

**HEINE** QUALITY  
MADE IN GERMANY

## HEINE® NC2 Dermatoscope



CE



V-200.00.068

# HEINE® NC2 Dermatoscope

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

## Intended Use

### NC2 Dermatoscope

The HEINE® NC2 Dermatoscope is an internally powered medical examination light for non-invasive visual inspection of intact skin. The product can be used contactless or in contact with the skin of the patient. It may be used only by qualified medical personnel in a professional health facility.

### NC2 Dermatoscope with "Smartphone Adapter" option

The "Smartphone Adapter" option can be used to mechanically connect a smartphone to the NC2 dermatoscope. The NC2 App is designed for documentation through the recording, storage and display of 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 yellow; foreground color black).

 **NOTE!** This symbol indicates valuable advice in terms of installation, operation, maintenance or repair. Notes are important, but not related to hazardous situations.

## Product overview

- 1 Instrument
- 2 Focusing ring
- 3 Contact plate
- 4 Adapter
- 5 Mounting case smartphone
- 6 Micro-USB connector
- 7 Charge indicator



## Setting up

Charge the instrument fully before first use.

## Charging

Use a USB cable to connect the USB connector (6) of the NC2 to a USB power supply (e.g. HEINE® E4-USB, PC or laptop). The battery indicator (7) flashes in green during the charging process. When the indicator is green permanently, the unit is fully charged. If the indicator is orange, you should recharge your device.

## Operation

To switch on the illumination, press the button on the instrument. (Press the button again to switch the illumination off.)

### *Contact mode (with contact plate)*

Place the contact plate (3) on the instrument such that it snaps into the recesses. The contact plate is held in place by magnetic force.

Place the instrument with the contact plate onto the skin area to be investigated. Because of the polarised illumination, you do NOT need any contact liquid such as immersion oil or disinfection spray. The image has 10-fold magnification.

### *Non-contact mode (without contact plate)*

Take the contact plate off and hold the unit at a distance of approximately 2 cm over the skin area to be investigated. The image has 6-fold magnification.

### *Adjusting the focus*

Your eye needs to be at a distance of approximately 2 cm from the focusing ring (2). Rotate the focusing ring until you get a sharp image.

### *Smartphone adapter*

To connect the NC2 to your smartphone, you need the adapter dock (5) and adapter (4) fitting your smartphone.

Place the smartphone in the adapter dock (5) and press it into the dock until it snaps into the brackets. Push the adapter (4) onto the adapter dock until it clicks into place. Rotate the focusing ring (2) outward to the limit stop such that the eyepiece focuser is moved out as far as possible. Carefully push the fixing bracket of the adapter over the eyepiece focuser until the bracket snaps into place and the adapter is firmly connected to the smartphone.

The adapter can be rotated about the eyepiece focuser allowing the smartphone to be oriented in any direction (for right- and left-handed users).

Install the NC2 app on your smartphone. The app is available in the AppStore.

To avoid any possible malfunctions, please deactivate all services (flight mode).

 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.

 The pictures are stored in a file in the picture database of the smartphone. This file should only be viewed and changed with the NC2 app.

Carry out periodically a back-up of your data to avoid a loss. A back-up of the data is for example possible with the iCloud.

## Hygienic reprocessing

The instruction is available:

- at [www.heine.com](http://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](http://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.

## General warnings



Use only CE marked USB power supplies (5 V) from reputable manufacturers that conform with the safety requirements from the IEC 60950-1 Information technology or IEC 60601-1 Medical electrical equipment.

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 NC2 is not suitable for eye examination.

## Disposal



The product must be recycled as separated electrical and electronic devices. Please observe the relevant state-specific disposal regulations.

The appendix contains following tables

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