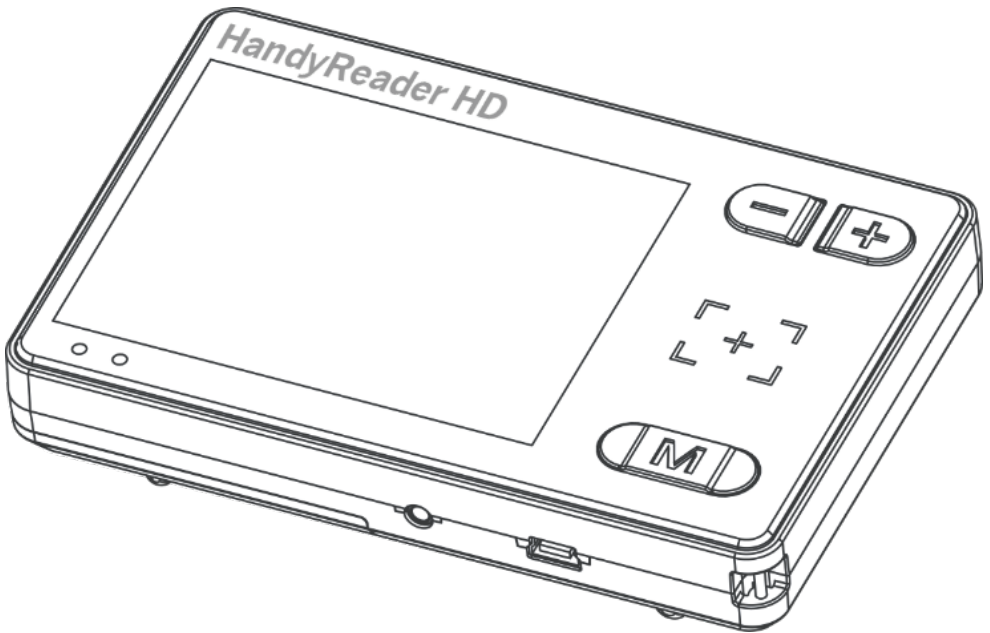


HandyReader HD v2

3.5" Handheld Video Magnifier



User Manual v1.0



VisionAid
International

Contents

Certifications	2
Welcome	3
What's in the box?	3
Technical Specifications	4
Overview Diagram	5
Clear Protective Film.....	7
Rechargeable Battery.....	7
Inserting the Battery.....	7
Charging the Battery	8
Using the HandyReader HD v2	9
Turning On / Off.....	9
Auto Power Off	9
Reading	9
Adjusting Magnification.....	10
Changing Colour Mode	10
Freeze Frame.....	12
Reading Lines	12
Settings Menu	13
Auto Power Off	16

Low Battery 16

Saving of Settings 17

Flip-Out Stand 17

TV Connection 17

Important Precautions 18

Troubleshooting 19

Warranty..... 21

Support and Assistance 22

 Your Local Distributor 22

 Manufacturer 23

Certifications

This product confirms to the following certifications:



Welcome

Thank you for purchasing our HandyReader HD v2 portable video magnifier. To help ensure that you get the very best from your new video magnifier, please take some time to read through this manual.

What's in the box?

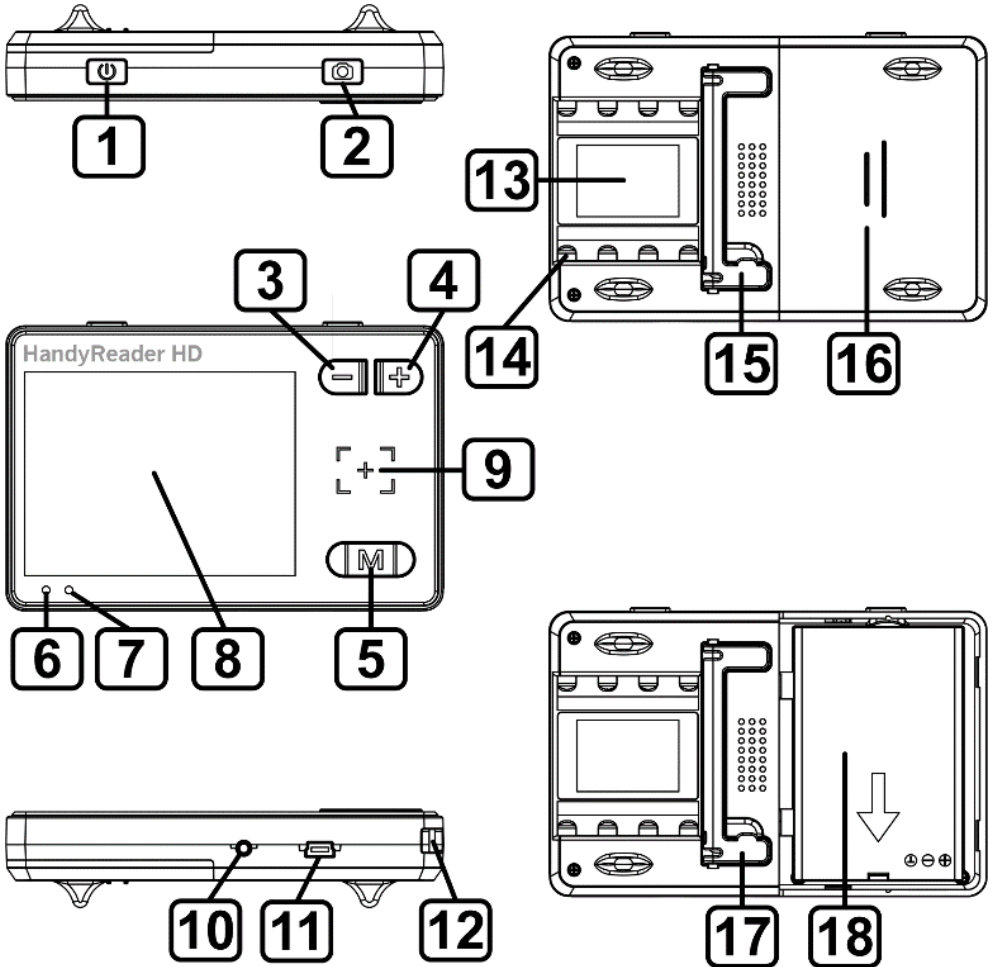
1. HandyReader HD v2 Portable Digital Video Magnifier
2. Rechargeable Battery
3. Mains Power Adapter and USB Charging Cable
4. Wrist Lanyard
5. Storage Pouch
6. Screen Cleaning Cloth
7. Video Output Cable
8. User Manual
9. Quick Reference Guide

Technical Specifications

- **Screen size:** 3.5" HD full colour display
- **Magnification range:** x2 to x32 continuous
- **Camera pixel size:** 1 Megapixel
- **Viewing modes:** 26
- **Lighting:** Integrated LEDs with on / off function
- Automatically stores last used settings
- Composite video output (cable supplied)
- Selectable audible feedback
- Freeze frame function
- **Battery life:** 4 hours depending on settings
- **Battery type:** 1500mAH high-capacity rechargeable Li-ion battery
- **Dimensions:** 115 x 78 x 28 mm
4.5 x 3.1 x 1.1 inches
- **Weight:** 150 g, 5.3 oz (including battery)

Overview Diagram

Please use the diagram and guide below to familiarise yourself with your HandyReader HD v2 handheld video magnifier.



1. **Power Button** - Press and hold (2 seconds) to turn On / Off
2. **Freeze / Reading Lines Button** - Tap to freeze the image on the screen
Press and hold (2 secs) to turn reading lines (horizontal and vertical) on and off
3. **Zoom Out Button** - Press to reduce magnification
4. **Zoom In Button** - Press to increase magnification
5. **Colour Mode Button** – Tap to cycle viewing modes (colour combinations)
6. **Green LED Power Indicator**
7. **Red LED Charging Indicator**
8. **High Contrast Screen**
9. **Reading Target**
(reading camera is located under target)
10. **Video Output Socket**
(only use supplied cable)
11. **USB Charging Socket**
(only use supplied charger)
12. **Wrist Lanyard Attachment Point**
13. **Camera**
14. **LED Lighting**
15. **Flip-Out Stand** - Can be used to lower minimum magnification level and assist with handwriting

16. **Battery Cover** – Serial number located on inside
17. **Speaker**
18. **Rechargeable Lithium-Ion Battery (BP-4L 3.7v)**

Clear Protective Film

When new, both the **High Contrast Screen** and the **Camera (#8 and #13 on the Overview Diagram, P5)** have protective films over them. To improve image quality, these can be removed by peeling off the covers from one corner.

These may have been removed entirely by your distributor before shipping or have the corners folded down to make them easier to pull off.

Rechargeable Battery

Inserting the Battery

From the factory, the li-ion battery is not fitted in the unit. Shipping laws in your country may prevent your local distributor from inserting the battery for you prior to shipping. If you need to insert it, follow these steps:

1. Remove the Battery Cover (**#16 on the Overview Diagram, P5**) by sliding outwards.
2. Insert the battery ensuring that the gold terminals in the battery compartment align with the terminals on the battery.
3. Refit the battery cover.

Charging the Battery

Before using your HandyReader HD v2 for the first time, it is important to fully charge its battery:

1. Connect the supplied mains charging adapter to the HandyReader HD v2 using the supplied USB cable (**#11 on the overview diagram, P5**).
2. Connect the charger to a mains socket and turn on the power.
3. The LED Charging Indicator illuminates red to show charging is taking place.
4. When charging is complete the LED Charging Indicator will turn off.
5. Depending on your screen brightness setting, the HandyReader HD v2 will now run for approximately 4 hours before displaying a low-battery warning.
6. When the low-battery warning is displayed, please follow the steps above to recharge the

battery. It is possible to recharge the battery before the low-battery warning is displayed.

Using the HandyReader HD v2

Turning On / Off

To turn the HandyReader HD v2 on, press and hold the **Power Button for 2 seconds**. The **Green LED Power Indicator** and **High Contrast Screen** will illuminate. If the sound is turned on, an audible tone will also be heard. To turn the unit off, simply press the **Power Button again for 2 seconds**.

Auto Power Off

If the unit is not used for 2 mins, the unit will automatically power itself off to conserve battery.

Reading

Place the HandyReader HD v2 onto the information you wish to view. The camera is located to the right of the High Contrast Screen under the **Reading Target (#9 on the Overview Diagram, P5)** to locate the correct position. Simply slide the HandyReader HD v2 over the document / object, across the text to read.

Adjusting Magnification

Use the **Zoom In** and **Zoom Out Buttons (#3 and #4 on the Overview Diagram, P5)** to adjust the magnification level. The HandyReader HD v2 features continuous zoom from 2x to 32x.

Changing Colour Mode

Tap the **Colour Mode Button (#5 on the Overview Diagram, P5)** to cycle through the enabled colour combinations and select the desired viewing mode. The HandyReader HD v2 has 26 viewing modes that drastically improve contrast when reading text.

There are 5 colour modes enabled by default. To enable or disable particular colour modes, please see “Enabled Colour Modes (contrast icon)” on page 15 in the Settings Menu.

The complete list of available colour modes is shown below:

- 1) Full colour mode (**Enabled – cannot be disabled**)
- 2) Enhanced colour mode
- 3) Inverted colour mode
- 4) Greyscale mode

- 5) Black text on white background (**Enabled**)
- 6) White text on black background (**Enabled**)
- 7) Blue text on white background
- 8) White text on blue background
- 9) Yellow text on black background (**Enabled**)
- 10) Black text on yellow background (**Enabled**)
- 11) Yellow text on blue background
- 12) Blue text on yellow background
- 13) Green text on white background
- 14) White text on green background
- 15) Orange text on white background
- 16) White text on orange background
- 17) Red text on black background
- 18) Black text on red background
- 19) Orange text on black background
- 20) Black text on orange background
- 21) Yellow text on green background
- 22) Green text on yellow background
- 23) Red text on white background
- 24) White text on red background
- 25) Yellow text on white background

26) White text on yellow background

Freeze Frame

To **freeze** the image on the screen, **tap the Freeze Button (#2 on the overview diagram, P5)**. This is ideal if you are reaching up to read the price of an item on a shelf for example. While viewing a frozen image, the magnification and colour modes can still be adjusted.

To **un-freeze** the image, simply **tap the Freeze Button** again.

Reading Lines

To help you track across lines of text or down columns, a horizontal or vertical line can be positioned on the screen.

To enable the reading line, press and hold the **Freeze button (#2 on the overview diagram, P5)**.

A flashing horizontal line will appear on the screen. It will flash for 5 seconds and if during that time the Zoom in or Zoom out buttons are pressed; you can adjust the position of the line on screen. After 5 seconds the line will stop flashing.

Pressing and holding the Freeze button again will change the line to a vertical one.

Pressing and holding the Freeze button a third time will turn the reading line off.

Settings Menu

This allows you to adjust settings and see information for your HandyReader HD v2. To enter and exit the Settings Menu, press and hold the Colour Mode button (**#5 on the Overview Diagram, P5**).

There are 7 different menu items. To move to the next menu item, quick press the Colour mode button again.

Any settings that have been adjusted are automatically saved when exiting the Settings menu.

1. Screen Brightness (sun icon)

As some users are very sensitive to light levels, the HandyReader HD v2's screen brightness has 5 different levels. Level 5 is the default setting.

To reduce the brightness, press the Zoom Out button (**#3 on the Overview Diagram, P5**).

To increase the brightness, press the Zoom In button (**#4 on the Overview Diagram, P5**).

Reducing the brightness will help to increase battery life.

2. LED Brightness (LED icon)

As some users are very sensitive to light levels and some surfaces might benefit from lowering the brightness level to reduce reflections (e.g. viewing a mobile phone screen) there are 6 different LED brightness levels. Level 3 is the default setting.

To reduce the LED brightness, press the Zoom Out button (**#3 on the Overview Diagram, P5**).

To increase the LED brightness, press the Zoom In button (**#4 on the Overview Diagram, P5**).

3. Volume (speaker icon)

HandyReader HD v2 features voice prompts to help users know which button they've pressed. The volume can be adjusted in 6 levels. The default level is 0 (off).

To decrease the volume of the voice prompts, press the Zoom Out button (**#3 on the Overview Diagram, P5**).

To increase the volume of the voice prompts, press the Zoom In button (**#4 on the Overview Diagram, P5**).

4. Date and Time (calendar icon)

HandyReader HD v2 features a large text date and time screen shown when in Power Saving Mode.

To set the date and time, use the Zoom Out (**#3 on the Overview Diagram, P5**) and Zoom In (**#4 on the Overview Diagram, P5**) buttons to adjust the highlighted option.

To change the highlighted option, e.g. move from year to month, month to day etc. press the Freeze button (**#2 on the overview diagram, P5**).

5. Enabled Colour Modes (contrast icon)

This is used to enable and disable colour modes (as detailed in Enhanced Colour Modes on pages 10/11).

To enable or disable the currently highlighted mode, press the Freeze button (**#2 on the Overview Diagram, P5**).

To scroll up and down the available enhanced colour modes press the Zoom Out (**#3 on the**

Overview Diagram, P5) and Zoom In (#4 on the Overview Diagram, P5) buttons.

6. Battery (battery icon)

This shows the remaining battery level in 10 percent increments.

7. Firmware Version (VER)

This shows the current version of the HandyReader HD v2 firmware.

Auto Power Off

The HandyReader HD v2 has an automatic power off function to save battery.

If there is no operation for 1 minute, the screen will display the battery status, date and time. The Battery Indicator LED will also flash green. If there is no operation for another 2 minutes, the HandyReader HD v2 will automatically power off.

Low Battery

Just before the battery runs out, 'Battery Low' will be displayed on the screen. Please charge the unit.

Once the battery is completely flat the HandyReader HD v2 will automatically turn off.

It is not recommended to use the unit while charging.

Saving of Settings

The HandyReader HD v2 automatically remembers all your settings when powered off e.g. Colour Mode, Zoom Level, LEDs on / off.

Flip-Out Stand

To raise the Flip-Out Stand (**#15 on the Overview Diagram, P5**) insert your index finger into the small recess on one side of the stand and lift outwards.

This can be used for reducing the minimum magnification and can aid when handwriting under the unit.

To close the Flip-Out Stand, simply push it back in.

TV Connection

HandyReader HD v2 features the ability to connect to the Composite Video Input socket on your television set.

Simply connect the small end of the supplied TV cable to the **Video Output Socket (#10 on the Overview Diagram, P5)** and the Yellow Round

Phono (RCA) connector into the corresponding socket on your TV.

Make sure your television is turned on and select the correct source / input e.g. AV1. Refer to your television user manual for further details.

NOTE: When connected to a TV screen, there is no output on the HandyReader HD v2's screen and you will notice a reduction in frame rate.

Important Precautions

In order to keep your HandyReader HD v2 digital video magnifier in good working order, please read and carefully follow these precautions:

- When not in use, return the magnifier to the supplied storage pouch.
- Do not expose the magnifier to high temperatures or direct sunlight.
- Keep the magnifier away from moisture, rainwater, liquid and chemicals.
- Do not use the magnifier near electronic medical devices.
- Only use the magnifier in temperatures between 10°C and 40°C.
- Only store the magnifier in temperatures between 5°C and 40°C.

- Never attempt to repair or open the magnifier as this will invalidate the warranty and may cause serious damage to the unit.
- Only use the supplied mains charger and cables and always replace the internal battery with one of the same specification. Failure to do so may result in injury and/or serious damage to the magnifier.
- Avoid touching the lens of the camera.
- Do not hit, vibrate, squeeze or drop the unit.
- If being used by children, please follow guidance from a guardian to avoid accidents.
- Before cleaning the magnifier, please disconnect the charger and remove the battery. Only use the supplied lens cloth to clean the magnifier, or a similar soft dry cloth. Never use cleaning materials such as solvents or detergents to clean the magnifier.

Troubleshooting

Problem	Possible Cause and Solution
Dark screen with no image	HandyReader HD v2 is turned OFF – Turn ON Battery depleted – Recharge the battery

	Reading Target is not over text – Relocate over text
White screen with no image	Reading Target is not over text – Relocate over text
Dim screen	Screen brightness too low. Increase by following instructions on P14
Poor image quality	Dirt on screen – Clean screen with soft dry cloth Dirt on camera – Clean camera with soft dry cloth HandyReader HD v2 is not flat on reading material - Relocate
Text too small	Magnification too low - Use Zoom In Button
Text too large	Magnification too high - Use Zoom Out Button. To reduce further, open Flip-Out Stand (see page 17)
No image on TV screen	Wrong AV input selected – Refer to TV user manual Poor connection – Carefully check all connections HandyReader HD v2 is turned OFF – Turn ON Battery depleted – Recharge the battery

	Reading Target is not on text – Relocate over text
There is a line across my screen	The reading line is turned on. Press and hold the Freeze button to cycle the reading line's position until it disappears

Warranty

VisionAid International Ltd warrants the HandyReader HD v2, when purchased new, to be free from defects in material and workmanship and will repair or replace, at their discretion, any equipment which exhibits such defects; provided that the equipment has been operated under the correct conditions and has not been tampered with by any persons not authorised by VisionAid International Ltd or its agents. This warranty shall be voided in the event of damage or abuse to the HandyReader HD v2 caused, in the opinion of VisionAid International Ltd or its agents, by general wear and tear, abuse, neglect, failure to observe stated precautions or by dropping the unit.

Batteries and backlighting are warranted for failure within a period of 6 months. Pixel failures, cracks, scratches or similar damage to the High Contrast

Display are specifically excluded from warranty. Non-electrical accessories are also specifically excluded from warranty.

In no event shall VisionAid International Ltd or its agents be liable for special, indirect, incidental or consequential damages; the original user's remedies being limited to repair or replacement.

VisionAid International Ltd makes no other or further warranty, express or implied, including and warranty of fitness for a specific purpose or warranty of merchantability.

This warranty is valid for a period of 2 years effective from the date of delivery to the customer.

Support and Assistance

For support and assistance please contact:

Your Local Distributor

Manufacturer

VisionAid International Ltd
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Spalding Common
Spalding, Lincolnshire
PE11 3AU, United Kingdom



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