

eMag 43 HD

Instructions for use
for the electronic magnifier

EN

eMag 43 HD Handheld video magnifier

Instructions for use

Congratulations on purchasing your eMag 43 HD. This handheld video magnifier allows you to magnify texts and objects from 1.6 to 14 times the original size. The eMag 43 HD features a 4.3" (10.9 cm) LCD widescreen (16:9). We hope you enjoy using this high-quality device. The information and data contained in this document are subject to change without notice. No part of this document may be reproduced or transmitted in any form or by any means, electronic or mechanical, or for any purpose, without the express written approval of A. SCHWEIZER GmbH.

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Service and support

If you require technical support with your eMag 43 HD, please contact the dealer who sold you the visual aid. It is recommended you first refer to "Troubleshooting" (on page 30).

Note: The eMag 43 HD contains no user serviceable components. Any unauthorised attempt to service or replace internal components will render the warranty null and void.

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eMag 43 HD – overview

Intended use

This electrical device serves to electronically enlarge objects or for reading printed materials in everyday use.

Clinical Use

This electrical device contributes significantly to daily tasks, facilitates independence, increases productivity and improves self-esteem.

Intended Users

This device is for people with visual impairments or for others who would like to view text, pictures or objects enlarged.

Intended Usage Environment

This device is intended for use at home, at the office and out and about. It is for enlarging and improving pictures and texts for users.

Performance Characteristics

The eMag 43 HD is supplied with four rechargeable AAA NiMH batteries (1000 mAh) that must be charged before first use. Charging time is approx. 2 hours. You can also use 4 AAA single-use alkaline batteries to power the unit.

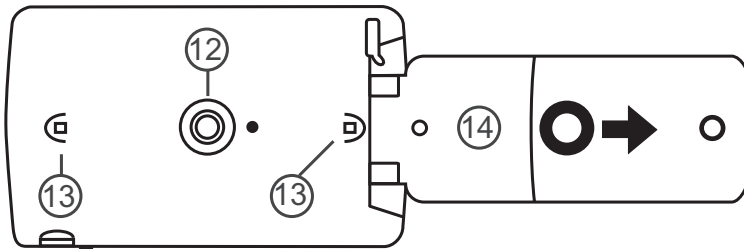
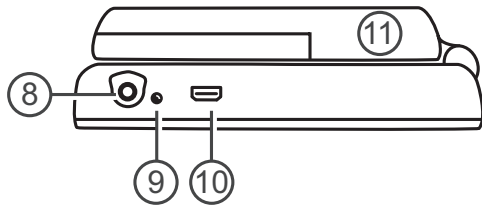
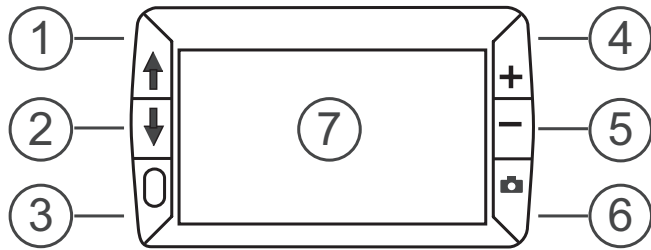
The eMag 43 HD is a portable video magnifier that can magnify an object from **1.6 to 14 times its original size**. The integrated HD camera provides sharp **HD quality** images that are easily viewed on its full-colour, **4.3" LCD screen**. The eMag 43 HD supports 5 default colour modes and 15 additional **contrast colour modes** that can be easily activated.

The eMag 43 HD has a **folding handle** that allows you to hold the magnifier close to an item. Press the magnification button for continuous zoom (1.6x to 14x with the handle opened or 4x to 11x with the handle folded closed), and then capture the image on the screen. If you want, you can then adjust the **magnification** as required. This is ideal for reading clothing labels, prescriptions, price tags, receipts, business cards etc.

The eMag 43 HD can **save** and store up to **80 images** that can easily be transferred to a computer via a USB connection.

In addition, the eMag 43 HD has a **reading line and reading mask** feature that you can turn on and use to quickly locate and maintain your place while viewing an image or reading text on the LCD screen.


eMag 43 HD Components

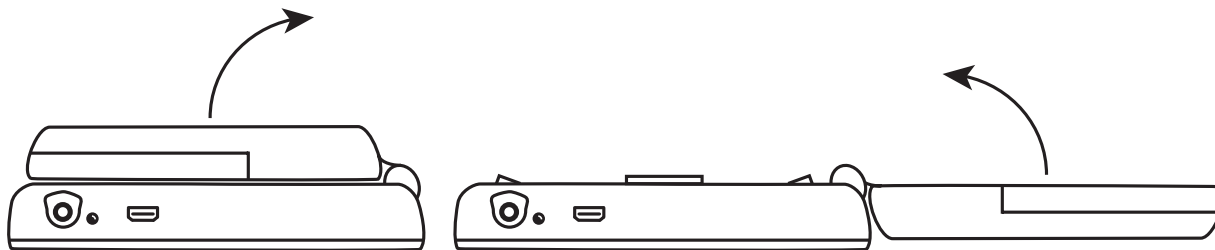


- 1 Colour mode scroll up (blue)
- 2 Colour mode scroll down (blue)
- 3 Power on/off (green/yellow)
- 4 Increase magnification (yellow)
- 5 Decrease magnification (yellow)
- 6 Capture image (red)
- 7 LCD screen
- 8 Power adapter port
- 9 Battery status LED
- 10 USB port (micro USB)
- 11 Handle and battery compartment in closed position
- 12 HD camera
- 13 LED lights
- 14 Handle and battery compartment in opened position

Quick start

The following steps will show you how to quickly set up and use the eMag 43 HD for the first time.

1. Make sure the **unit is charged** (Refer to page 11).
2. **Turn on the eMag 43 HD** by pressing the green-yellow button  (Refer to page 13).
3. Proceed with one of the following options:
 - **Unfold the handle** in order to hold and use the eMag 43 HD like a magnifying glass. This is useful if you need to magnify and read labels or small print on tins, packaging, medication etc.
 - Place the eMag 43 HD **with the handle folded** closed on a flat document, such as a newspaper, magazine, bill, letter etc.



4. Adjust the **magnification** using the yellow buttons (**+** or **-**). -> Refer to page 16.
5. Select a **colour mode** (**↑** or **↓**) for contrasting colours that best suit your viewing needs (Refer to pages 15-18).
6. **Capture the image** on the LCD screen , so you can take your time to view the details in the image (Refer to page 19).
7. **Save the image or return to live view**  (Refer to page 23).

As soon as you feel comfortable with the basic functions of the eMag 43 HD, try out the following **advanced functions**:

- Turn the **LED reading lights on and off**, to avoid glare and reflections when looking at photos or glossy magazines (Refer to page 19).
- Use the **reading line or reading mask** to help you maintain your place in the text you are reading (Refer to pages 20/21).
- You can **save, view and delete images** stored on the eMag 43 HD (Refer to pages 23/24).
- For **additional memory space**, copy the images from the eMag 43 HD to your computer (Refer to page 25).

Battery status LED

Green solid: Batteries are charged, power adapter connected.

Green flashing: Batteries are charging, power adapter connected.

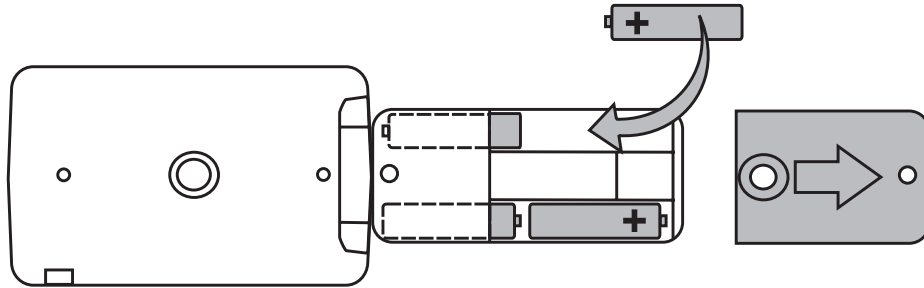
Red flashing: Low battery status.

Red solid: Error: disconnect power adapter, wait a few seconds and then reconnect it.

No LED: Batteries are charged, the power adapter is not plugged in or the eMag 43 HD is off.

Inserting single-use / rechargeable batteries

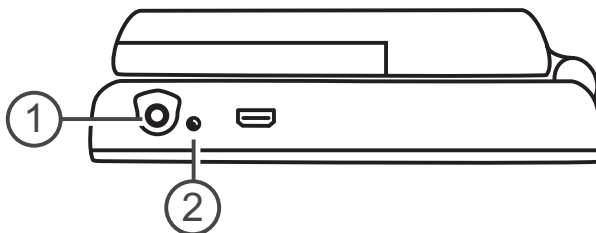
1. Unfold the handle completely and remove the battery cover by sliding it in the direction of the arrow.
2. Insert the single-use/rechargeable batteries, replace the battery cover, and close the handle.
Make sure that batteries are inserted using the correct polarity as shown in the figure below:



Caution: Do not use rechargeable batteries (NiMH) together with single-use alkaline batteries. When replacing batteries, make sure to use the same type. Never use old, new and different Ah batteries at the same time. Failure to follow this precaution can result in battery failure or leakage of battery fluid. If batteries are replaced by the incorrect type, there is a risk of explosion. Do not use batteries that specify a maximum charging current below 250 mA.

Charging rechargeable batteries

1. Plug one end of the power adapter into the eMag 43 HD and the other end into a wall outlet (1).
2. The battery status LED flashes green (2) to show that the rechargeable batteries (NiMH) are charging.
For more information on the **Battery status LED** (Refer to page 9).



3. As soon as the batteries are fully charged, the LED stops flashing and remains green. Unplug the eMag 43 HD power adapter. The battery status LED turns off.
4. You can now use the eMag 43 HD continuously for approx. 2 hours. When the batteries are running low, the battery status LED flashes red. Connect the power adapter and plug it in to recharge the rechargeable batteries or insert new batteries.

Note: If you wish to replace the supplied rechargeable batteries, replace all four at the same time with **1000 mAh NiMH rechargeable batteries** with a MAXIMUM charging current above 250 mA.

Description of buttons

On/Off (green/yellow): 


Press once to switch on,
press again to switch off.

Magnification (yellow): 

Press and HOLD for continuous zoom magnification with live view.
When viewing captured images, press and release to incrementally
increase or decrease magnification.


Colour mode (blue): 

Press to scroll through the default colour modes and 15 additional colour
combinations. For a complete overview (Refer to pages 16/17).

Capture image (red): 

Press to capture the current image. Press the button again to turn off the
“Capture image“ mode and to return to live view.

Turning on/off the eMag 43 HD

1. Press the green-yellow button  to turn on the eMag 43 HD. After a few seconds the icon for the battery status is displayed on the screen.
2. Press the button again to turn off the eMag 43 HD.

Note: If the eMag 43 HD is left on, but no buttons are pressed, it will turn off automatically after 30 minutes – this feature extends battery life.

Functions

Magnifying live images

When viewing live images, you can use the unit with the handle extended for continuous zoom magnification from 1.6 to 14 times or with the handle folded closed for magnification from 4 to 11 times.

- Press and HOLD the yellow PLUS button **+** to increase magnification.
- Press and HOLD the yellow MINUS button **-** to decrease magnification.

Magnifying captured and saved images

You can capture an image on the LCD display and save it. When viewing captured or saved images, you can zoom in and out in incremental steps by pressing the yellow buttons (**+** or **-**).

For steps to capture an image, refer to **Capturing an image** on page 19.

To access saved images, see **Saving and deleting an image** on page 23.

Changing colour modes

Colour modes are preset colour combinations (for example, yellow text on a blue background) that you can individually select when using the eMag 43 HD.

The eMag 43 HD offers 5 default colour modes and 15 additional colour combinations. For a complete list, refer to **Colour modes** on pages 17/18.

Press the blue arrow buttons (↑ or ↓) to change the current colour combination on the LCD screen. The blue UP arrow button ↑ scrolls in one direction through the list of colour combinations while the blue DOWN arrow button ↓ scrolls through the list in the other direction.

Switching between last colour mode used and true full colour





The eMag 43 HD allows you to switch quickly and comfortably between the last colour mode used and full colour – or vice versa. This shortcut is handy when viewing a live image (for example, when holding and reading a document) and using a colour mode that provides the best contrast for you. If you need to move the eMag 43 HD to a different part of the document, it may be easier for you to switch to full colour mode, move to the new position in the document and then return to the selected colour mode to continue reading. To do this, proceed as follows:

- Press and HOLD the green-yellow button  and press the blue DOWN arrow ↓. The screen switches from one mode to the other.
- To switch back, repeat the same button sequence.

Adding/removing colour modes

The eMag 43 HD has 5 default colour modes. You can also activate and choose from a variety of 15 other colour modes. As soon as a colour mode is available, you can easily scroll to it using the blue arrow buttons (↑ or ↓).

To add or remove other colour modes:

1. Press and HOLD the green-yellow button  and then press the blue UP arrow button ↑ to access the colour mode selection menu.
The tick in the checkbox indicates that the current colour mode is activated.
2. To delete the current colour mode, press the blue DOWN arrow ↓ while STILL holding DOWN the green-yellow button . This button sequence clears the checkbox .
3. To select the next colour mode, press the blue UP arrow ↑ while STILL holding DOWN the green-yellow button .
 - If the checkbox is selected , the colour mode is activated.
 - If the checkbox is empty , the colour mode is deactivated.
4. To activate or deactivate a colour mode, press the blue DOWN arrow ↓ while still holding the green-yellow button  to select or clear the checkbox.
5. Repeat steps 3 and 4 to add or remove other colour modes.
6. When you have finished loading colour modes, release all buttons. Any colour mode changes made will be saved, and the device will return to normal operating mode.

Restoring default colour modes

If you have added or removed optional colour modes, you can always reset the eMag 43 HD to its 5 default colour modes.

Press and HOLD the green/yellow button  and the blue UP arrow  simultaneously for 15 seconds.

Colour modes

There are 5 default colour modes and 15 optional colour modes that you can activate yourself.

Default colour modes





1. True full colour (always available, cannot be deactivated)
2. White on Black
3. Black on White
4. Yellow on Blue
5. Yellow on Black


Optional Colour Modes

- Black on Yellow
- Green on Black
- Black on Green
- White on Blue
- Black on Blue
- Blue on Black
- Blue on Yellow
- Red on Black
- Black on Red
- Magenta on Black
- Black on Magenta
- Purple on Black
- Black on Purple
- Red on White
- Black on Light Blue

Capturing an image





Capturing an image on the LCD screen can be useful for reading labels on objects or supermarket shelves. By holding the eMag 43 HD close to an object and capturing the image, you can then hold the eMag 43 HD closer to you to read the information.

1. Press the red button  to capture an image.
If desired, press the yellow PLUS button  to magnify the image or the yellow MINUS button  to reduce the size of the image.
2. Press the red button  again to exit the image capturing mode and return to live view.

Note: To save a captured image, press and HOLD the red button  for 3 seconds.
Refer to **Saving and deleting an image** on page 23 for further information.

Switching off LED lights


When you power on the eMag 43 HD, the LED lights also switch on. To avoid glare when looking at reflective surfaces, you can switch off the LED lights:

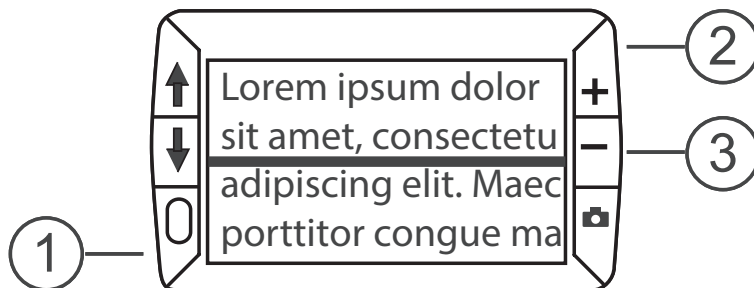
1. Press and HOLD the green-yellow button  and then press the red button . The LED lights turn off.
2. To turn the LED lights back on, press and HOLD the green-yellow button  and then press the red button .


Using reading line or reading mask

The reading line is a horizontal line which appears on the screen. The reading mask blocks part of the screen so that only a horizontal section of the screen remains visible. Use these features to help you locate and maintain your place while viewing an image. When using the button sequence described below, the eMag 43 HD shows first the reading line, then the reading mask and then neither the reading line nor the reading mask.


Displaying the reading Line

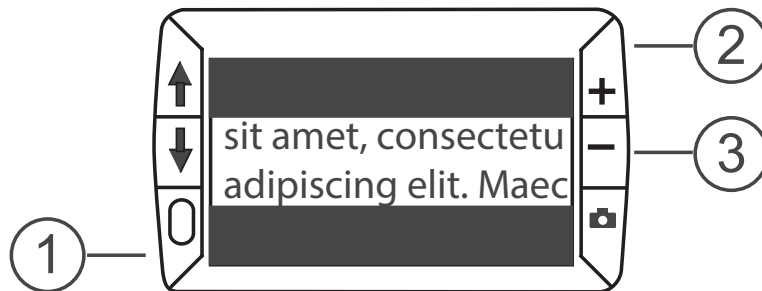
1. Press and HOLD the green-yellow button  (1) and then press both yellow buttons (**+** and **-** (2 and 3)). The reading line appears on the screen as shown below:





2. Press and HOLD the green-yellow button  (1) and then press the yellow PLUS button **+** (2) or the yellow MINUS button **-** (3) to move the reading line up or down.

Displaying the reading mask

1. Press and HOLD the green-yellow button  (1) and then press both yellow buttons (**+** and **-** (2 and 3)) again to remove the reading line and to display the reading mask on the screen as shown below:






2. Press and HOLD the green-yellow button  (1) and then press the yellow PLUS button **+** (2) or the yellow MINUS button **-** (3), to increase or decrease the size of the window between the bars on the screen.
3. To remove the reading mask from the screen, press and HOLD the green-yellow button  (1) and then press and HOLD both yellow buttons (**+** and **-** (2 and 3)).

Storage mode


Storage mode allows you to store up to 80 images. When you first store an image, it is saved with the currently displayed magnification and colour settings. When **viewing a saved image** you can **change the magnification level** (Refer to page 14).

Storage Mode Icons




- Save:**  Press the 2 yellow buttons (+ and -) simultaneously to activate the checkbox.
- Delete:**  Press the 2 yellow buttons (+ and -) simultaneously to clear the checkbox.
- Memory Full:**  Indicates that the maximum number of images has been stored on the eMag 43 HD. You will need to select one or more images for deletion before you can save the current image.

Saving and deleting an image



After capturing an image on the screen (page 19) follow the steps below to **save** it:




1. Press and HOLD the red button  for 6 seconds to enter Storage mode.
2. The "Save" checkbox is automatically selected on the screen. This indicates that the image will be saved after exiting the Storage mode and returning to live view.



Deleting an image in Storage mode


1. Press and HOLD both yellow buttons ( and ) to clear the checkbox . The image will be deleted when you exit Storage mode.
2. Press and HOLD the red button  for 3 seconds to exit Storage mode and to return to live view.

Viewing saved images


The eMag 43 HD can store up to 80 images. You can easily scroll through your saved images using the blue arrow buttons ( and .






1. Press and HOLD the red button  for 6 seconds to enter Overview mode.
 - To scroll forwards through the saved images, press the blue UP arrow .
 - To scroll backwards through the saved images, press the blue DOWN arrow .

Note: To scroll quickly through the images, press and HOLD one of the blue arrow buttons ( or ). Release the button to stop scrolling.

2. Press and HOLD the red button  for approx. 3 seconds to exit this view and return to live view.

Saving and deleting an image when memory is full

The eMag 43 HD can save up to 80 images. If you try to save a further image, the Memory full icon  appears on the screen. To save a further image, you first need to delete one or more saved images from the memory.

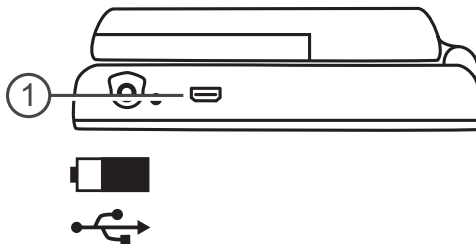
1. Press the blue UP arrow  or the blue DOWN arrow  until you reach the image you wish to delete.
2. Press both yellow buttons ( and ) to clear the checkbox .
3. Press and HOLD the red button  for 3 seconds to exit Storage Mode. The new image is saved and all deactivated images are deleted.

Note: To free space on the eMag 43 HD, you can copy images to a computer. See also **Transferring images to a computer via USB cable** on page 25.

Transferring images to a computer via USB cable

Images stored on the eMag 43 HD can be transferred to a computer using the supplied USB cable.

1. Connect the USB cable supplied to the eMag 43 HD (1) and the computer.



2. When connected,

- the USB and battery icons appear briefly on the LCD screen.
 - the battery icon indicates the current battery status. The eMag 43 HD does not charge and no images are displayed on the screen while it is connected to the computer via USB.
 - the eMag 43 HD shows up as an external device in Explorer (Windows) or Finder (Mac).
3. Open the “eMag 43 HD DCIM” folder and use the “drag and drop” method to move or copy one or more images to a folder or desktop on your computer. The images are named and numbered in the order saved, for example IMG_0001.bmp, IMG_002.bmp etc.
4. Once you have finished transferring the files, make sure you disconnect the eMag 43 HD correctly from the computer.

Note: To safely disconnect the eMag 43 HD and protect your data, follow the prompts from your operating system for removing external USB devices.

Transferring images to the eMag 43 HD via USB cable

Any image transferred from the eMag 43 HD to your computer can be easily transferred back to the eMag 43 HD.

Note: Only images saved by the eMag 43 HD can be copied back to the eMag 43 HD.

1. Make sure the eMag 43 HD is connected to your computer using the supplied USB cable.
2. Locate the images on your computer using Explorer (Windows) or Finder (Mac).
3. Select the image and drag it to the “eMag 43 HD DCIM” folder.
4. Once you have finished transferring the files, make sure you disconnect the eMag 43 HD correctly from the computer.

Note: To safely disconnect the eMag 43 HD and protect your data, follow the prompts from your operating system for removing external USB devices.

Displaying a slide show





You can create a looped slide show displaying the images saved on the eMag 43 HD. Each image will be displayed for about 5 seconds. The order of the displayed images is based on their file names, for example, IMG_0001.bmp, IMG_0002.bmp, etc.

To rearrange the playback order, you can transfer the images to your computer, rename the images in your preferred order, and then transfer them back to the eMag 43 HD. (The file names should not exceed 8 characters followed by the BMP file extension).

For more information on moving files from the eMag 43 HD to your computer, refer to **Transferring images** pages 25/26.

Note: When in slide show mode, the eMag 43 HD does not automatically power off after 30 minutes.

To **start a slide show**, proceed as follows:

1. Press and HOLD the red button  for approx. 6 seconds to enter Review mode.
2. Press and HOLD the green-yellow button  and then press the blue UP arrow .
- The first image stored (based on the file name) appears for about 5 seconds on the LCD screen, followed by the second image, the third, and so on.
3. Press and HOLD the red button  for approx. 3 seconds to exit the slide show mode and return to live view.

Troubleshooting

Problem	Solution
The device does not power on.	<ul style="list-style-type: none">▪ Press the green-yellow power button. If the eMag 43 HD does not power on, charge the rechargeable batteries or replace the single-use batteries. Note: The batteries will not charge while the eMag 43 HD is connected to the USB port.▪ Make sure the batteries are inserted correctly (page 10).
The screen is blank.	<ul style="list-style-type: none">▪ When the eMag 43 HD is connected to the computer via USB, the screen is blank.▪ Turn on the LED lights.▪ Power off the eMag 43 HD and then on again.▪ Make sure the item to be magnified is positioned correctly under the camera window.▪ Press the yellow magnification button to run through the magnification levels.▪ Press the blue arrow buttons to view the various colour combinations.
The battery status LED is flashing red.	<ul style="list-style-type: none">▪ Charge the rechargeable NiMH batteries or replace the AAA single-use alkaline batteries. (Do not mix battery chemistries.)▪ When replacing rechargeable batteries, use only 1000 mAh NiMH rechargeable batteries.
The battery status LED is solid red although the power adapter is connected to the eMag 43 HD.	<ul style="list-style-type: none">▪ A battery error has occurred. Unplug the power adapter from the eMag 43 HD and plug it in again.

Problem	Solution
<p>The battery status LED is solid red although the power adapter is connected to the eMag 43 HD.</p>	<ul style="list-style-type: none"> ▪ Charge the NiMH batteries for at least 2 hours or replace them with AAA single-use alkaline batteries. Do not charge the single-use alkaline batteries. ▪ If the problem continues, disconnect the power adapter and call your eMag dealer.
<p>The battery status LED does not flash green, although the power adapter is connected and plugged into a wall socket.</p>	<ul style="list-style-type: none"> ▪ Ensure that the barrel end of the power adapter is firmly plugged into the device's power port. ▪ Check whether the power outlet is functioning properly. If the outlet is connected to a wall switch, make sure the switch is set to ON.
<p>The NiMH batteries are not charging.</p>	<ul style="list-style-type: none"> ▪ Make sure the NiMH batteries are inserted correctly (page 10). (Do not replace single-use/rechargeable batteries while the power adapter is connected.) ▪ Use the supplied power adapter to charge the eMag 43 HD. Please note that a USB port does not supply enough power to charge batteries. ▪ Ensure that the barrel end of the power adapter is firmly plugged into the device's power port. ▪ Check whether the power outlet is functioning properly. If the outlet is connected to a wall switch, make sure the switch is set to ON. ▪ Some rechargeable batteries have low charge rates and specify a "MAX Charging Current". Do NOT use rechargeable batteries that specify a MAX Charging Current below 250 mA.

Problem	Solution
The screen is dirty or smudged.	Clean the LCD Screen as specified in Cleaning the eMag 43 HD LCD screen (page 32).
The text is too small or too large to read.	Press the yellow magnification buttons to increase or decrease magnification. For live images, press and HOLD the magnification buttons for continuous zoom magnification. For captured or saved images, press the yellow buttons to zoom in or out one step at a time.
LED lights produce glare on reflective surfaces.	Press and HOLD the green-yellow power button and then press the red button (capture image) to turn off the LED lights.
The eMag 43 HD powers off after 30 minutes.	This is expected behaviour. The eMag 43 HD powers off automatically if no buttons are pressed for 30 minutes. This extends battery life.

Technical data

LCD Screen:	4.3 inches (109 mm) widescreen
Dimensions:	126 mm (height) x 75 mm (width) x 37 mm (depth)
Weight:	228 g
Colour modes:	5 default colour modes (true full colour, white on black, black on white, yellow on blue, yellow on black) as well as 15 additional colour modes
Magnification:	1.6 x to 14 x, continuous zoom
Maximum number of saved images:	up to 80 bitmap (BMP) images
Camera:	HD camera module
Batteries:	4 rechargeable AAA NiMH batteries (1000 mAh), approx. 2 hours continuous use; charging time approx. 2 hours or 4 AAA single-use alkaline batteries

Note: Only use the supplied power adapter to charge the batteries of the eMag 43 HD.



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Class 1 LED Product



RoHS CE

Safety and maintenance

To keep the device in good condition and to ensure safe usage, observe the following guidelines:

- Do not attempt to repair the eMag 43 HD yourself or open the housing. This product contains no user serviceable parts. Any unauthorised attempt to service or replace internal components will render the warranty null and void.
- Keep the eMag 43 HD away from wet areas, rain and other sources of moisture. Do not immerse the eMag 43 HD in water.
- Always operate the eMag 43 HD at an ambient temperature between 10° and 35° C.
- Never store the eMag 43 HD in places subject to temperature extremes such as a parked car.
- Do not force any connector into the power port of the eMag 43 HD. The power connector fits easily into the port.

Cleaning the eMag 43 HD housing

Make sure the eMag 43 HD is unplugged. Use a slightly dampened, soft, clean cloth with water or a mild detergent. Do not use alcohol, solvents, abrasives or aerosol sprays.

Cleaning the eMag 43 HD LCD screen

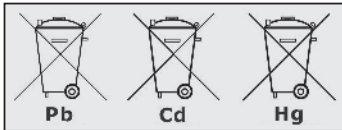
- Power off and unplug the eMag 43 HD before cleaning the LCD screen.
- Always use a clean microfibre cloth.
- Very gently wipe the cloth across the screen. Do not exert pressure on the cloth or the LCD screen.
- If you use a liquid detergent, it must be suitable for use on LCD screens. You can also use distilled water, isopropyl alcohol or vinegar mixed with water at a concentration of no more than 10 percent vinegar. Please note that tap or mineral water may cause spotting on the screen. Do not leave any liquid on the screen. Repeat this procedure for any marks that are hard to remove.
- NEVER spray detergent directly on the LCD screen.
- NEVER use a cleanser that contains acetone, ethyl alcohol, ethyl acid, ammonia or methyl chloride.
- NEVER use paper towels to clean the LCD screen.

Battery safety instructions

We place our batteries on the market in line with legal requirements. Please read the points below for the safe removal and disposal of our batteries:

- Our product contains a rechargeable battery.
- To prevent harmful effects to the environment and health, used batteries must be disposed of properly at recycling centres or returned to the point of sale. Returning batteries is required by law and free of charge for you.
- Batteries should only be returned in a fully discharged state. The poles of lithium-ion batteries must be insulated with adhesive tape.
- Valuable raw materials such as zinc, iron, nickel and so on can be recovered by recycling used batteries.
- The “crossed out wheeled bin” symbol indicates that disposal of used batteries along with normal refuse is illegal.

The additional specification of the chemical symbols for lead (Pb), cadmium (Cd) and mercury (Hg) indicates that these materials are contained in the batteries in legally permissible quantities.



Symbol guide



Item no



Batch number



Serial number



Medical device



Authorised representative



Manufacture



Manufacture date



Barcode



Fragile, handle with care



Protect from moisture



Warning



Consult instructions for use



Disposal information

Power: --- 5 V, 2,4A

Power supply



Declaration of conformity



CE marking of conformity

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RoHS CE



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