

User manual Nara 7



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Welcome to use

Thank you for purchasing 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

Our Full HD 7.0 portable digital video magnifier is our company grand launch with high performance and high cost-effective performance.

- 1080P30(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;
- 7.0 large anti-glare screen, 1024*600 resolution, high definition and high lighting;
- Multi-point capacitive touch screen, support picture-in-picture, zoom in and out and drag gestures operation (optional);
- Custom-made high-end lens, large filed angle and extended depth of field, more text and continuous reading;
- Dual lens design, far and near scenes are equally same clear;
- With dual auto focus design, full depth of field coverage from 5cm to infinite distance (optional);
- 8Mega pixels camera, HD storage and playback of scenery and text;
- 2X-32X infinite amplification, clear and smooth;
- 2X smart zoom improves effective pixels and definition by 4X;
- Notebook shape, ultrathin and portable;
- Concave two-color button, high contrast, clear touch;
- Ergonomic support, comfortable reading and fluent handwriting;
- 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;
- Reading line function and auxiliary continuous reading text;
- 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;
- 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;
- SD 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 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!

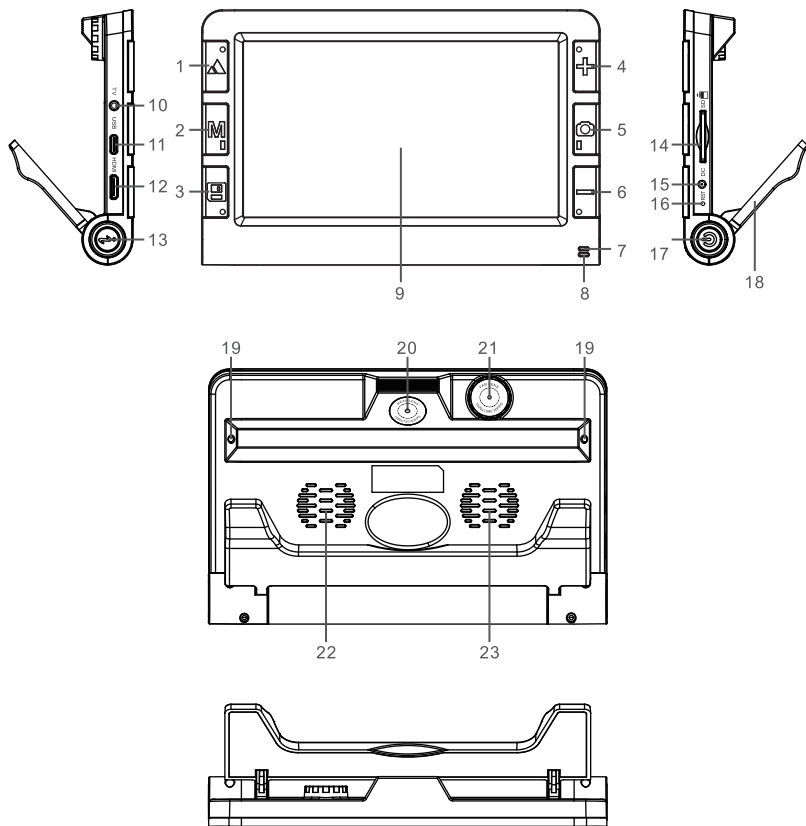
Packaging accessories

●Digital video magnifier	1set	●Power adapter	1pc
●HDMI cable	1pc(optional)	●User manual	1pc
●Video output cable	1pc	●Protective case	1pc
●USB charging cable	1pc	●Cleaning cloth	1pc
●DCIN charging cable	1pc		

Technical specifications

- Screen size: 7.0 HD colorful LCD screen(1024*600);
- Pixel size: 8mega pixels (far focus lens), 8 mega pixels (near focus lens);
- Zoom rate: 2X to 32X infinite amplifying;
- Color pattern: 26 kinds;
- Mode custom-made: support;
- Dual lens: support;
- Auto focus: Optional (Near lens: 5cm ~ 20cm; Far lens: 20cm ~ infinity distance)
- Capacitance-touch : Optional;
- 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;
- Bracket handle: support;
- Working hours: last over 4 hours;
- Battery capacity: 5200mAH high-capacity chargeable lithium battery;
- Dimension: 195mm(length) x 125mm(width) x 25mm(height);
- Weight: approximately 435g (with touching screen);
approximately 395g (without touching screen);

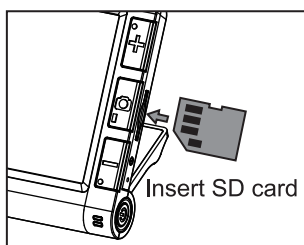
Product structure



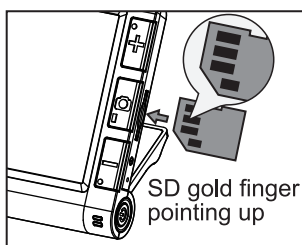
- | | | |
|-------------------------------|-------------------------|-----------------------|
| 1、Far/near button ▲ | 9、LCD | 17、Power button ⏻ |
| 2、Mode button M | 10、AV interface | 18、Bracket |
| 3、Save button [Icon] | 11、TYPE-C USB interface | 19、White LED |
| 4、Zoom in button + | 12、HDMI-C interface | 20、Near focus lens |
| 5、Freeze button [Icon] | 13、Smart button [Icon] | 21、Far focus lens |
| 6、Zoom out button - | 14、SD card slot | 22、Speaker |
| 7、Power light(green) | 15、DCIN interface | 23、Heat emission hole |
| 8、Battery charging light(red) | 16、Reset button | |

Use introduction

1.Install SD card



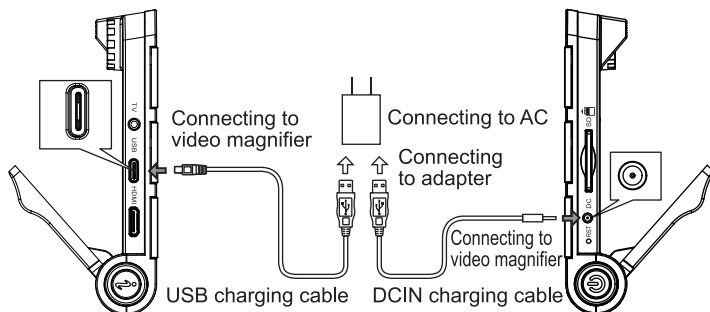
Insert SD card



SD gold finger pointing up

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

2.Battery charging



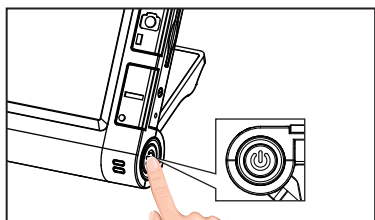
- 1.Connecting video magnifier to adapter by USB cable or DCIN cable;
- 2.Connecting adapter to AC power;
- 3.Charging light(red light) is on when charging;
- 4.Charging light(red light) will be off when complete charge;
- 5.Please charge the battery to full at the first time using;
- 6.When low battery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

Attention:

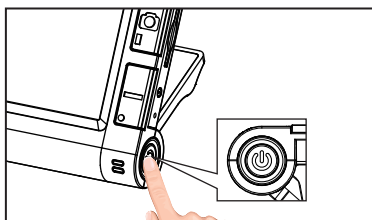
In the charging process, please keep the charger and the video magnifier have good heat dissipation and ventilation, so as to avoid danger caused by overheat.

USB cable charging may need more time, better to use DCIN cable to charge fast.



3.Power on and power off



Long press right power on button to switch on



Long repress right power on button to switch off

- 1.Long press right **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.



4.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 O** to enter information menu;

Auto focus setting: Long press **smart button i** to switch auto focus or manually focus, short press **smart button i** to enter single time focus;

Time and date view : Press **smart button i** 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 the different needs.

26 kinds of image enhancement modes:

- | | | |
|--------------------------|--------------------|--------------------|
| 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 | |

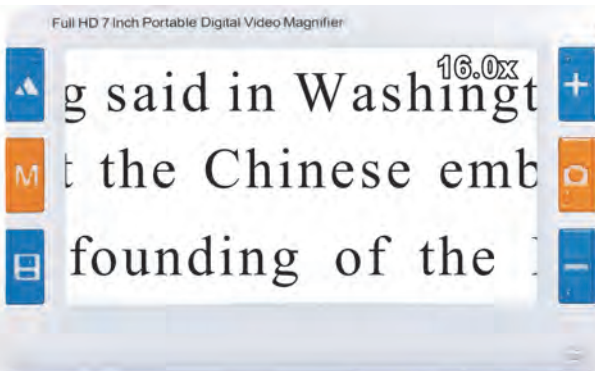
The desired color mode can be customized by menu setting -> color mode, details see Color mode setting section.

2.Zoom rate adjustment

2X Amplifying



16X Amplifying



32X Amplifying



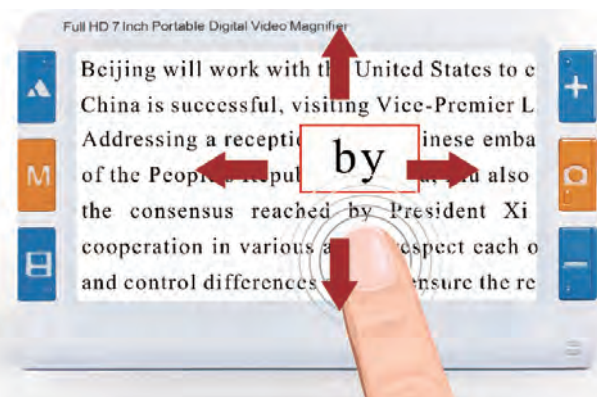
Zoom in + or **zoom out—** can adjust zoom rate to achieve the best magnifying effect;

This magnifier can zoom in or zoom out infinitely between 2X ~32X;

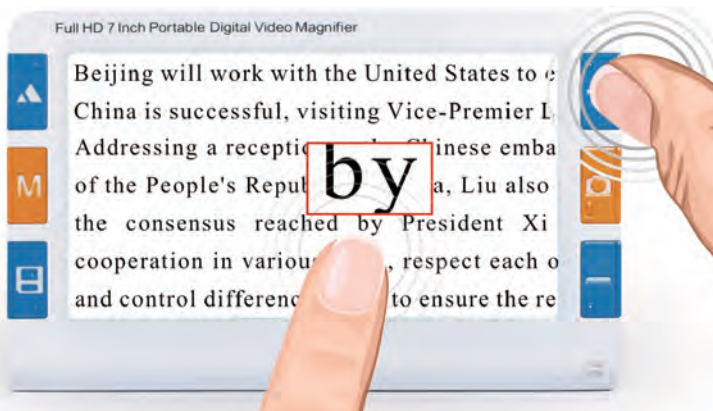
3.Touch screen operation (optional)

This video magnifier supports the following operating functions of the touch screen:

Picture-in-picture function: Without zoom in, drag the touch screen, achieve picture-in-picture function



Picture-in-picture (PIP effect)



Zoom in / Zoom out button to adjust font in picture-in-picture

Click: Menu button operation;
Double click: Freeze/Unfreeze operation;
Long press: Mode switch operation;
Zoom in gesture: Zoom in image;
Zoom out gesture: Zoom out image;
Dragging gesture: Start picture-in-picture without zoom out;
After zoom in, pan image is available.

Attention:

If the touch screen is watery or dirty, it may cause the touch screen to malfunction. Please keep the touch screen clean. Please use the original charger, non-original charger may cause the touch screen failure or malfunction.

Only models with a suffix of Plus support touch screen operation.

4.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;

5.Auto focus function (optional)

Single time
center focus



Touch single
point focus



Manual focus

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

Long press **smart button i** to switch auto focus mode and manually focus mode;

Auto focus: short press **smart button i** to enter single time center focus; Click screen to enter touch single point focus;

Manually focus: short press **smart button i** , MF icon flashing, manually focus by **zoom in button +** and **zoom out button -** ;

6.Image freeze and unfreeze




Freeze image after viewfinder



Watching image after freezing

Freeze button  can freeze image and can observe the image

at close distance, which is not easy to watch before freezing;
Repress **Freeze button**  to unfreeze image and recover real-time view.

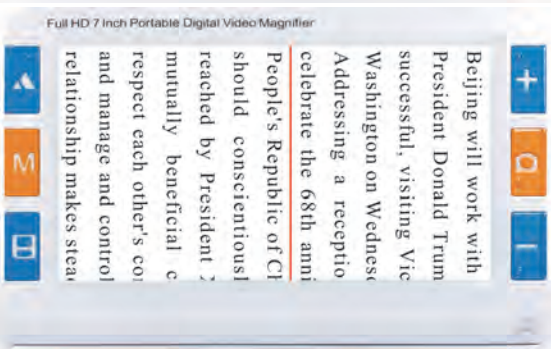
7. Reading line

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

Horizontal
reading line



Vertical
reading line



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 +** and **Zoom out -** buttons.

8.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/near button 	Previous photo	Image up(After zoom in)
Mode button 	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 / Voice 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.

9.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
Move down	Move down the image
Lens switch	Switch to near lens/ far lens
Mode switch	Switch color enhancement mode
Photo save	In preview mode, save current photo
Current time	Display the current date and time, and the battery level
Power off	Turn off digital video magnifier

10.Voice memo

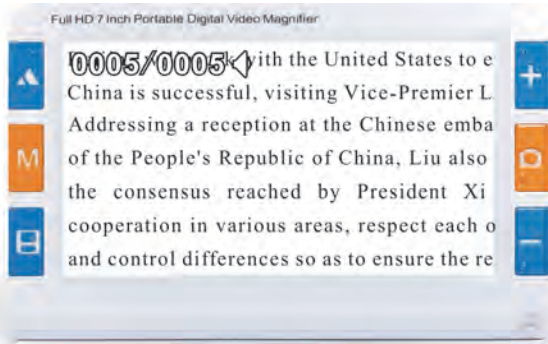
Record voice memo




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.


11.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.

12.Memory function

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

13.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.

14.Low battery tips

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.

15.Handwriting

The video magnifier supports handwriting function. Open its bracket, keep it upright and write.

Reading on
bracket



Writing on
bracket



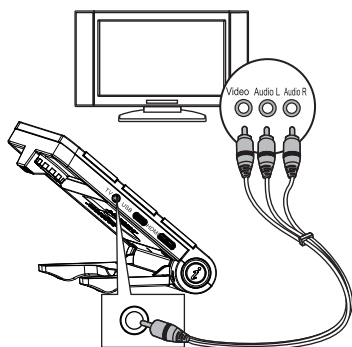
Bracket makes the magnifier and the desktop into a corner. It is ergonomic. On reading, the neck was natural state, relaxed and comfortable;

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

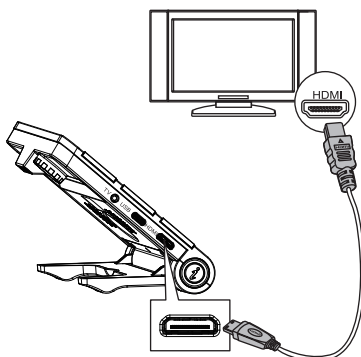
Rotate the magnifier 180 degrees for left hand writing.

16.Connecting to TV

AV connecting to TV



HDMI connecting to TV



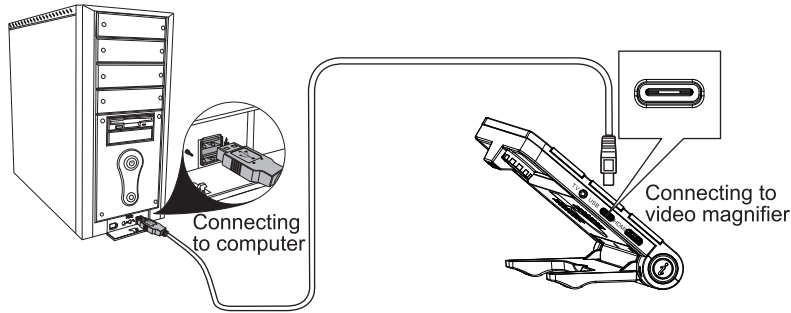
Connect magnifier to TV by AV video cable to get a bigger, clearer display;

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.







17.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

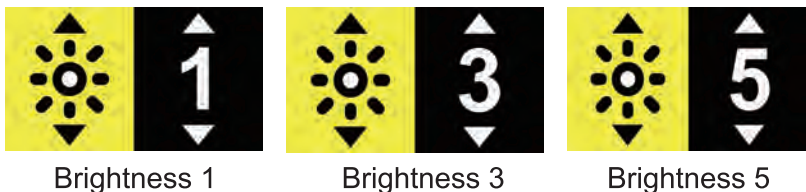
Under menu open mode, the buttons are defined as follows:

Pressing button	Operation
Far/near button 	Previous menu
Mode button 	Exit menu
Save button 	Next menu
Zoom in button 	Previous option
Freeze button 	Option setting
Zoom out button 	Next option

1.Setting menu

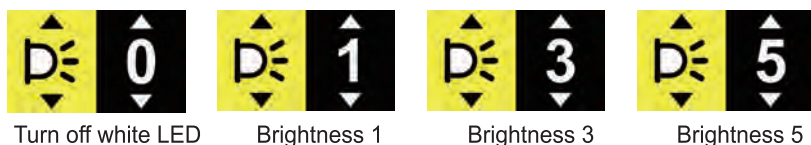
Under preview mode, long press the **mode button M** to enter the setting menu for magnifier parameter setting.

●LCD brightness adjustment



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

●White LED brightness adjustment



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.

●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.

●Touch screen on and off(optional)



Touch screen on



Touch screen off

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

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

●Date and time setting



Year setting



Month setting



Date setting



Hour setting



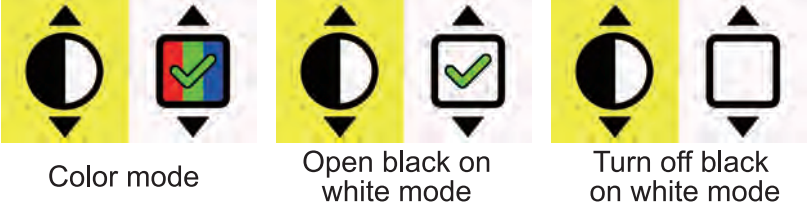
Minute setting



Second setting

As shown above, **zoom in button +** and **zoom out button -** can adjust value. Press **freeze button** to move setting option.

●Color mode setting



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 can not 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 current voice memo.

●Delete all voice memos



Delete all voice memos menu



Confirm delete all voice memos



Deleting all 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.

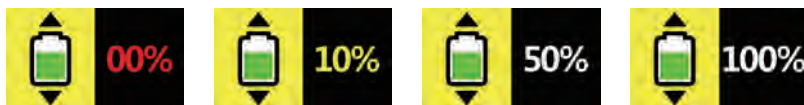
Special reminder: Once deleting the file, the file cannot be restored. Please be careful

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

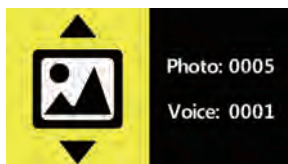
Half power

Full power

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

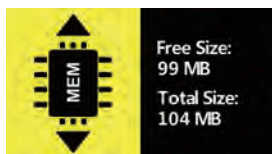
●File information display

File information

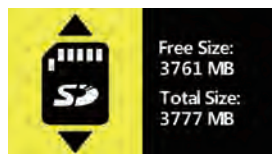


As shown above, the file information menu displays the total number of photos and voice memos.

●Disk information display



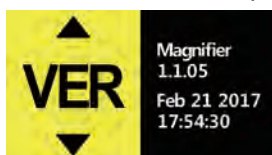
Built-in memory information



SD card information

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

●Version information display



Version information
(Standard version)



Version information
(Plus touch screen)

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;
- 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!

Problem solutions

Problem	Solutions
Black screen	Long press power button to power on; Battery is dead, charging it ; Make sure the lens focus on the reading;
Cannot 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 smart button to focus one time; Make sure if enter to manually focus mode;
The image is too dark or too bright	Make sure the lens focus on the reading materials; 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;
Cannot save or card error prompt	Please format SD or change SD card;
Connected to the TV, but the TV is not shown	Make sure the TV is on; When using the AV cable, switch the TV input to AV input; When using HDMI cable, switch the TV input to HDMI input; Make sure the video cable is properly connected to the magnifier and TV;