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Welcome To Use

Thank you for your purchasing of our company's portable digital video magnifier!

Please read and keep this manual carefully. It will help you to use the magnifier better and achieve the best magnifying effect.

Product Features

This Full HD 5.0 portable digital video magnifier is our company grand launch with high performance and high cost-effective performance.

- 5.0 large anti-glare screen, 800*480 resolution, high definition and high lighting;
- Dual SONY 1 Mega pixels image sensor, far and near clear, color truly;
- With dual auto focus design, full depth of field coverage from 5cm to infinite distance (optional);
- Custom-made high-end lens, large filed angle and extended depth of field, more text and continuous reading;
- 720P60 (far lens) , 720P60 (near lens) design, no lag, no smear, fluent HD;
- Professional image processing DSP to restore colors and details really;
- Intelligent image enhancement algorithm; Adapting to image scene intelligently and reproducing details after zooming in;
- Support take photos and playback function, HD storage and playback of scenery and text;
- 2X-32X infinite amplification, 2X smart zoom improves effective pixels and definition by 4X;
- Concave two-color button, high contrast, clear touch;

-
- With foldable bracket design, the screen is at an angle of 40 degrees to the desktop, comfortable reading, smooth handwriting;
 - With rotatable handle design, hovering anywhere, comfortable hand-held;
 - With detachable handle design, easy for left or right hand habits to use;
 - 26 color modes to meet different people's need;
 - Color mode customization function, any combination of enhancing mode, personalized custom;
 - Picture freeze, convenient to take a close look;
 - Image zoom panning function; Image zoom can be moved up and down around, easy to read;
 - Support reading line function, assist in positioning text, and read more easily;
 - Voice control is simple operation and easy to use for the visually impaired(optional);
 - Voice prompts is simple operation and easy to use for the visually impaired;
 - Voice memo is available for noting picture content by voice;
 - Support vibration prompt function, silent operation, clear hand touch feeling (optional);
 - Large icon user interface, clear and concise;
 - Backlight adjustable, comfortable eye protected; White LED light brightness adjustable and closed, suitable for reading mobile phone, tablets and other reading materials;
 - TF card storage card can expand storage capacity infinitely;
 - Memory function can automatically save the user's all the last settings and remember the user's habits;
 - AV/earphone and HDMI 1080i60 connecting to HD TV to provide greater and clearer visual effects;
 - TYPE-C USB interface is available, both positive and negative inserts are available;

- Flashlight can supply temporary lighting;
- Lens center is more in line with the normal use habit;
- Large capacity re-chargeable battery, ultimate power-saving and 4 hours runtime;
- Intelligent power-saving design; Automatic shut-down after the screen is static and no operation for 3 minutes ; Environmental protection and energy conservation;

New algorithm, new design and new configuration will bring you smooth, high-definition, portable new experience!

Packaging accessories

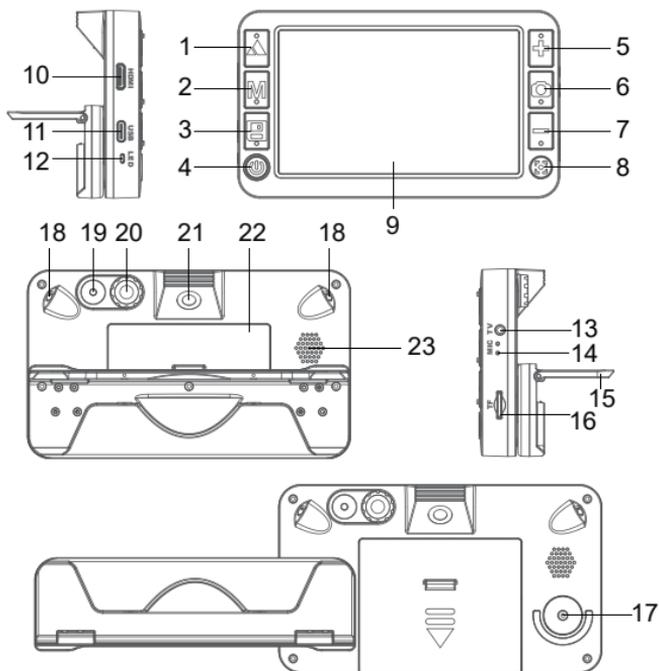
- | | | | |
|---------------------------|----------------|------------------|------|
| ● Digital video magnifier | 1PC | ● Power adapter | 1 PC |
| ● HDMI cable | 1PC (Optional) | ● User manual | 1 PC |
| ● Video output cable | 1PC | ● Protective bag | 1PC |
| ● USB charging cable | 1PC | ● Cleaning cloth | 1PC |

Technical specifications

- Screen size: 5.0 HD colorful LCD screen(800*480)
- Pixel size: 1 mega pixels (far focus lens), 1 mega pixels (near focus lens);
- Zoom rate: 2X to 32X infinite amplifying;
- Color mode: 26 kinds;
- Mode custom-made: Support;
- Dual lens: Support;
- Auto focus: Optional (Near lens: 5cm ~ 15cm; Far lens:)
- White LED adjustment: Support;
- Brightness adjustment: Support;
- Memory function: Support;
- Image freeze : Support;

-
- Image pan: Support;
 - Reading line: Support;
 - Storage and playback: Support;
 - Storage extended: 32G SD card support at most;
 - Flashlight function: Support;
 - TV output: Support AV and HDMI 1080i60
 - Voice control: Optional;
 - Voice prompt: Support;
 - Voice memo: Support, 30s voice record at most;
 - Vibration prompt: Optional;
 - Handle bracket: Support, foldable and rotatable;
 - Handle detachable: Support, can be used for left and right hand habits;
 - Working hours: last for over 4 hours;
 - Battery capacity: 2500mAH high-capacity re-chargeable lithium battery;
 - Device dimension: 145mm(length)x 84mm(width)x 28mm(height);
 - Device weight: 225g(Battery excluded);

Product structure

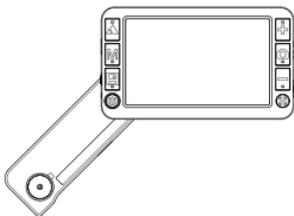


- | | | |
|----------------------|---|--------------------------|
| 1. Far/near button ▲ | 10. HDMI-C interface | 18. Near focus White LED |
| 2. Mode button M | 11. TYPE-C USB interface | 19. Far focus White LED |
| 3. Save button E | 12. Indicator light
(power/charging) | 20. Far focus lens |
| 4. Power on button ⏻ | 13. AV interface | 21. Near focus lens |
| 5. Zoom in button + | 14. MIC | 22. Battery cover |
| 6. Freeze button ⏸ | 15. Handle bracket | 23. Speaker |
| 7. Zoom out button - | 16. TF card slot | |
| 8. Focus button [] | 17. Handle rotating shaft | |
| 9. LCD | | |

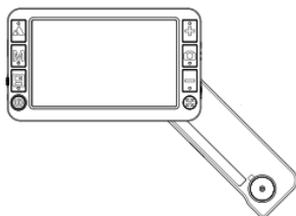
Use Introduction

1.Install handle

Handle can use for left hand habit, also could use for right hand habit.

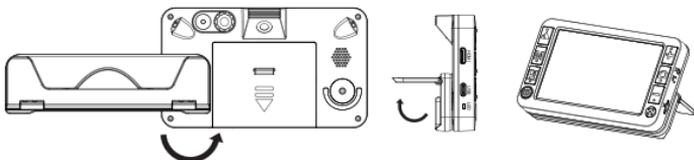


Left hand habit

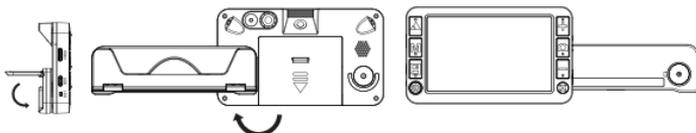


Right hand habit

- 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;

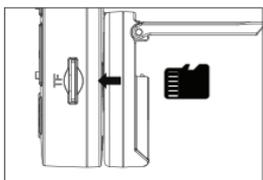


Near lens: screw the handle and open the handle bracket;

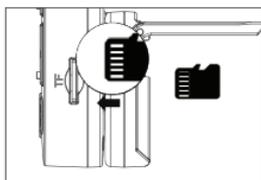


Far lens: close the handle bracket, unscrew the handle;

2.Install TF card



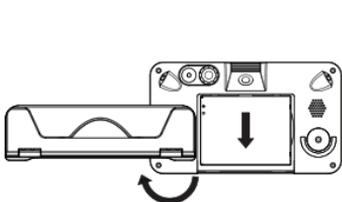
Install TF card



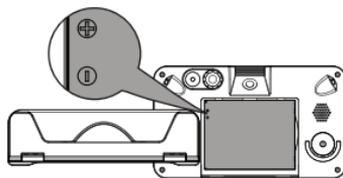
TF gold finger pointing up

- 1.TF card gold finger pointing up, insert TF card from TF card slot;
- 2.Push the TF card in, there will be a buzzing sound when it is in place;

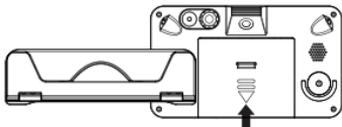
3.Install battery



Unscrew the handle,
open the battery cover



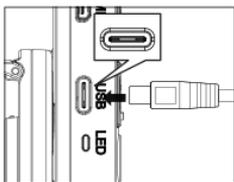
Install battery



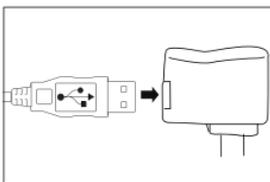
Close the battery cover

1. Invert video magnifier, unscrew the handle and avoid the entire 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;

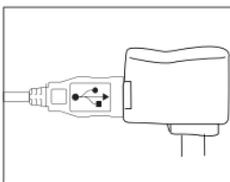
4. Battery charging



Connecting to
video magnifier



Connecting to adapter

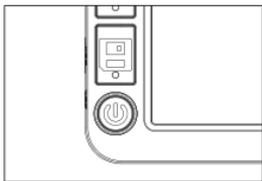


Connecting to
AC power

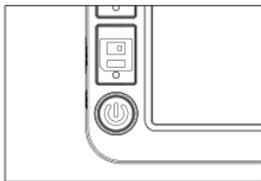
1. Connecting video magnifier to adapter by USB cable;
2. Connecting adapter to AC power;
3. Charging light(red light) is on when charging;
4. Charging light(red light) will be off when complete charge;
5. At the first time, please charge the battery to full;
6. When low battery tips, please charge the battery in time.

Attention: In the charging process, please keep the charger and the video magnifier have good heat dissipation and ventilation, so as to avoid danger caused by overheat.

5.Power on / off



Long press bottom left power on button to switch on



Long repress bottom left power on button to switch off

- 1.Long press bottom left power on button  , the video magnifier will turn on, and the green indicator lights up, and enter the vision aid mode;
- 2.Aim the lens focus at the reading target;
- 3.Optimal reading effect can be attained through adjusting magnifying power, enhanced mode, locking picture and the like operations;
- 4.Long repress power on button  and the video magnifier will be power off.

Attention: For best results, remove the protective film from the LCD and of lens goggles before using.

6.Use digital video magnifier

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  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:

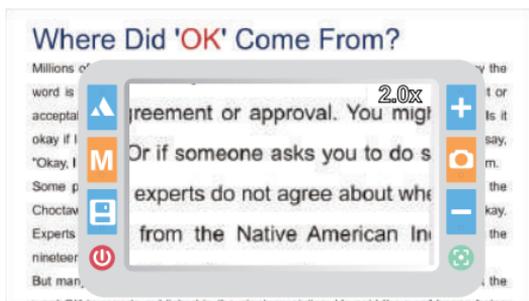
- | | | |
|--------------------------|--------------------|--------------------|
| 1)Color mode | 8)White on blue | 15)Orange on white |
| 2)Color enhancement mode | 9)Yellow on black | 16)White on orange |
| 3)Negative mode | 10)Black on yellow | 17)Red on black |
| 4)Monochrome mode | 11)Yellow on 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

2X Amplifying



16X Amplifying

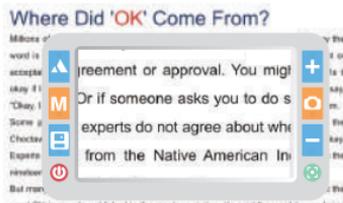


32X Amplifying



Zoom in **+** or zoom out **-** can adjust zoom rate to achieve the best magnifying effect;
This magnifier can zoom in or zoom out infinitely between 2X~32X.

3. Far lens and near lens switch



Near lens



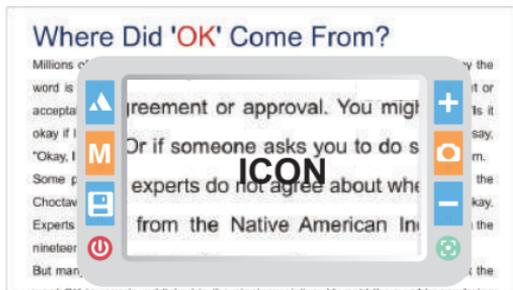
Far lens

Switch near or far lens by Far/near button **▲**, far and near scenes are the same clear;

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

Far lens applicable scene: Blackboard, bus stop sign, road signs, guiding signs, price list and so on.

Low light



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

4.Auto focus function (optional)



Auto real-time focus



Single time focus



Manual focus

Can achieve full depth of field coverage from 5cm to infinity distance by auto focus function;

Long press focus button  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 freeze and unfreeze

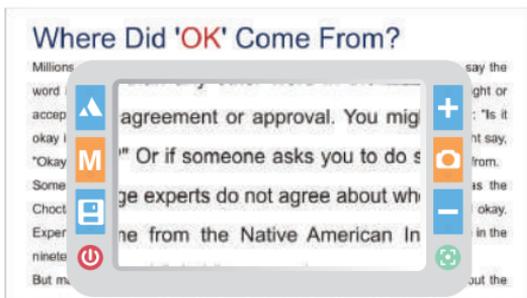
Freeze image
after viewfinder



Watching image
after freezing



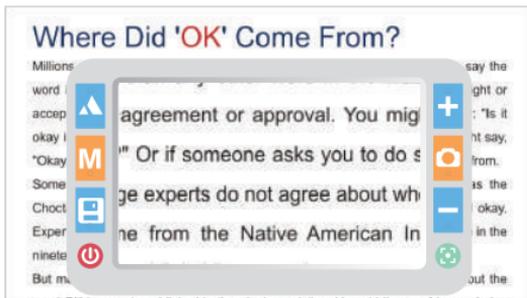
Turn off the reading line



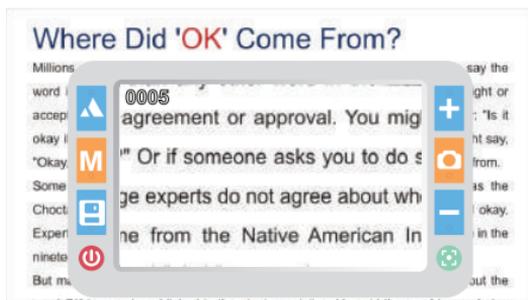
Long press Far/Near button ▲ to switch horizontal reading line, vertical reading line and close the reading line;
Moving reading line: When the reading line is flashing, the reading line is moved by pressing zoom in button + and zoom out buttons - .

7.Storage and playback

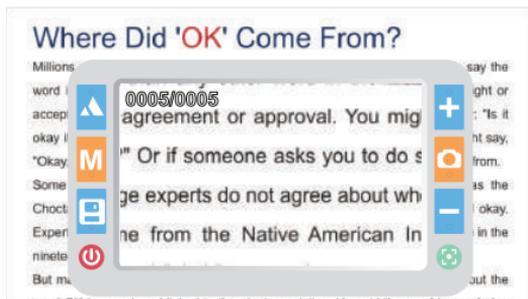
Viewfinder



Capture



Playback



Press save button  to save the current photo, easy to follow local playback or computer playback;
Long press save button  to enter the playback interface and replay magnifier saved photos.

Under playback mode, the buttons are defined as follows:

Pressing button	Short press operation	Long press operation
Far/hear 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

Attention: The number of files to be saved depends on the storage media. The built-in memory can store about 50 to 100 files.

8.Voice control (optional)

The machine has voice control function and can be controlled by voice by corresponding voice command. Instructions are as follows:

Voice instruction	Instruction remark
Image freeze	In preview mode, freeze the current image
Image unfreeze	In freeze mode, unfreeze the current image
Zoom in	Zoom in the image
Zoom out	Zoom out the image
Move left	Move left the image
Move right	Move right the image
Move up	Move up the image

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 plays the role of temporary lighting for video magnifier.

Turn on flashlight: under off status, keep pressing freeze button  and then long press power button  , flashlight is on;

Mode switch: By freeze button  to switch bright, slow flash, flash, gradient and close;

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  , and flashlight will be off.

11.Memory function

After turning off, memory function can save the user's all the last settings automatically and remember the user's habits.

12.Power saving

The video magnifier has intelligent power saving function. When no key operation and the screen rests for 1 minute,

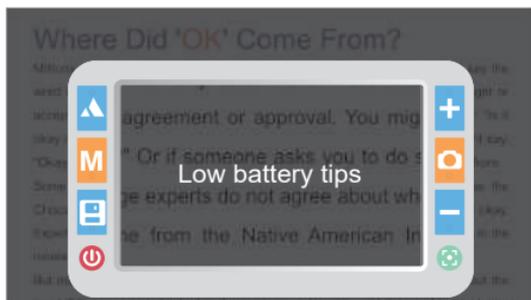
it will enter the sleep state automatically and the screen shows the battery power and the current date and time.

Automatically sleep



Under sleep status, pressing any key to wake up magnifier. No operation after 2 minutes, it will shut down automatically to save power.

13.Low battery tips



Low battery tips function: Screen will display the low power icon at low battery, and the power light flashes. When low battery tips, please charge the battery in time.

14. Handwriting

This video magnifier supports handwriting function. Screw handle of the magnifier, open the bracket, keep the magnifier upright and write;

Reading on bracket



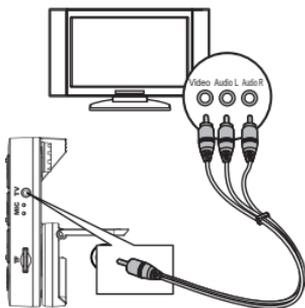
Writing on brack



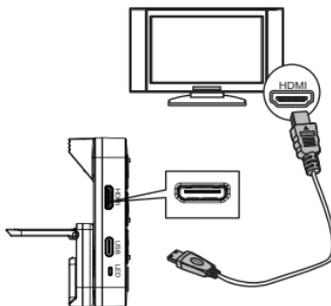
Bracket makes the magnifier and the desktop into a corner. It is ergonomic. On reading, the neck was natural state, relaxed and comfortable;

When handwriting, hand and pen can be easier to access the reading area, writes fluently.

15. Connecting to TV



AV connecting to TV



HDMI connecting to TV

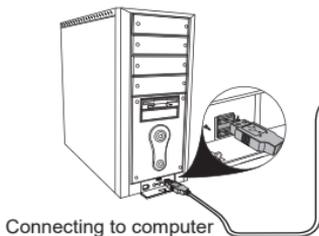
Connect magnifier to TV by AV video cable to get a bigger, clearer display;

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

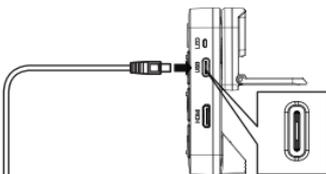
When the magnifier enters the video output mode, the LCD screen will turn off automatically.

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.



Connecting to computer



Connecting to video magnifier

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** ICON to enter the setting menu for magnifier parameter setting.

● LCD brightness adjustment



Brightness 1



Brightness 3



Brightness 5

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

● White LED brightness adjustment



Turn off
white LED



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



Turn off beep



Volume1



Volume3



Volume5

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

Attention: 0 level is beep off.

●Vibration prompt on and off (Optional)



Vibration prompt on



Vibration prompt off

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

Attention: Only models with a suffix of X support vibration prompt operation.

● Voice control on and off (Optional)



Voice control on



Voice control off

As shown above, zoom in button **+** and zoom out button **-** can adjust between voice control on and off.

Attention: Only models with a suffix of X support touch screen operation.

● 日期时间设置



Year setting



Month setting



Date setting



Hour setting



Month setting



Date 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 above, 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.
Attention: 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



Delete current voice memo menu



Confirm delete current voice memo



Deleting current voice memo

As shown above, zoom in button **+** and zoom out button **-** can select confirmed option, and then press freeze button **⏸** to

●Delete voice memos



Delete all voice memos menu



Confirm delete voice memos



Deleting voice memos

As shown above, zoom in button **+** and zoom out button **-** can select confirmed option, and then press freeze button **⏸** to delete all voice memos.

●Delete current photo



Delete
current photo



Confirm delete
current photo



Deleting
current photo

As shown above, zoom in button **+** and zoom out button **-** can select confirmed option, and then press freeze button **⏸** to delete current photo.

●Delete all photos



Delete all photos



Confirm delete
all photos



Deleting all photos

As shown above, zoom in button **+** and zoom out button **-** can select confirmed option, and then press freeze button **⏸** to delete all photos.

●Format disk



Format menu



Confirm format



Formatting

As shown above, zoom in button **+** and zoom out button **-** can select confirmed option, and then press freeze button **⏸** 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  to enter information menu to check system information.

●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.

●File information display



File information

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

●Disk information display



Built-in memory information



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® Win7/Vista/XP operating system;
- Intel® Pentium 4, 2.8 GHz CPU or above;
- At least 1GB RAM or above;
- Standard USB 2.0 or above;
- 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 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 aids to avoid damaging warranty;
- Please use the matching power supply and battery, otherwise danger or loss will occur;
- Unplug power and remove battery before cleaning magnifier.
Use soft cloth to clean it, alcohol solvents or any other cleaners cannot be used.

Warning:

Do not use it during charging!

White LED surface in high temperature, do not touch!

Problems solutions

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 blurred	Make sure if the environment is dark; Try to press focus button to focus one time; Make sure if enter to manually focus mode;
Image is too dark or too bright	Make sure the lens focus on the reading; Make sure if choose right lens (far/near lens) ;
Image 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 TF or change 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;