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# Clover video magnifier (HC101 and HC102)

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Please retain these instructions for future reference. These instructions are also available in other formats.

## Special warning

Before using Clover for the first time, you must charge its battery. Refer to the Battery and Charging sections for more details.

Always operate the unit in a place where the temperature is between 10 degrees and 35 degrees Centigrade (50 degrees and 95 degrees Fahrenheit).

Keep the unit away from wet areas, rain, and other sources of liquids. Do not submerge the unit.

Do not attempt to repair the unit. Any unauthorised attempt will void the product warranty. Contact your distributor to service.

Only use the supplied power adapter and battery.

## General description

The Clover 4 and 5 are portable, handheld video magnifiers, The Clover 4 has a 4.3 inch widescreen LCD display and the Clover 5 has a five inch display. They provide sharp, clear images that are easily viewed in various magnification levels and colour modes.

The unit allows you to put the magnifier on or close to the object for continuous zoom or you can freeze the image for further viewing. It also has an integrated fold-away writing stand. The Clover is ideal for viewing labels, books, newspapers and more.

## Items supplied with the Clover 4 and Clover 5

User manual

Power adaptor

Cleaning cloth

Carry case

Battery

USB cable (for charging and use with the television)

## Orientation

Both the CLOVER 4 and CLOVER 5 models have the same button layout.

Place the unit in front of you so that the smooth LCD screen is facing up towards you and the control buttons are on the right hand side.

### Front

On the front of the unit is the LCD display and a series of buttons which sit to the right of the display.

Starting from the button at the top and moving downwards the buttons are:

* zoom in (indicated by a plus sign)
* colour mode up (indicated by an upwards pointing arrow) and colour mode down (indicated by a downwards pointing arrow)
* zoom out (indicated by a minus sign).

### Back

Turn the unit over so that the LCD screen is facing downwards. On the back of the unit you will find the battery compartment, camera and LED lights and an L shaped writing stand.

### Top edge

Place the unit so that the screen is facing towards you and buttons are on the right hand side.

Along the top edge and starting from left to right you will find:

* power LED indicator
* power button
* speaker
* freeze picture button.

### Bottom edge

On the bottom edge are two sockets: a micro USB and circular socket for connecting the clover to a television.

## Using the product

### Battery and Charging

#### Battery installation

* Turn the unit over so that the LCD screen is facing down.
* Press the arrow icon on the battery cover and slide outward to open the battery cover.
* Insert the battery in to the correct position in the battery slot (some sighted assistance maybe required).
* Replace the battery cover and slide back into place

#### Charging the battery

* Connect the supplied USB cable to the power adapter.
* Connect the supplied USB cable to the micro USB port on the unit, which can be found on the bottom edge.
* Plug the power adapter into a suitable AC outlet and start charging.

#### The status of Power LED indicator

If you are charging when the unit is switched off, the power LED will be green, and will then turn off automatically when it’s fully charged. A full charge will take about five hours, and will support the unit for about four and a half hours on the Clover 4 and four hours on the Clover 5 for continuous use.

When the unit is on, the power LED will be green when using the power adaptor.

When the unit is on and the power adaptor is not connected, the power LED will be green when the battery is high and will be red when the battery is low. When the red light starts to flash, you will need to charge the battery.

You can also check the battery status by pressing the power button.

## Writing stand

The writing stand is a small L shaped device on the back of the unit. Lift this open from the straight edge and rest on the table. You will now be able to write underneath the camera.

## Power button

Press and hold the power button for three seconds to turn on the unit and press and hold for another three seconds to turn off the unit.

Press the power button to check the current status of battery capacity, colour mode, freeze mode and beep.

## Beep Control

Press and hold the freeze button for three seconds to turn on/off the beep.

### Beep Type:

* unit on/off beep
* button beep
* threshold beep
* low battery beep.

## Magnification

Press the zoom in button on the front (indicated by a plus sign) to increase magnification, and hold it in to continuously increase magnification.

Press the zoom out button on the front (indicated by a minus sign) to decrease magnification, and hold it in to continuously decrease magnification.

Holding the zoom in button and the zoom out button at the same time for five seconds will switch between the normal magnification mode (factory default) and the extended magnification mode.

For the Clover 4:

Normal magnification mode: 3.5x – 16x

Extend magnification mode: 2.5x – 24x

For the Clover 5:

Normal magnification mode: 4x – 20x

Extend magnification mode: 3x – 30x

## Colour Mode

A colour mode is a pre-defined colour combination. Full colour mode is suitable for picture and map viewing, and the enhanced contrast mode is combined with different foreground and background colours to help you to read more clearly.

Press the colour mode down button (indicated with a downwards pointing arrow) to cycle in one direction through the colour combination list.

Press the colour mode up button (indicated with an upwards pointing arrow) to cycle in the other direction through the colour combination list.

Press both the colour mode up and down buttons at the same time to switch quickly between full colour mode and the current enhanced contrast mode.

Holding the colour mode up button and the colour mode down button at the same time for five seconds will switch between the simplified colour combination list and the integrated colour combination list (factory default).

The simplified colour combination list (six modes):

* full colour
* white on black
* black on white
* yellow on black
* white on blue
* yellow on blue.

The integrated colour combination list (20 modes):

* full colour
* white on black
* black on white
* yellow on black
* black on yellow
* white on blue
* blue on white
* yellow on blue
* blue on yellow
* green on black
* black on green
* violet on black
* black on violet
* blue on black
* black on blue
* white on green
* green on white
* white on red
* red on white
* red on black.

## Brightness

Adjust the display brightness for full colour mode and enhanced contrast mode. Factory default value will be highlighted green.

Press the power button and zoom in button together to increase the brightness.

Press the power button and zoom out button together to decrease the brightness.

## Two-colour tuning

By fine adjusting the combination of foreground and background colour in enhanced contrast mode, the tuning will improve the adaptability for viewing different materials. Factory default value will be highlighted green.

Press the power button and colour mode up button for more background colour.

Press the power button and colour mode down button for more foreground colour.

## Lighting

Press the power & freeze buttons to turn on/off the LED Light.

## Freeze

Freezing an image on the LCD screen can be useful for further reading, and further zooming in or zooming out or changing the colour mode can be useful for a better view. The brightness cannot be adjusted when freezing and image.

Press the Freeze button to lock the active image. Press the Freeze button again to release.

When you increase the magnification of the locked image, you can use the following button combinations to navigate:

* power & colour mode up to navigate upward
* power & colour mode down to navigate downward
* power & zoom in to navigate left
* power & zoom out to navigate right.

## TV Connection

You can connect the unit to your TV for better and larger viewing.

When plugging in the TV Cable to the TV port on the unit, you need to select the appropriate TV output mode (PAL or NTSC mode).

Press the zoom in or zoom out button to choose PAL or NTSC, then press the freeze button to confirm your selection. The image will be shown on the TV

After unplugging the TV cable, the image will automatically return to the LCD screen of the unit.

## Memory

The unit will memorise the most recent settings such as colour mode and magnification and use them when you next turn the unit on.

## Auto power saving

If there is no operation of the unit for over three minutes, the unit will turn off automatically to save power.

## Restore

Hold the freeze button and the zoom out button at the same time for five seconds to reset to the default factory settings. Auto power will be off after reset.

## Technical Specification

## Clover 4

Display: 4.3 inch wide screen LCD

Size: <=152\*80\*22mm

Weight: <180 grams (Battery included)

Colour Mode: Simplified six modes; Integrated 20 modes

Magnification: Normal 3.5x – 16x; Extend 2.5x – 24x

Battery: Rechargeable & detachable Li battery; 4.5 hours continuous use; charges in approximately five hours

Power Adapter: Micro USB port; input: 110-240V; output: 5V/1A.

## Clover 5

Display: 5 inch wide screen LCD

Size: <=152\*80\*22mm

Weight: <210 grams (Battery included)

Colour Mode: Simplified six modes; Integrated 20 modes

Magnification: Normal 4x – 20x; Extend 3x – 30x

Battery: Rechargeable & detachable Li battery; four hours continuous use; charges in approximately five hours

Power Adapter: Micro USB port; input: 110-240V; output: 5V/1A.

## Hints and Tips

### Troubleshooting

#### The unit does not turn on

Connect to the power adapter

Charge the battery

Reinstall the battery

## Black screen or White screen

If the unit is sitting on a flat pure surface, the screen may be black or white, Lift the unit off to ensure change happens.

Adjust the magnification

Adjust the colour mode

When the unit is connected to TV, the screen is black

Restart the unit

Reinstall the battery

## The image does not change

If the unit enter the freeze mode, the image will not change

Press power button to check the current status

Restart the unit

Reinstall the battery

## Smudges or blemishes on the screen

Adjust brightness

Clean the LCD screen and camera

Please contact your local distributor if problem is not solved.

# How to contact RNIB

Phone: 0303 123 9999

Email: [shop@rnib.org.uk](mailto:shop@rnib.org.uk)

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Online Shop: shop.rnib.org.uk

Email for international customers: [exports@rnib.org.uk](mailto:exports@rnib.org.uk)

**RNIB Technology Team**

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These are special order products so cannot be returned unless faulty. For repairs contact RNIB first to help us deal efficiently with your product return.

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