

# HEINE BETA<sup>®</sup> 200 LED

## Retinoscope



### DATA

Description	HEINE BETA 200 LED Retinoscope 2.5 V	HEINE BETA 200 LED Retinoscope 3.5 V
Catalogue number	see catalogue or price list	
Document release date	August, 2025	

### MECHANICAL

Weight	90 g
Weight packaging (including product)	200 g
Dimensions product	129 x 37 x 43 mm
Dimensions packaging	Case: 158 x 90 x 43 mm Hard case BETA 200 LED retinoscope: 186 x 120 x 50 mm Hard case BETA 200 LED diagnostic set: 237 x 138 x 52 mm
Connections	AV connection
Imprints	Product name, ParaStop, HEINE MADE IN GERMANY, CE, HEINE logo, datamatrix code, serial number, www.heine.com
Protection class	IP40

### GENERAL

Materials	metal, glass, plastic	
REACH   RoHS	conform	
Biocompatibility	conform	
Surface	metal, glass, plastic	
Environmental conditions operation	+10 °C to +35 °C, 30 % to 90 % relative humidity, 700 hPa to 1060 hPa	
Environmental conditions storage	-10 °C to +55 °C, 10 % to 95 % relative humidity, 700 hPa to 1060 hPa	
Environmental conditions transport	-40 °C to +70 °C, 10 % to 95% relative humidity, 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	Light intensity control, single control for vergence and rotation, ParaStop for precise and easy selection of a parallel beam, detachable brow rest	
Power supply	HEINE Battery Handles (2.5 V)	HEINE Rechargeable Handles (3.5 V), HEINE EN 200 Wall Transformer
Accessories	Fixation cards	

### ELECTRICAL

Input voltage	1.8 V - 3.2 V	3.0 V - 3.7 V
Power consumption	typ. 390 mA at full brightness and nominal supply	
Protection class	internally powered	charging: II, operating: internally powered

**OPTICAL**

Type	HEINE LED illumination (HQ)
Light controlling	Rheostat (continuous brightness control)
Color temperature	typ. 3000 K
Length of the streak (500 mm distance)	typ. 35 mm
Width of the streak (500 mm distance)	typ. 1.1 mm
Working distance	500 mm
Classification according to ISO 15004-2	group 2

**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)	90185090	
GTIN	4053755119967	4053755191598
Traceability	UDI-code	
Country of origin	Germany (DE)	

**REGULATORY**

Product classification (EU)	class I
Product classification (USA)	class 1, 510(k) exempt
Product classification (Canada)	class I
UMDNS code	13-372
GMDN code	32712
Regulation number (FDA)	886.1780
Product code (FDA)	HKM

**FULFILLS 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 (MDR)
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 62366-1	Medical devices - part 1: application of usability engineering to medical devices
ISO 15004-1	Ophthalmic instruments - fundamental requirements and test methods - part 1: general requirements applicable to all ophthalmic instruments
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
ISO 12865	Ophthalmic instruments - retinoscopes

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 17664-2	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	On the restriction of the use of certain hazardous substances in electrical and electronic equipment
Directive (2012/19/EU) WEEE	On the 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