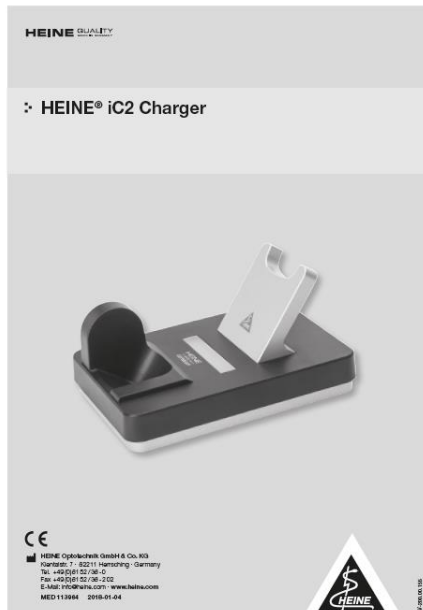


HEINE® iC2 Charger



MED 113964 V-200.00.155

Date: 2018-01-17



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

Intended use

The HEINE® iC2 Charger is intended for inductive charging exclusively with the HEINE® iC2 Funduscope.

It should only be operated by qualified medical personnel within a professional health facility.

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 colour yellow; foreground colour black).



Note! This symbol indicates valuable advice in terms of set up, operation, maintenance or repair, as applicable.

Notes are important, but not related to hazardous situations.

Product overview



Setting up

Primary country adapter



The primary country adapter of the power supply is interchangeable, this enables worldwide operation. The following picture describes the procedure of changing the plug.

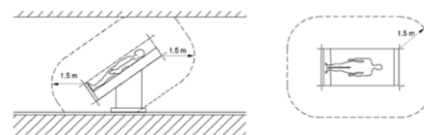


After you checked the mains voltage indicated on the nameplate of the device, connect the mains supply plug to the mains supply.

Mount the power supply in such a position where it can be easily unplugged.

To put the power supply out of operation just disconnect the power supply from the mains supply.

The HEINE charger is intended for installation in medical areas outside the patient environment (at least 1.5 meters from the patient or patient support pursuant to IEC 60601-1, see figure).



The above figure defines the patient environment (minimum radius around the patient).

Operation

For charging the iC2 Funduscope place it onto the iC2 Charger as pictured in the product overview.

Make sure that there are no objects in the charging cradle.

The regular blue pulsating charge indicator indicates that the iC2 Funduscope is being charged. When the instrument is fully charged, the indicator will be lit permanently blue.

If the charge indicator is not on or flashes orange after inserting the instrument into the charger, check whether the mains plug is plugged in and the instrument is correctly seated. If necessary, reset the charging process by removing the instrument from the charger for a few seconds and then replacing it in again. If you do not notice any improvement, please contact the manufacturer.

On the back of the iC2 Charger there is a USB port that allows you to charge devices (e.g. your smartphone, BETA 4 USB charging handle).

Hygienic reprocessing

The instructions are 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, when the device is normal used and the warning and safety information as well as the maintenance instructions are observed, is 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



Check the correct operation of the device before use! Do not use the device if there are visible signs of damage.

The inductive charging of third-party products is not permitted.

Do not place metallic objects (e.g. paper clips, coins) in the charging cradle.

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

This product is not allowed to enter or be used in areas with strong magnetic fields e.g. MRI scanners.

Do not modify the device.

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

Repairs shall only be carried out by qualified persons.

Do not use the power supply outdoors.

Heating of the housing during operation is normal and harmless. Make sure that the device isn't covered during operation, that it isn't placed in close proximity to a heating and that isn't exposed to direct sunlight.

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

Electromagnetic disturbances – Requirements and tests	
The device is intended for use in the electromagnetic environment specified below. The customer or the user of the device should assure that it is used in such environments.	
Statement for the operational environments	Inside hospitals except for: near active HF surgical equipment and the RF shielded room of an ME system for magnetic resonance imaging, where the intensity of EM disturbances are high.
Performance features of the ME system that have been determined to be essential to the performance	None
Warning	Use of this equipment adjacent to or stacked with other equipment should be avoided because it could result in improper operation. If such use is necessary, this equipment and the other equipment should be observed to verify that they are operating normally.
	Use of accessories, transducers and cables other than those specified or provided by the manufacturer of this equipment could result in increased electromagnetic emissions or decreased electromagnetic immunity of this equipment and result in improper operation.
	Portable RF communications equipment (including peripherals such as antenna cables and external antennas) should be used no closer than 30 cm (12 inches) to any part of the iC2 charger, including cables specified by the manufacturer. Otherwise, degradation of the performance of this equipment could result.
A list of all cables, transducers and other accessories that are relevant for the EMC compliance	As applicable, see attachment
Test	Compliance
RF emissions CISPR11	Group 1 Class B
Harmonic Emissions	Passed
Voltage Fluctuations/Flicker	Passed

Federal Communications Commission (FCC)

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

The Federal Communications Commission (FCC) warns the users that changes or modifications to the unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.



This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the Receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Industry Canada (IC) emissions

This device complies with Industry Canada's license-exempt RSSs. Operation is subject to the following two conditions:

- (1) This device may not cause interference; and
- (2) This device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence.
L'exploitation est autorisée aux deux conditions suivantes:
(1) l'appareil ne doit pas produire de brouillage;
(2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

RF exposure statement (mobile and fixed devices)

This device complies with the RF exposure requirements for mobile and fixed devices. However, the device shall be used in such a manner that the potential for human contact during normal operation is minimized.











Technical specifications












Nominal input voltage	100 – 240 V AC / 50 – 60 Hz
Power consumption	< 15 W
Nominal output voltage USB	5 V
Nominal output current USB	600 mA
Class	II
Protection class	IP 20

Environmental conditions

Environmental conditions for operation:	+10 °C to +35 °C 30 % to 75 % rel. humidity 700 hPa to 1060 hPa
Environmental conditions for storage:	+5 °C to +45 °C 45 % to 80 % rel. humidity 500 hPa to 1060 hPa
Environmental conditions for transport:	-20 °C to +50 °C 45 % to 80 % rel. humidity 500 hPa to 1060 hPa

Explanation of utilized symbols

	The CE mark indicates that the product complies with the European medical device directive 93/42/EEC.
	Catalogue- or order number
	Serial number
	Manufacturer
	Date of manufacture
	Product bearing this symbol may not be disposed of together with general household waste, but instead requires separate disposal according to local provisions. (European Waste Electrical and Electronic Equipment Directive, WEEE)
	Temperature limits in °C for storage and transport
	Temperature limits in °F for storage and transport
	Humidity limitation for storage and transport
	Pressure limitation for storage and transport

	Follow instructions for use! (Background color: blue, foreground color: white.)
	Keep dry!
	For indoor use only
	Instructions for use
	Class II equipment
	Trade mark of the manufacturer
	UL Recognized Component Mark (for USA and Canada)
	Approval mark of SIQ (for Slovenia)
	The Regulatory Compliance Mark (RCM)
	UL Mark for Canada and the USA
	Efficiency level (US) (Background color: blue, foreground color: white.)