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Provozní návod
サービスマニュアル

smartlux **DIGITAL**



CE

 **ESCHENBACH**





English

Dear customer,

we congratulate you on the purchase of this electronic magnifying glass for hand-held or contact use - a quality product made by Eschenbach - and we hope you enjoy using the device on a daily basis

As the market leader for magnifying glasses and reading glasses, we at Eschenbach are able to look back on many years of experience which are mirrored in the quality, handling and design of our products.

Before initial use

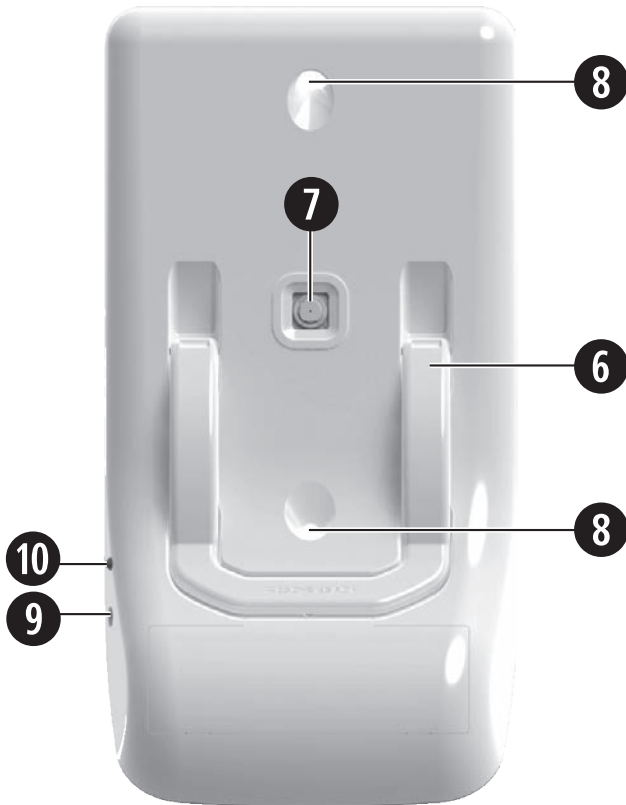
Before using the device for the first time, please read the entire manual carefully so that you can get to know all the functions of the device.



Safety instructions



- ▶ Risk of dazzling and injury! Do not look at the light source on the underside of the housing for long periods! Risk group 1 in accordance with EN 62471:2008. Exposure hazard value (EHV): 2200 seconds at 800 nm. The free group limit values are complied with at a distance of 1.8 m. Retina hazard due to blue light 400 nm to 780 nm.
- ▶ Do not allow children to handle electronic devices without supervision.
- ▶ Only charge the device with the mains adapter supplied!
- ▶ Check the device and the mains adapter with power cable for visible damage. If the device, the mains adapter or its cable are damaged, disconnect the mains adapter from the mains power immediately. Ask a qualified specialist to check the product before you use it again.
- ▶ Never open the smartlux DIGITAL housing. There are no serviceable parts whatsoever inside. The guarantee will be void if the device is opened.
- ▶ Never expose the smartlux DIGITAL to moisture.
- ▶ Protect the smartlux DIGITAL from knocks or blows and excessive heat! Never place the smartlux DIGITAL on heating devices or in direct sunlight!
- ▶ Ensure that other people, particularly children, are aware of these risks!





Items supplied

- ▶ smartlux DIGITAL electronic reading device
- ▶ Case with cleaning cloth
- ▶ Mains cable (with plugs for EU, GB, US, AUS)
- ▶ Operating Instructions

Function elements

1. LCD (Liquid Crystal Display)
2. Photo button
 - Freeze/save the image displayed on the screen
3. Magnifying button
 - Adjusting the magnification
 - Adjusting the display brightness
4. Contrast button
 - Selection of display modus (true colour, increased contrast image, false colour image)
- On/off switch for LED illumination
- Deleting saved images
5. On/off button
6. Stand
7. Camera
8. LED illumination
9. Charging socket
10. LED charging indicator



Operation/application modes

You can use the device either by holding it in your hand, placed on the subject material (contact) or in the writing position.

Hand-held operation:

If you are using the device in hand-held operation, fold the stand in and move the device at a suitable distance above the subject material.



Contact operation:

For contact operation, fold the stand on the underside of the device out completely. Place the smartlux DIGITAL on the subject material which is to be magnified.





Writing position:

You can also use the smartlux DIGITAL for writing underneath it. To do this, fold the stand out as far as the first snap-in position and position the device vertically.



Charging the internal battery:

Before using the smartlux DIGITAL for the first time, you need to fully charge the internal battery!

To charge it, connect the cable from the mains adapter supplied to the charging socket (9) on the smartlux DIGITAL. Now plug the mains adapter into a suitable mains socket using the relevant mains plug type. Charging takes about 2 hours. The charging indicator LED (10) will illuminate red during the charging process. The charging check LED goes out once the charging process is complete. When charging is complete, disconnect the mains adapter from the plug and from the smartlux DIGITAL. You can use the device during the charging process. This will extend the charging time.



The charging status of the internal battery is shown at the top screen border when the device is switched on.



Battery completely charged



Capacity 75 %



Capacity 50 %



Residual capacity 25%, the symbol is displayed in red at the top screen border for 5 seconds



Residual operation time approx. 3 min, the symbol is displayed in red at the top screen border permanently

Switching on/off

Press the on/off button (⑤), to switch the smartlux DIGITAL on and to go to live image mode. The magnified image of the subject material is shown on the display (①). Symbols display the battery charging status, the magnification last set and the screen brightness for 5 seconds at the top screen border.

The smartlux DIGITAL switches itself off automatically if it is not used for more than 3 minutes in order to save the internal battery charging status. If you want to use the device again, switch it on again.

To switch the device off, press the on/off button. The current settings for magnification, display mode and display brightness will be saved.



Adjusting the Magnification

The smartlux DIGITAL can provide 4 magnification levels during contact operation: $5\times$, $7\times$, $9\times$ and $12\times$. The available magnification is lower when the device is being held in the hand. If you raise the smartlux DIGITAL 5 cm from the subject, the resulting magnification levels are approximately $1.9\times$, $2.6\times$, $3.4\times$ und $4.5\times$.

In the writing position:

If you press the magnification button (③) briefly, the next highest magnification will be set. The magnification currently set will be displayed at the top screen border for 5 seconds.

Adjusting the display brightness

If the display appears to be too bright, you can dim the brightness. To do this, press and hold the magnification button (③) down. The display will dim to 75% after 3 seconds, and then to a brightness of 50% after a further 3 seconds, before it repeats the cycle from 100% brightness. To save the setting, simply release the magnification button at the display brightness which appears comfortable to you. The brightness currently set will be displayed at the top screen border for 5 seconds.



100% display brightness



75% display brightness



50% display brightness



Setting the display mode

The smartlux DIGITAL is equipped with a range of display modes so that you can achieve the best possible image. If you press the contrast button (④) briefly and repeatedly, you will run through the various display modes from true colour mode through increased contrast mode black/white and white/black up to false colour display black/yellow and yellow/black.

Switching the LED illumination on/off

There are two LEDs (③) on the underside of the smartlux DIGITAL which illuminate the subject material to enable optimum contrasting and true-colour images. Under certain circumstances (e.g. glossy subject material) it may be necessary to switch the LED illumination off to avoid point reflections.

To do this, press and hold the contrast button (④) for 3 seconds.

If you want to switch the LED illumination on again, press and hold the contrast button for a further 3 seconds. The LED illumination status currently set will be displayed at the top screen border for 5 seconds.



LED illumination switched on



LED illumination switched off






Freezing and saving images

The smartlux DIGITAL is equipped with a photo button (❷) which enables you to temporarily freeze images and then save them permanently on the device (photo mode).

Temporarily freezing images:

To freeze an image, press the photo button (❷) briefly. The frozen image will be shown on the display. You can further edit it by using the magnification button (❸) and the contrast button (❹). If you press the photo button (❷) again briefly, you will return to live image mode.

Saving images permanently:

Once you have frozen an image, you can save it permanently by pressing and holding the photo button (❷, ) for at least 3 seconds. The image will be saved at position 1 in the smartlux DIGITAL memory. The memory location is displayed using a diskette symbol at the top screen border. Images already saved are moved up by one position. Up to 20 images can be permanently saved. Once the maximum memory capacity has been reached, a red diskette symbol is displayed at the top screen border. In this case, you should delete some saved images in order to create more memory capacity (see managing saved images).



If you switch the smartlux DIGITAL on and there is no memory capacity available for images, this will be shown on the start screen top border by a red, crossed-out diskette symbol.



Image has been saved in Position 1 of 20.



Image memory is full (symbol is then shown red). Images must be deleted before you can save new images.



Display when the smartlux DIGITAL is switched on and the image memory is full.
No more images can be saved.

Managing saved images

You can manage your saved images in photo mode. Hold the photo button (②) pressed for 3 seconds to change from live image mode to the image saved in Position 1. If you continue to hold the photo button (②) pressed, the images saved in Positions 2 to 20 will be displayed at 3 second intervals. Release the photo button (②) once the image you wish to manage is displayed.



Magnifying saved images:

If you press the magnifying button (③) briefly, you can change the magnification of the selected image (see also "Adjusting magnification").

Changing the display mode for the saved image:

You can select the display mode most suitable for the image by pressing the contrast button (④) briefly (see also "Adjusting the display mode").

Deleting saved images:

To delete a saved image, press and hold the contrast button (④) for 3 seconds. A waste bin (🗑️ ?) will be displayed as a query in order to ask you to confirm whether you really wish to delete the image. Confirm the deletion by pressing the contrast button (④, ✓ ⊖) again.

If you do not want to delete the image, cancel the deletion process by pressing the magnification button (③, ↶ 🔗) or the photo button (②, ↶ 📷).



Technical data

Display size:	12.7 cm (5")
Magnification range:	Contact operation: 5×, 7×, 9×, 12× Hand-held at approx. 5 cm: 1.9×, 2.6×, 3.4×, 4.5× Writing position: 1.7×, 2.4×, 3.1×, 4.2×
Operating time:	Approx. 3 hours
Charging time:	Approx. 2 hours
Mains adapter voltage:	AC 100 V – 240 V~, 50 – 60 Hz
Temperature range:	10 °C – 40 °C
Weight:	220 g

Care Instructions

- ▶ When cleaning the smartlux DIGITAL do not use any soap solutions that contain softening agents, alcoholic or organic solvents, and do not use abrasive detergents!
- ▶ Do not clean the smartlux DIGITAL in an ultrasonic bath or under flowing water!
- ▶ Only clean the smartlux DIGITAL with a soft, dry cloth. For heavier soiling (e.g. fingerprints), moisten the cloth slightly.
- ▶ If you are not using the smartlux DIGITAL, always keep it in the hard foam case supplied.



Warranty

Within the parameters of the applicable statutory provisions, we provide a warranty for the functioning of the product described in this manual with regard to faults arising in connection with manufacturing defects or material defects. In event of damage due to improper handling, including damage from a fall or impact, no warranty claims can be made. Warranty claims are only accepted upon presentation of the sales receipt!

Disposal

- ▶ When the device reaches the end of its useful life, do not dispose of it with the normal household waste. This product is subject to the European directive 2002/96/EC.
- ▶ Dispose of the product or parts of the product through a certified disposal facility or your municipal disposal facility. Observe the currently applicable regulations. In case of doubt, contact your disposal facility. Dispose of all packaging materials in an environmentally friendly manner.