

# HEINE mini 3000<sup>®</sup> LED otoscope.



## DATA

Description	mini 3000 LED otoscope
Catalogue number	see catalogue or price list
Document release date	July, 2024

## GENERAL

Product variants	mini 3000 LED otoscope, black mini 3000 LED otoscope, blue
Material	plastic, metal
REACH   RoHS	conform
Phthalate	contains no phthalates that require declaration
Latex	contains no latex
Biocompatibility	conform
Surface	plastic, metal
Environmental conditions operation	temperature: +10 °C to +35 °C, relative humidity: 30 % to 75 %, air pressure: 700 hPa to 1060 hPa
Environmental conditions storage	temperature: +5 °C to +45 °C, relative humidity: 45 % to 80 %, air pressure: 500 hPa to 1060 hPa
Environmental conditions transport	temperature: -20 °C to +50 °C, relative humidity: 45 % to 80 %, air pressure: 500 hPa to 1060 hPa
Durability	5 years warranty
Instructions for use*	Deutsch, English, Français, Español, Italiano, Svenska, Nederlands, Dansk, Norsk, Suomi, Português
Operating elements	swivelling viewing window
Power supply	HEINE mini 3000 battery handle (2.5 V)
Removable parts   accessories	HEINE AllSpec disposable tips, reusable tips
Features	shock-resistant polycarbonate housing
Maintenance	device is maintenance-free, LED cannot be replaced by the user
Service	device is service-free
Patents	n/a

## MECHANICAL

Weight product	33 g
Weight packaging (including product)	88 g
Dimensions product	56 x 25 x 40 mm (height x width x depth)
Dimensions packaging	108 x 42 x 68 mm (length x height x depth)
Connections	screwed thread connector to handle, bayonet for tip
Imprints	mini 3000 LED UDI-code, GTIN HEINE made in Germany, symbol for application part BF, CE, HEINE logo, serial number, www.heine.com

**ELECTRICAL - BATTERY HANDLE**

Input voltage	1.2 V - 3.2 V
Power consumption	typ. 125 mA at full brightness and 3.2 V
Operation time	typ. 12 h using 2x IEC LR6 1.5 V (size AA) batteries
Protection class	internally powered

**OPTICAL**

Type	LED illumination (HQ) 2.5 V
Magnification	3-fold
Luminous flux** (without   with 4 mm tip)	typ. 3 lm   typ. 0.6 lm
Illuminance*** (with 4 mm tip)	typ. 50,000 lx
Colour temperature	4000 K +/- 500 K
Colour rendering index (CRI)	typ. > 90
Medium life expectancy (LED)	typ. 60,000 h
Classification according to IEC 62471	exempt

**HYGIENIC REPROCESSING**

Procedure	please see detailed description for the reprocessing procedure online at <a href="http://www.heine.com">www.heine.com</a>
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**CODES**

Customs code	90189084
GTIN	4053755202515 (black) 4053755202522 (blue)
Traceability	UDI-code
Country of origin	Germany (DE)

**REGULATORY**

Product classification (EU)	class I
Product classification (USA)	class I, 510(k) exempt
Product classification (Canada)	class I
UMDNS code	12-849
GMDNS code	12849
Regulation number (FDA)	874.4770
Product code (FDA)	ERA

**FULFILLS THE REQUIREMENTS OF DIRECTIVES & STANDARDS**

ISO 13485	medical devices - quality management systems - requirements for regulatory purposes
Regulation (EU) 2017/745	on medical devices
IEC 60601-1	medical electrical equipment: general requirements for basic safety and essential performance
IEC 60601-2-18	medical electrical equipment - part 2-18: particular requirements for the basic safety and essential performance of endoscopic equipment
IEC 60601-1-2	medical electrical equipment - part 1-2: general requirements for basic safety and essential performance - collateral standard: electromagnetic disturbances - requirements and tests
ISO 14971	medical devices - application of risk management to medical devices
IEC 60601-1-6	medical electrical equipment - part 1-6: general requirements for basic safety and essential performance - collateral standard: usability
IEC 62366-1	medical devices - part 1: application of usability engineering to medical devices
IEC 62471	photobiological safety of lamps and lamp systems
IEC 60601-1-9	medical electrical equipment - part 1-9: general requirements for basic safety and essential performance - collateral standard: requirements for environmentally conscious design

ISO 10993-1	biological evaluation of medical devices - part 1: evaluation and testing within a risk management process
ISO 17664	processing of health care products - information to be provided by the medical device manufacturer for the processing of medical devices
ISO 2248	packaging; complete, filled transport packages; vertical impact test by dropping
Directive (2011/65/EU) ROHS	on the restriction of the use of certain hazardous substances in electrical and electronic equipment
Directive (2012/19/EU) WEEE	on waste electrical and electronic equipment
Regulation (1907/2006) REACH	registration, evaluation, authorization and restriction of chemicals
Directive (94/62/EC) packaging   packaging waste	packaging and packaging waste, German registration no. DE 5329703000126

\*) further languages on request

\*\*) at 3.7 V supply voltage

\*\*\*) calculated