in button +	Previous option		
Freeze button	Option setting		
Zoom out button —	Next option		

#### 1.Setting menu

Under preview mode, long press mode button **M** to enter the setting menu for magnifier parameter setting.

#### LCD brightness adjustment







Brightness 1

Brightness 3

Brightness 5

#### White LED brightness adjustment









Turn off white LFD

Brightness 1 Brightness 3

Brightness 5

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

Attention: 0 level to turn off white LED, mainly for reading mobile phones, panel and texts on other self-luminous instruments.

Under near lens mode, menu controls near lens White LED, under far lens mode, menu controls far lens White LED.

#### Beep volume adjustment



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

Attention: 0 level is beep off.

#### Vibration prompt may be turned on/off



Vibration prompt on

Vibration prompt off

As shown above, zoom in button + and zoom out button - can adjust between vibration prompt on and off.

#### Date and Time Settings:









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. Press freeze button 

to move setting option.

#### ■Color mode setting













Color mode

Open black on white mode

Turn off black on white mode

As shown on the previous page, zoom in button + and zoom out button − can switch. Press freeze 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.

Note: Color mode cannot be turned off.

#### 2.Playback menu

Under playback mode, long press mode button **M** to enter playback menu and manage files.



Delete current voice memo menu



Confirm delete current voice memo



Deleting **current** voice memo

As shown above, in the playback mode (long press disk button then long press the mode button), zoom in button + and zoom out button - can select confirmed option, and then press freeze button  $\mathbf{\Omega}$  to delete current voice memo.



Delete **all** voice memos menu



Confirm delete
all voice memos



Deleting **all** voice memos

As shown above, in the playback menu mode (long press disk button then long press the mode button), zoom in button + and zoom out button - can select confirmed option, and then press freeze button to delete all voice memos.



Delete current photo



Confirm delete current photo



Deleting current photo

As shown above, in the playback menu mode (long press disk button then long press the mode button), zoom in button + and zoom out button—can select confirmed option, and then press freeze button  $\bigcirc$  to delete current photo.



Delete all photos



Confirm delete



Deleting **all** photos

As shown above, in the playback menu mode (long press disk button then long press the mode button), zoom in button + and zoom out button - can select confirmed option, and then press freeze button to delete all photos.



Format menu



Confirm format



Formatting

As shown above, in the playback mode, zoom in button + and zoom out button - can select confirmed option, and then press freeze button  $\square$  to format disk.

Special reminder: Once deleting the file, the file cannot be restored. Please be careful.

Once formatting the disk, all files will be deleted and cannot be restored. Please be careful.

#### 3.Information menu

Long press freeze button  $\Omega$  to enter information menu to check system information.

#### Battery power display



Half power

100%

Full power

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

#### File information display

to be off



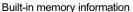
File information

As shown above, the file information menu displays the total number of pictures and voice memos.

#### Disk information display









Micro-SD/TF card information

As shown above, the disk information menu displays the current disk free space and the total space.

Version information display



#### Version information

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

#### Computer configuration requirements

This digital video magnifier requires the PC to meet the following requirements:

- Windows® 10 or later operating system
- ●Intel® Pentium 4, 2.8 GHz CPU or above
- At least 1GB RAM or greater
- Standard USB 2.0 or greater
- ●512MB or above video card

#### **Precautions**

In order to keep your digital video magnifier works 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 shielded

- Please ensure that using it at temperatures between 50 degrees F and 104 degrees F
- Please ensure that it is stored at temperatures between -4 degrees F and 149 degrees F
- Do not try to repair or open the unit to avoid damaging and voiding warranty
- Please use the matching power supply and battery only

Note: We recommend using a soft cloth to clean unit and avoid solvents and harsh chemical cleansers.

Note: Unit is designed to be used on battery and we suggest avoid using device while charging battery as its optimal to charge device after depleted battery. If you require extended usage then you may contact us for purchasing an additional battery that can be charged and set aside for critical extended use.

## **Trouble Shooting**

Problem	Solutions
Black screen	Long press power button to power on. Battery without power, charging it. Make sure the lens focus on the reading materials.
Can not power on	Battery without power, charging it.
No sound	Make sure if the volume at 1 to 5 in the menu setting.
Video magnifier focus failed, image is bluπed	Make sure if the environment is dark.  Try to press focus button to focus one time.  Make sure if enter to manually focus mode.
lmage is too dark or too bright	Make sure the lens focus on the reading.  Make sure if choose right lens.  (far/near lens)
lmage is blurred or dirty	Wipe the LCD screen and lens goggles.  Make sure if choose right lens.  (far/near lens)
Reading text is too small	To adjust zoom rate by pressing the zoom in button.
Can not save or card error prompt	Please format or change SD/TF card.
Connected to the TV, but the TV is not shown	Make sure the TV is on. When use the AV cable, switch the TV input to AV input. When use HDMI cable, switch the TV input to HDMI input. Make sure the video cable is properly connected to the magnifier and TV.

# Patriot® Device Registration



To register you new Patriot® device, please use a mobile device to scan the QR code above. This will bring you to our website to register. Inside of the packing you will find a Product Registration Card. Please fill out this card and mail it back to us at:

2125 SW Highway 484 Ocala, FL 34473

If you do not own a mobile device or can't mail the card back to us, please call us at 1-800-364-1608 to register your device over the phone.



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

For question or support, please contact us at:

800-364-1608 / 352-203-4164

Fax: 352-203-4617

Website: www.patriotvision.com Email: info@patriotvision.com

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