

The HEINE visionPRO video laryngoscope.



With very, very, very good image quality.

For fast and reliable intubation, nothing is more important than the best view of the glottis. The HEINE visionPRO video laryngoscope provides just that with the one of a kind HEINE allBRIGHT display – even in very bright ambient light. At the same time, the HEINE visionPRO is extremely robust, reliable and durable. To be as environmentally friendly as possible, we chose a rechargeable lithium battery and are the first to provide a blade made from upcycled material. More on [heine.com](https://www.heine.com)

DATA

Product components description	display unit: visionPRO DS1 handle Mac: visionPRO HR1 Mac charging station: visionPRO CS1
Catalogue numbers	visionPRO set Mac: F-270.95.862 visionPRO DS1: F-007.22.350 visionPRO HR1 Mac: F-008.22.360 visionPRO CS1: X-002.99.214
Consumables	single-use blades: visionPRO Mac 2, visionPRO Mac 3, visionPRO Mac 4, visionPRO HyMac 3
Consumables catalogue number	visionPRO Mac 2 (10x): F-000.22.242, visionPRO Mac 2 (50x): F-000.22.252, visionPRO Mac 3 (10x): F-000.22.243, visionPRO Mac 3 (50x): F-000.22.253, visionPRO Mac 4 (10x): F-000.22.244, visionPRO Mac 4 (50x): F-000.22.254, visionPRO HyMac 3 (10x): F-000.22.246, visionPRO HyMac 3 (50x): F-000.22.256
Date	August, 2024

WEIGHT | DIMENSION

Weight product	visionPRO video laryngoscope: 495 g (without blade) visionPRO DS1: ca. 220 g visionPRO HR1 Mac: ca. 275 g visionPRO CS1: ca. 630 g
Dimensions product	visionPRO video laryngoscope: 240 x 120 x 105 mm visionPRO DS1: 185 x 105 x 50 mm visionPRO HR1 Mac: 135 x 120 x 45 mm visionPRO CS1: ca. 270 x 80 x 73 mm
Weight packaging (including product)	visionPRO set Mac: 1.6 kg visionPRO DS1: ca. 675 g visionPRO HR1 Mac: ca. 730 g visionPRO CS1: ca. 1.090 g
Dimensions packaging	visionPRO set Mac: 350 x 180 x 120 mm visionPRO DS1: 350 x 180 x 120 mm visionPRO HR1 Mac: 350 x 180 x 120 mm visionPRO CS1: 350 x 180 x 120 mm
Imprints	visionPRO DS1: (front): visionPRO, HEINE logo, HEINE made in Germany, on-off symbol. (inside): visionPRO DS1, production date, MD, CE, datamatrix code, serial number, www.heine.com , refers to instruction manual visionPRO HR1 Mac: visionPRO HR1 Mac, HEINE logo, production date, CE, datamatrix code, serial number, www.heine.com visionPRO CS1: visionPRO, HEINE logo

ELECTRICAL

visionPRO video laryngoscope	
Power supply	Li-ion cell (internal battery)
Power consumption	max. 2.7 W (use), max. 7.2 W (charging)
Operating time	typ. 4 h continuous operation, corresponds to typ. 50 intubations incl. preparation (à 5 min)
Charging time	typ. 3 h
visionPRO CS1 (charging station)	
Power supply	external power supply
Input charging station	100-240 V~ 50-60 Hz 300-150 mA
Power consumption charging station	<15 W
Protection class	charging station: II; operating: internally powered

IMAGE PROCESSING

Display type	TFT LCD
Display technology	transflective
Display size	3.2 inch
Display dimensions (active area)	41.4 mm x 69.0 mm (L x H)
Display rotation	portrait
Display resolution	480 x 800 (WVGA)
Video resolution	480 x 640 (VGA)
Illumination type	HEINE LED HQ, shadow-free image thanks to 4 x LED ring
Illuminance	typ. 900 lx with Mac 3 blade
Colour temperature	typ. 5,300 K cool white
Camera field of view	70° (diagonal)
Camera technology	CMOS

GENERAL

Material	plastic (PC/ABS, PEEK), elastomer (TPS), metal (stainless steel, aluminum), glass (float glass, alumino silicate glass), epoxy
Surface	plastic, metal, glass
REACH RoHS	REACH: conform RoHS: conform
Phthalate	contains no phthalates
Latex	contains no latex
Biocompatibility	conform
Environmental conditions operation	+5 °C bis +35 °C, 10 % to 80 % rel. humidity, 700 hPa to 1,060 hPa
Environmental conditions storage transport*	-20 °C to +50 °C, 0 % to 95 % rel. humidity, 700 hPa to 1,060 hPa
Instructions for use**	Deutsch, English, Francais, Espanol, Italiano, Svenska, Nederlands, Dansk, Norsk, Suomi, Portugues
Operating elements	on/off button
Ingress protection code (IP code)	IP68 (handle), IP6X (display unit)
Guarantee	for more information, please visit www.heine.com
Maintenance	maintenance-free

HYGIENIC REPROCESSING

Procedure	please see detailed description for the reprocessing procedure online at www.heine.com
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CODES

Customs code (tariff number)	90189084
GTIN	visionPRO DS1: 4053755200030 visionPRO HR1 Mac: 4053755199976 visionPRO CS1: 4053755199914
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 II
GMDNS code (video laryngoscope)	62761
GMDNS code (charging station)	17115
UMDNS code	visionPRO video laryngoscope: 15-076 visionPRO CS1: 17-115
Regulation number (FDA)	868,554
Product code (FDA)	CCW

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 60601-2-18	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
DIN EN ISO 10993-1	biological evaluation of medical devices - part 1: evaluation and testing within a risk management process
IEC 62304	medical device software - software life-cycle processes
IEC 62133-2	secondary cells and batteries containing alkaline or other non-acid electrolytes - safety requirements for portable sealed secondary 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	processing of health care products - Information to be provided by the medical device manufacturer for the processing of medical devices
EN 1041	information supplied by the manufacturer of medical devices
ISO 15223-1	medical devices - symbols to be used with medical device labels, labelling and information to be supplied - part 1: general requirements
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
Regulation (1907/2006/EC) 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 (2012/19/EU) WEEE	waste of electrical and electronic equipment, german registration no. DE 87119271
Directive (94/62/EC) packaging packaging waste	packaging and packaging waste, german registration no. DE 5329703000126

*) to ensure optimal product lifetime, please avoid high temperature conditions during extended storage periods

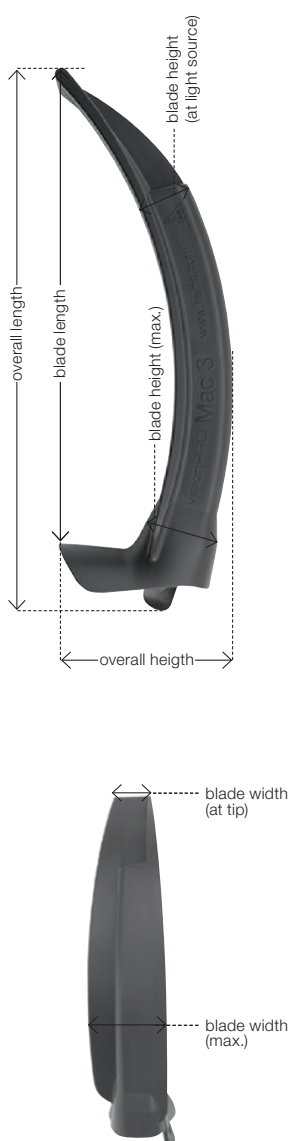
**) further languages on request

You can find ordering information and other products at www.heine.com/laryngoscopes

HEINE visionPRO single-use laryngoscope blades Mac 2, Mac 3, Mac 4 and HyMac 3.

First blade made from upcycled material.

Our visionPRO blades are made of upcycled material from discarded refrigerators. By recycling these refrigerators in a controlled manner, we spare the environment around 200 metric tons of CO₂ annually already in the very first year. This is equivalent to 3.8 million miles of rail travel per person, or about 140 times around the world. What's more, we manufacture the blades for the visionPRO video laryngoscope on a machine that runs on green-sourced electricity. Learn more about sustainability at [heine.com](https://www.heine.com). Various national and international industrial property rights have been registered and granted for the smart design of our blades.



DATA

Description	visionPRO Mac 2	visionPRO Mac 3	visionPRO Mac 4	visionPRO HyMac 3
Catalogue number	visionPRO Mac 2 (10x): F-000.22.242 visionPRO Mac 2 (50x): F-000.22.252	visionPRO Mac 3 (10x): F-000.22.243 visionPRO Mac 3 (50x): F-000.22.253	visionPRO Mac 4 (10x): F-000.22.244 visionPRO Mac 4 (50x): F-000.22.254	visionPRO HyMac 3 (10x): F-000.22.246 visionPRO HyMac 3 (50x): F-000.22.256
Document release date	August, 2024			

MECHANICAL

Weight product	13 g	14.5 g	16 g	15 g
Weight packaging (including product)	pack of 10 pcs: 0.265 kg pack of 50 pcs: 1.215 kg	pack of 10 pcs: 0.280 kg pack of 50 pcs: 1.165 kg	pack of 10 pcs: 0.320 kg pack of 50 pcs: 1.365 kg	pack of 10 pcs: 0.305 kg pack of 50 pcs: 1.315 kg
Blade length (overall packaging bounding box)	119 mm	135 mm	151 mm	134 mm
Blade length (insertion)	101 mm	117 mm	132 mm	115 mm
Blade width (overall packaging bounding box)	30 mm	32 mm	33 mm	32 mm
Blade width (insertion max. medial)	26 mm	30 mm	31.5 mm	30 mm
Blade width (tip)	14.5 mm	14.5 mm	15.5 mm	15 mm
Blade height (overall packaging bounding box)	40 mm	43.5 mm	48.5 mm	46 mm
Blade height (insertion max. proximal)	18.5 mm	18.5 mm	18.5 mm	18.5 mm
Blade height (middle medial)	15 mm	15 mm	15 mm	14 mm
Blade height (at light source)	14 mm	14.5 mm	15 mm	13 mm
Dimension packaging	visionPRO Mac 2 (10x): 250x165x110 mm visionPRO Mac 2 (50x): 340x250x267.5 mm	visionPRO Mac 3 (10x): 250x165x110 mm visionPRO Mac 3 (50x): 340x250x267.5 mm	visionPRO Mac 4 (10x): 250x165x110 mm visionPRO Mac 4 (50x): 340x250x267.5 mm	visionPRO HyMac 3 (10x): 250x165x110 mm visionPRO HyMac 3 (50x): 340x250x267.5 mm
Connections	fits HEINE visionPRO HR1 Mac			
Imprints	HEINE logo, product name, blade size, www.heine.com , CE, single-use, BF-symbol, LOT, manufacturing date			

GENERAL

Material	plastic, blade made of 93% recycled material
Coating	anti-fog coating (transparent cap)
REACH RoHS	conform
Phthalate	contains no phthalates that require declaration
Latex	contains no latex
Biocompatibility	conform
Environmental conditions operation	temperature: +5 °C to +35 °C, relative humidity: 10 % to 80 % (n. c.), air pressure: 700 hPa to 1,060 hPa
Environmental conditions storage	temperature: -20 °C to +50 °C, relative humidity: 0 % to 95 % (n. c.), air pressure: 700 hPa to 1,060 hPa
Environmental conditions transport	temperature: -20 °C to +50 °C, relative humidity: 0 % to 95 % (n. c.), air pressure: 500 hPa to 1,060 hPa
Instructions for use*	Deutsch, English, Francais, Espanol, Italiano, Svenska, Nederlands, Dansk, Norsk, Suomi, Portugues
Operating elements	none
Removable parts accessories	HEINE visionPRO HR1 Mac
Maintenance	the device is maintenance-free
Service	the device is service-free
Shelf Life	3 years +/- 1 month
Patents	patent pending, registered design

HYGIENIC REPROCESSING

Procedure	n/a blade will not be reprocessed
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CODES

Customs code (tariff number)	90189084			
GTIN	visionPRO Mac 2 (10x): 04053755201846 visionPRO Mac 2 (50x): 04053755202065	visionPRO Mac 3 (10x): 04053755200047 visionPRO Mac 3 (50x): 04053755200061	visionPRO Mac 4 (10x): 04053755200054 visionPRO Mac 4 (50x): 04053755200078	visionPRO HyMac 3 (10x): 04053755200900 visionPRO HyMac 3 (50x): 04053755202072
Country of origin	Germany (DE)			

REGULATORY

Product classification (EU)	class I
Product classification (USA)	class I, 510(k) exempt
Product classification (Canada)	class II
UMDNS code	15-076
GMDNS code	46828
Regulation number (FDA)	868.5540
Product code (FDA)	CCW

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
DIN EN ISO 10993-1	biological evaluation of medical devices - part 1: evaluation and testing within a risk management system
DIN EN ISO 7376	anaesthetic and respiratory equipment - laryngoscopes for tracheal intubation
ISO 18190	anaesthetic and respiratory equipment - general requirements for airways and related equipment
DIN EN 60601-1	medical electrical equipment: general requirements for basic safety and essential performance
DIN EN 60601-2-18	medical electrical equipment - part 2-18: particular requirements for the basic safety and essential performance of endoscopic equipment
DIN EN 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
DIN EN 60601-1-6	medical electrical equipment - part 1-6: general requirements for basic safety and essential performance - collateral standard: usability
DIN EN 62366-1	medical devices - part 1: application of usability engineering to medical devices
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 2248	packaging; complete, filled transport packages; vertical impact test by dropping
Directive (94/62/EC) packaging packaging waste	packaging and packaging waste, german registration no. DE 5329703000126
Regulation (1907/2006) REACH	registration, evaluation, authorization and restriction of chemicals

*) further languages on request

You can find ordering information and other products at www.heine.com/laryngoscopes

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We reserve the right to change specification without notice.

