

# HEINE BETA

## Otoscope



### DATA

Description	HEINE BETA  Otoscope 3x	HEINE BETA  Otoscope 4.2x
Catalogue number	B-130.28.330	B-131.28.330
Items included	HEINE BETA  Otoscope with HEINE  CHANGE System 3x Magnifier, 10x AllSpec 4 mm disposable tips, hard case, USB-C-cable with IEC 60601-1 approved power supply and country adapters	HEINE BETA  Otoscope with HEINE  CHANGE System 4.2x Magnifier, 10x AllSpec 4 mm disposable tips, hard case, USB-C-cable with IEC 60601-1 approved power supply and country adapters
Document release date	March, 2025	

### MECHANICAL

Weight product	112 g	118 g
Weight battery	22 g	22 g
Weight packaging (including product)	734 g	740 g
Dimensions product	180 x 39 x 53 mm	180 x 39 x 53 mm
Dimension packaging	221 x 63 x 216 mm	221 x 63 x 216 mm
Connections	USB-C port	USB-C port
Imprints	front: HEINE logo, BETA  ; icons: HEINE inSPECT, otoscopy light, on   off back: HEINE made in Germany side: USB-C, 5 V, 500 mA, IFU, MD, CE, production year, UDI, serial number, www.heine.com, datamatrix code, type BF applied part eyepiece attachment: HEINE  CHANGE System 3x Magnifier	front: HEINE logo, BETA  ; icons: HEINE inSPECT, otoscopy light, on   off back: HEINE made in Germany side: USB-C, 5 V, 500 mA, IFU, MD, CE, production year, UDI, serial number, www.heine.com, datamatrix code, type BF applied part eyepiece attachment: HEINE  CHANGE System 4.2x Magnifier

### ELECTRICAL

Power supply	Li-ion cell (internal battery)
Input	5 V DC, 500 mA
Power consumption	max. 1 W
Operating time	typ. 220 min. with 100 % brightness
Charging time	typ. 160 min.
Automatic switch-off function	turns off after 5 min.
Protection class	charging: II; operating: internally powered

### HEINE inSPECT Additional Examination Light

#### OPTICAL

Type	HEINE LED illumination (HQ)
Illuminance	typ. 21.000 lx at 100 mm distance
Color temperature	3.500 K +/- 500 K
Color rendering index (CRI)	typ. CRI > 90
Working distance	50 to 100 mm

Classification according to IEC 62471	risk group 2 (moderate risk)
Optical safety according to ISO 15004-2	group 2
Optical safety according to ANSI Z80.36	group 2

### Otoscopy light (F.O.)

#### OPTICAL

Type	HEINE LED illumination (HQ)
Luminous flux (without   with 4 mm   2.5 mm tip)	typ. 18 lm   4.4 lm   1.6 lm
Color temperature	3.500 K +/- 500 K
Color rendering index (CRI)	typ. CRI > 90
Classification according to IEC 62471	risk group 2 (moderate risk)

#### GENERAL

Material	anodized aluminium, plastic, glass, coated silicone
REACH   RoHS	conform
Phthalate	contains no phthalate
Latex	contains no latex
Biocompatibility	conform
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: 10 % to 90 %, air pressure: 500 hPa to 1060 hPa
Instructions for use *	Deutsch, English, Francais, Espanol, Italiano, Svenska, Nederlands, Dansk, Norsk, Suomi, Portugues
Operating elements	3 control buttons: 1. HEINE inSPECT on-low   on-high brightness level; 2. otoscopy light on-high   on-low brightness level; 3. otoscope on-high brightness level   off
Accessories	please see the corresponding accessories online at <a href="http://www.heine.com/BETA-X-otoscope-accessories-IFU">www.heine.com/BETA-X-otoscope-accessories-IFU</a>
Maintenance	device is maintenance-free
Service	device is service-free   change of rechargeable battery

#### 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 (tariff number)	90189084	
GTIN	4053755202904	4053755202911
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	otoscope: 12-849
	eyepiece attachment: 15-652
GMDN code	otoscope: 12849
	eyepiece attachment: 65448
Regulation number (FDA)	8744770
Product code (FDA)	ERA

#### FULLFILLS THE REQUIREMENTS OF DIRECTIVES & STANDARDS

ISO 13485	Medical devices - quality management systems - requirements for regulatory purposes
Regulation (EU) 2017/745	European regulation for medical devices
IEC 60601-1	Medical electrical equipment: general requirements for basic safety and essential performance
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 60601-2-18	Medical electrical equipment - part 2-18: particular requirements for the basic safety and essential performance of endoscopic equipment
IEC 62366-1	Medical devices - part 1: application of usability engineering to medical devices
IEC 62471	Photobiological safety of lamps and lamp systems
ISO 15004-2	Ophthalmic instruments - fundamental requirements and test methods - part 2: light hazard protection
ANSI Z80.36	Ophthalmics - light hazard protection for ophthalmic instruments
IEC 62304	Medical device software - software life-cycle processes
ISO 10993-1	Biological evaluation of medical devices - part 1: evaluation and testing within a risk management process
IEC 62133-2	Secondary cells and batteries containing alkaline or other non-acid electrolytes – safety requirements for portable sealed secondary lithium cells and for batteries made from them, for use in portable applications – part 2: lithium systems
UN transport test	UN transport test, section 38.3 lithium ion batteries   part III
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 17664-2	Processing of health care products - information to be provided by the medical device manufacturer for the processing of medical devices - part 2: non-critical medical devices
ISO 2248	Packaging; complete, filled transport packages; vertical impact test by dropping
Directive (2011/65/EU) ROHS	Restriction of the use of certain hazardous substances in electrical and electronic equipment
Directive (2012/19/EU) WEEE	Waste of electrical and electronic equipment
Regulation (1907/2006) REACH	Registration, evaluation, authorization and restriction of chemicals
Directive (2006/66/EC) battery   acc. waste	Batteries and accumulators and waste batteries and accumulators, German registration no. DE 48554371
Directive (94/62/EC) packaging   packaging waste	Packaging and packaging waste, German registration no. DE 5329703000126

\*) further languages on request