

Instruction for use
HEINE DELTA® one
HEINE DELTA® 30
HEINE DELTA® 30 PRO



HFINE DELTA®one **HEINE DELTA® 30 HEINE DELTA® 30 PRO**



Please read and follow these instructions for use of and keep them for future reference.

Intended use

DELTAone, DELTA 30 and DELTA 30 PRO Dermatoscope

The dermatoscope is an internally powered medical examination light for non-invasive transient contact and non-contact examination of the skin.

In contact mode, skin showing a pathological change or a change due to a disease can be examined. The small contact plate is not suitable for use on mucosa. The examination of wounds is only permitted in non-contact mode. The contact plate must be removed for non-contact mode. The working ring is intended for the examination and instrument access of a skin section that has a pathological or disease-related change. The contact surface of the working ring must not come into contact with this altered skin.

The product may only be used by qualified medical professionals and in professional healthcare facilities. The application is not limited to any patient demography.

DELTA one, DELTA 30 and DELTA 30 PRO Dermatoscope with "Smartphone Adapter" option

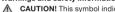
The "Smartphone Adapter" option can be used to mechanically connect a smartphone with a respective app. The app is designed for documentation by recording, storing and displaying images.



For U.S. only:

Federal law restricts this device to sale by or on the order of a Physician or Practitioner!

Warnings and safety information



CAUTION! This symbol indicates potential hazardous situations. Ignoring the corresponding instructions may lead to dangerous situations of mild to moderate extent. (Background color vellow: foreground color black).



NOTE! This symbol indicates valuable advice. This notes are important, but no related to hazardous situations

Product overview

HEINE DELTAGRE

- 1 On/Off switch
- 2 Focusing ring
- 3 Contact plate 3a Contact plate small
- 4 Micro-USB connector
- 5 Charge indicator
- 6 Brightness control (right)
- Polarisation button (left)
- 8 Polarisation indicator

HEINE DELTA 30

- 9 On/Off switch
- 10 Polarisation button
- 11 Brightness control
- 12 Contact plate
- 12a Contact plate small
- 13 Focusina rina 14 Polarisation indicator
- 15 Micro-USB connector
- 16 Charge indicator
- 20 HEINE diSTANCE working ring

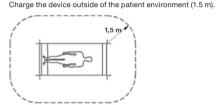


HEINE DELTA 30 PRO

- 9 On/Off switch
- 10 Polarisation button
- 11 Brightness control
- 12 Contact plate 12a Contact plate small
- 13 Focusing ring
- 14 Polarisation indicator
- 16 Charge indicator
- 17 Colour temperature indicator
- 18 USB-C connector
- 19 Colour change button
- 20 HEINE diSTANCE working ring

Setting up Charge the instrument fully before first use.

Charging



Charging via USB (DELTAone and DELTA 30)

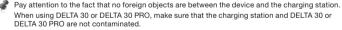
Use a USB cable to connect the USB connector (4,15) of the dermatoscope to a USB power supply (e.g. HEINE E4-USB).

Charging via USB-C (DELTA 30 PRO)

Use the USB-C cable delivered with the DELTA 30 PRO cable to connect the USB-C connector (18) of the dermatoscope to a USB power supply.

Using the charging station (DELTA 30 and DELTA 30 PRO)

Use the charging station to charge DELTA 30 and DELTA 30 PRO. The blue LED on the charging station indicates contact with the dermatoscope. The charge indicator is located on DELTA 30 and DELTA 30 PRO.



The setting up and operation of the charging station is described in a separate instruction of use.

Charge indicator

A charge indicator (5, 16) is located on the side or underside of the dermatoscope.

Colour temperature indicator

For the DELTA 30 PRO there is an indicator located on the left side of the dermatoscope, showing the selected colour temperature.

Indicator colour	Selected colour temperature	
Orange	Neutral warm white	
Purple	Neutral cold white	
Light blue	Cold white	
Deep blue	Blue cold white	

DFI TAone

Instrument	Charger	Battery	Charge indicator
switched off		charging	green, flashing
	connected	full	green
switched on		full (≥ 25 %)	green
	not connected	empty (< 25 %)	orange
		residual capacity (< 10 %)	orange, flashing

DELTA 30 and DELTA 30 PRO

Instrument		Battery	Charge indicator segments		
	Charger		Green - 1	Green - 2	Orange - 3
switched off	connected	100 %	on	on	on
		full (99 % - 66 %)	flashing	on	on
		sufficiently charged (66 % - 33 %)	off	flashing	on
		empty (≤ 33 %)	off	off	flashing
switched on	not connected	full (≥ 66 %)	on	on	on
		sufficiently charged (66 % - 33 %)	off	on	on
		empty (33 % - 10 %)	off	off	on
		residual capacity (< 10 %)	off	off	flashing

If the device is switched off, the charge indicator remains on for a further 3 seconds and then goes off.

Do not look directly into the light source when checking the charge level.

Operation

To switch on the illumination, press the button (1,9) on the instrument. The device starts with the last selected brightness level and in polarisation mode.

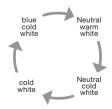
For DELTA 30 PRO: The device starts with the last selected colour temperature, last selected brightness level and in polarisation mode.

Press the button (6, 11) to adjust the brightness in three steps.

The device switches off automatically after 10 minutes if the polarisation buttons, the colour temperature buttons or the brightness control are not used.

DELTA 30 PRO colour temperature change

By pressing the button (19) labelled as "C" on the front of the DELTA 30 PRO, the colour temperature is changed forward to a more bluish colour with a high CCT value. There are 4 colour temperatures to cycle through. If the highest value is reached, the cycle starts again with neutral warm white.



HEINE DELTA 30 PRO is intended for a transient examination of less than 20 minutes with a 10 minutes break until the next application.

Contact mode (with contact plate)

Place the contact plate (3,3a,12,12a) on the instrument, making sure that it snaps into place.

The working ring (20) is used instead of the contact plate (3.3a.12.12a). Place the working ring on the instrument, making sure that it snaps into place. Place the instrument with the contact plate or the working ring onto the area of skin being examined.

With DELTAone, extend the contact plate (3, 3a) over the focusing ring (2).

When carrying out examinations with polarised illumination, you do NOT need any contact liquid such as immersion oil or disinfection spray. In polarised mode, the polarisation indicator (8,14) lights up blue.

Use the polarisation button (7.10) to switch to non-polarised mode. In this case, use a contact fluid such as immersion oil. When using the small contact plate (3a, 12a), examination is only possible in non-polarised mode

Adjusting the focus in contact mode

Your eve needs to be at a distance of approximately 2 cm from the focusing ring (2.13). Rotate the focusing ring until you see a sharp image. The image has 10-fold magnification.

Non-contact mode (without contact plate)

Take off the contact plate (3, 3a, 12, 12a) or the working ring (20) and hold the device at a distance of approximately 1 cm above the area of skin being examined. Use the polarisation button (7,10) to switch to non-polarised mode.

Adjusting the focus in non-contact mode

Your eye needs to be at a distance of approximately 2 cm from the focusing ring (2,13).

With DELTA 30 and DELTA 30 PRO, rotate the focusing ring (13) until you see a sharp image.

With DELTAone, the focus is adjusted via the distance between the skin and the optics. There is no need to rotate the focusing ring (2).

The image has 10-fold magnification.

Reset of the device

If the device cannot be operated even though the battery is sufficiently charged, press buttons 10 and 11 for 8 seconds on the DELTA 30 or buttons 10 and 19 for 8 seconds on the DELTA 30 PRO.

Smartphone Adapter

To connect the dermatoscope to a smartphone, you need a suitable adapter for your smartphone. Place the adapter onto the focusing ring (2,13). The adapter is held in place by magnetic force. Install the corresponding app on your smartphone. The app is available in the App Store*. To avoid any possible malfunctions, please deactivate all other services (switch on flight mode).

*App Store is a service mark of Apple Inc.



♠ Protecting patient data is users' sole responsibility (e. g. protection of the smartphone with a pin, data transmission via a secure connection). Ensure that your smartphone is adequately protected against access by third parties.

An electrical conducting connection between smartphone, PC and a mains power source is not permissible during the recording of the picture.



All images are saved exclusively on the smartphone in the app's sandbox. The user is responsible for the regular creation of a data backup to prevent data loss, which can happen for example through deleting the app or losing the smartphone. A data backup can be made via cable to another computer or via the network to the iCloud.

Hygienic reprocessing

The instruction is available:

- at www.heine.com
- in a paper version which you can request from the address listed

Maintenance

The device is maintenance free.

Service

The device has no components serviceable by the end-user.

General notes



The warranty for the entire product is invalidated if non-genuine HEINE products or non-original parts are used and if repairs or modifications are made to the device by persons not authorized by HEINE. For more information, please visit www.heine.com.

The expected life cycle amounts with designated use and the observation of warning and safety information as well as the maintenance instructions up to 7 years. Beyond this period, the product may continue to be used if it is in a safe and good condition.

Note to the user and/or patient:

All serious incidents that occur in connection with the product must be reported to

HEINE Optotechnik GmbH & Co. KG and the member state's competent authority.

Charge your device during longer storage periods to protect the battery from deep discharge.

Store and use the device only in a dry and dust-free environment. To reduce the contact temperatures in high ambient conditions, the DELTA 30 and DELTA 30 PRO

have a brightness reduction feature.

General warnings



M Use only CE marked USB power supplies (5 V) from reputable manufacturers that conform with the safety requirements from the IEC 60601-1 Medical electrical equipment.

Do not use power supplies where damage has been detected.

Check the correct operation of the device before use! Do not use the device if there are visible signs of damage or the light begins to flash.

Do not use the device in fire- or explosive risk area (e.g. oxygen saturated or anaesthetic environments).

This product is not allowed to be entered or used in strong magnetic fields like MRI scanners.

Do not modify the device.

Use only original HEINE parts, spare parts, accessories and power sources.

Do not look directly into the light source to avoid dazzle from the intense light.

The dermatoscope is not suitable for eye examination.

Disposal



The appendix contains following tables

- Electromagnetic disturbances Requirements and tests
- Technical specification
- Explanation of the used symbols















