HEINE BETA® 400 LED and BETA® 200 LED F.O. otoscopes

Rev.04 | 07.05.2024





DATA	
Description	HEINE BETA 200 400 LED F.O. otoscope
Catalogue number	see catalogue or price list

GENERAL				
Product variants	BETA 200 LED F.O. otoscope	BE	TA 400 LED F.O. otoscope	
Material	metal, synthetics, glas	metal, synthetics, glas		
REACH RoHS	compliant	compliant		
Biocompatibility	compliant			
Surface	metal, synthetics, glas			
Environmental conditions operation	temperature: +10 °C to +35 °C, relative air pressure: 700 hPa to 1060 hPa	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 air pressure: 500 hPa to 1060 hPa	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 air pressure: 500 hPa to 1060 hPa	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	fold	ding viewing window	
Power supply	HEINE rechargeable handles (3,5 V), HEINE EN200 wall transformer	HEINE rechargeable handles (3,5 V), HEINE battery handles (2,5 V), HEINE EN200 wall transformer		
Accessories	HEINE AllSpec disposable tips, reusa	HEINE AllSpec disposable tips, reusable tips, insufflation bulb		
Patents	n/a	DE	10 2013 208 382; US 9,579,014 B2	

MECHANICAL				
Weight	87 g	90 g		
Weight packing including product	128 g	131 g		
Dimensions product	74 x 35 x 47 mm³ (height x wid	74 x 35 x 47 mm³ (height x width x depth)		
Dimensions packaging	108 x 42 x 68 mm³ (length x he	108 x 42 x 68 mm³ (length x height x depth)		
Connections	AV for rechargeable handle, ba	AV for rechargeable handle, bayonet for tip, fitting for insufflation tube		
	BETA 200 LED	BETA 400 LED		
Imprints	HEINE made in Germany, symbol (application part BF), CE, data matrix code, SN, www.heine.com			
Enclosure rating	IP40			

Version | Date

ELECTRICAL - RECHARGEABLE HANDLES

Input voltage	3.0-3.7 V DC
Current consumption	max. 350 mA
Operation time	ca. 7 h using fully loaded Li-ion L rechargeable battery (X-007.99.383)
Safety class	internal power supply
Fuse	n/a

ELECTRICAL - BATTERY HANDLES

Input voltage	1,8 V-3,2 V
Current consumption	typ. 373 mA at full brightness and 3,2 V
Operation time	n/a
Safety class	internal power supply
Fuse	n/a

OPTICAL

Туре	LED illumination (HQ) 3,5 V 2,5 V	
Luminous flux* (without with 5 mm tip)	typ. 17.5 lm typ. 7.5 lm	
Illuminance** (with 5 mm tip)	typ. 380.000 lx	
Color temperature	3500 K +/- 500 K	
Color rendering index	typ. CRI 92	
Lifetime	typ. 100.000 h	
Classification according to IEC 62471	Exempt	
Magnification	3x	4,2x

HYGIENIC REPROCESSING

Procedure	Please see detailed description in the reprocessing procedure
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CODES

Customs Code	90189084	90189084
EAN GTIN	4053755114658 (BETA 200 LED 2,5 V) 4053755182565 (BETA 200 LED 3,5 V)	4053755179718 (BETA 400 LED 2,5 V) 4053755182558 (BETA 400 LED 3,5 V)

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

HEINE Optotechnik GmbH & Co. KG Dornierstr. 6, 82205 Gilching, Germany www.heine.com













^{*)} at 3.7 V supply voltage

**) calculated

***) further languages on request