

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

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|--------------------------------|--|
| 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 numbers | visionPRO Mac 2 (10x): F-000.22.242, 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 |
| Date | June, 2024 |

WEIGHT / DIMENSION

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| 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

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|------------------------------------|---|
| | 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

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|----------------------------------|---|
| 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 |
| 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

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| 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 ** |
| Ingress protection code (IP code) | IP68 (Handle), IP6X (Display Unit) |
| Guarantee | For more information, please visit www.HEINE.com |
| Operating elements | On/Off Button |
| Maintenance | Maintenance-free |

HYGIENIC REPROCESSING

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| Procedure | Please see detailed description for the reprocessing procedure online at www.HEINE.com |
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CODES

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|------------------------------|--|
| 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

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|----------------------------------|--|
| Product classification (EU) | Class I |
| Product classification (USA) | Class 1, 510(k) exempt |
| Product classification (Canada) | Class II |
| GMDNS code (video laryngo-scope) | 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

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| 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. Various national and international industrial property rights have been registered and granted for the smart design of our blades.



DATA

| Description | HEINE visionPRO Mac 2 | HEINE visionPRO Mac 3 | HEINE visionPRO Mac 4 | HEINE 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 |
| Date | June, 2024 | | | |

MECHANICAL

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|---|--|--|--|--|
| Weight product | ca. 13 g | ca. 14.5 g | ca. 16 g | ca. 15 g |
| 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 |
| Weight Packing including product | pack of 10 pcs: 0,265 kg pack of 50 pcs: 1,900 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: 2,000 kg |
| Dimensions Packing | visionPRO Mac 2 (10x): 225 x 160 x 100 mm visionPRO Mac 2 (50x): 400 x 300 x 250 mm | visionPRO Mac 3 (10x): 225 x 160 x 100 mm visionPRO Mac 3 (50x): 340 x 250 x 270 mm | visionPRO Mac 4 (10x): 250 x 165 x 110 mm visionPRO Mac 4 (50x): 340 x 250 x 270 mm | visionPRO HyMac 3 (10x): 250 x 165 x 110 mm visionPRO HyMac 3 (50x): 400 x 300 x 250 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

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|------------------------------------|--|
| Material | Blade made of ~ 93% recycled material (ABS). Transparent camera protection made of plastic (PC). |
| REACH / RoHS | Conform |
| Phthalate | Contains no phthalate |
| Latex | Contains no latex |
| Biocompatibility | Conform |
| Environmental conditions operation | +5 °C to +35 °C, 10 % to 80 % rel. humidity, 700 hPa to 1060 hPa |
| Environmental conditions storage | -20 °C to +50 °C, 0 % to 95 % rel. humidity, 700 hPa to 1060 hPa |
| Environmental conditions transport | -20 °C to +50 °C, 0 % to 95 % rel. humidity, 500 hPa to 1060 hPa |
| Instructions for use ** | Deutsch, English, Francais, Espanol, Italiano, Svenska, Nederlands, Dansk, Norsk, Suomi, Portugues** |
| Shelf Life | 3 years |
| Operating elements | None |
| Maintenance | Maintenance-free |
| Service | Service-free |
| Patents | Patent pending, registered design |

HYGIENIC REPROCESSING

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|-----------|--------------------------------------|
| Procedure | No reprocessing of single-use blades |
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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 | DE | | | |

REGULATORY

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|---------------------------------|------------------------|
| Product classification (EU) | Class I |
| Product classification (USA) | Class 1, 510(k) exempt |
| Product classification (Canada) | Class II |
| GMDNS code | 46828 |
| UMDNS code | 15-076 |
| 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 |

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| 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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www.heine.com



We reserve the right to change
specification without notice.

