

# Laryngoscopes

## THE HEINE F.O. LARYNGOSCOPE RANGE WITH THE PLUS

### LED and XHL Xenon halogen technology

The HEINE Classic+ F.O. Laryngoscope range combines HEINE HiLite fiber optic bundles with the latest HEINE LED and XHL Xenon Halogen Technology for HEINE F.O. Laryngoscope Handles to provide an excellent system.



With this innovative illumination technology HEINE F.O. Laryngoscopes are now further ahead of conventional F.O. blades and handles than ever.

The HEINE HiLite fiber optic bundle with a diameter up to 100 % larger has not only excellent light transmission, but is also autoclavable to an unprecedented extent.

### Complete compatibility

The versatile HEINE range of handles offers the right alternative for almost any combination: Laryngoscope handles with and without charge status display, various handle diameters and lengths, with 2.5V batteries, 3.5V NiMH or Lithium batteries together with the new NT300 table charger.

**5 year warranty for blades** (4000 standard autoclave cycles of 134°C/5 min. with more than 1000 lux.)

HEINE products excel through fine workmanship and quality materials. This allows HEINE to give a 5 year warranty on all handles and blades with HEINE HiLite fiber optics bundles.

HEINE F.O. Laryngoscope Blades and Handles are conform to the ISO 7376 (green standard).



## HEINE Laryngoscopes

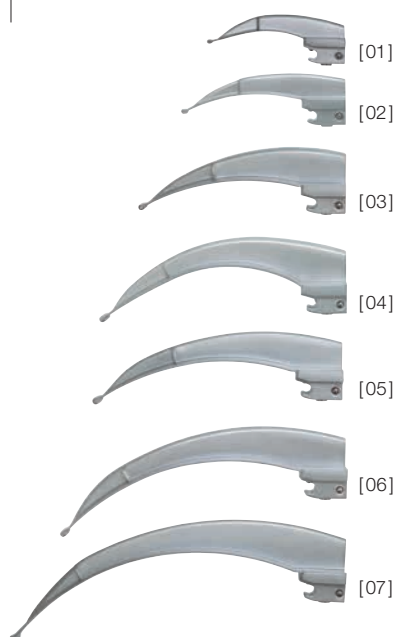


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Polycarbonate/Acrylic										<input type="checkbox"/>	<input type="checkbox"/>
	Diameter of HiLite Fiber Bundle in mm										
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	Reusable / Sterilizable										
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	Sterilisation without Disassembly										
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	Suitable for low ambient Temperatures										
								<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Warranty										
5 years	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	②	②
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②: Single use only.

## HEINE Classic+® Macintosh Fiber Optic (F.O.) Blades

### Innovative Fiber Optic Technology for advanced performance



- ✦ Easy intubation
- ✦ 4000 autoclave cycles
- ✦ 5 year warranty

- ✦ **HEINE HiLite fiber bundle** with 4.3 mm dia. and up to 6500 individual micro-fibers for improved light transmission and longer life.
- ✦ **Both ends of the large fiber bundle** are protected – for life.
- ✦ **Integrated Fiber Optic for the best possible illumination.**
- ✦ **With the alternative of LED or XHL illumination:** With either 3x or 40 % brighter light as with conventional halogen bulbs.
- ✦ With Classic+ there are **no connecting screws** to get lost, no external light pathways to get wrong and no tricky openings or crevices to get dirty – a major contribution to eliminating cross-infection.
- ✦ **Smooth shape avoids sharp edges and cavities** for easy cleaning and sterilizing.
- ✦ **These blades need no maintenance** – ever.
- ✦ **2.5V battery or 3.5V rechargeable power** for even more light.
- ✦ **Compatible with all handles** to the ISO 7376 (green standard).
- ✦ **High quality stainless steel construction.**
- ✦ **HEINE guarantees** all blades with HiLite fiber bundles for **5 years**. 4000 standard autoclave cycles of 134 °C/5min. with more than 1000 lux.



Mac 3 end-view



Mac 3 side-view

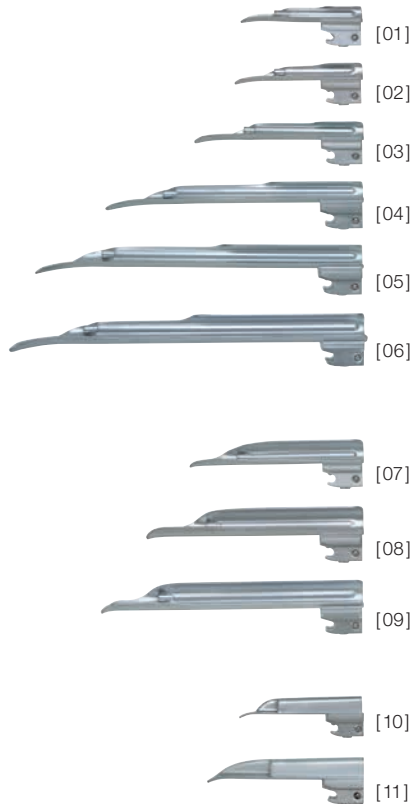


Size	Overall length	Distal width	
Mac 0 [01]	82mm	9mm	F-000.22.100
Mac 1 [02]	93mm	11mm	F-000.22.101
Mac 2 [03]	115mm	13mm	F-000.22.102
Mac 3m* [04]	135mm	15mm	F-000.22.143
Mac 3 [05]	135mm	15mm	F-000.22.103
Mac 4 [06]	155mm	15mm	F-000.22.104
Mac 5 [07]	176mm	15mm	F-000.22.105

\* stronger curve

## HEINE® Classic+ Miller, WIS and Paed Fiber Optic (F.O.) Blades

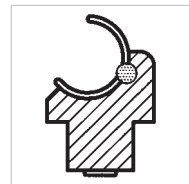
## Innovative Fiber Optic Technology for advanced performance



- ✦ **The Miller Classic+ F.O. Blades with improved geometry simplify intubation.**  
The shortened shoulder of the blade dramatically improves the anesthetist's view of the epiglottis and vocal cords. The distal lip of the blade features a special atraumatic shape.
- ✦ **HEINE HiLite fiber bundle** for improved light transmission and longer life.
- ✦ **Both ends of the large fiber bundle** are protected – for life.
- ✦ **With the alternative of LED or XHL illumination:** With either 3x or 40% brighter light as with conventional halogen bulbs.
- ✦ With classic+ there are **no connecting screws** to get lost, no external light pathways to get wrong and no tricky openings or crevices to get dirty – a major contribution to eliminating cross-infection.
- ✦ **Smooth shape avoids sharp edges and cavities** for easy cleaning and sterilizing.
- ✦ These blades need **no maintenance** – ever.
- ✦ **2.5V battery or 3.5V rechargeable power** for even more light.
- ✦ **Compatible** with all handles to the ISO 7376 (green standard).
- ✦ **High quality stainless steel construction.**
- ✦ **HEINE guarantees** all blades with HiLite fiber bundles for **5 years**. 4000 standard autoclave cycles of 134 °C/5 min. with more than 1000 lux.
- ✦ **HEINE Paed laryngoscopes** have been developed specifically for the intubation of neo-nates and infants.



Miller 2 end-view



WIS 2 end-view



Paed 1 end-view



Miller 2 side-view



WIS 2 side-view



Paed 1 side-view

- ✦ Easy intubation
- ✦ 4000 autoclave cycles
- ✦ 5 year warranty

Size	Overall length	Distal width	
Miller 00 [01]	76mm	9.5mm	F-000.22.119
Miller 0 [02]	80mm	10.5mm	F-000.22.120
Miller 1 [03]	100mm	11.5mm	F-000.22.121
Miller 2 [04]	152mm	13mm	F-000.22.122
Miller 3 [05]	192mm	13mm	F-000.22.123
Miller 4 [06]	207mm	15.9mm	F-000.22.124
WIS 1 [07]	110mm	13mm	F-000.22.131
WIS 2 [08]	130mm	16mm	F-000.22.132
WIS 3 [09]	160mm	16mm	F-000.22.133
Paed 0 [10]	82mm	12mm	F-000.22.110
Paed 1 [11]	95mm	13mm	F-000.22.111

## HEINE® Mac Modular+ Fiber Optic (F.O.) Laryngoscope Blades

### With easy-to-remove Fiber Optic Light Module



Mac Modular+ F.O. Laryngoscope Blades: Both blade and light module are autoclavable and can be fitted or removed in seconds without a screwdriver. The light module does not project into the line of sight, making intubation safer and easier.

- ✦ **HEINE HiLite fiber bundle** for improved light transmission and longer life.
- ✦ **With the alternative of LED or XHL illumination:** With either 3x or 40% brighter light as with conventional halogen bulbs.
- ✦ **Modular construction** – swap modules in a few seconds.
- ✦ **Ideal Mac shape** with no light pipe in the line of sight.
- ✦ **Blade module made entirely of stainless steel.**
- ✦ **Economical** modular design.
- ✦ **Compatible** with all handles to the ISO 7376 (green standard).
- ✦ **High quality stainless steel construction.**
- ✦ **5 years warranty.** 4000 standard autoclave cycles of 134 °C/5 min. with more than 1000 lux.



Mac 3 F.O. Modular+ blade, complete



Mac 3 Blade module, stainless steel



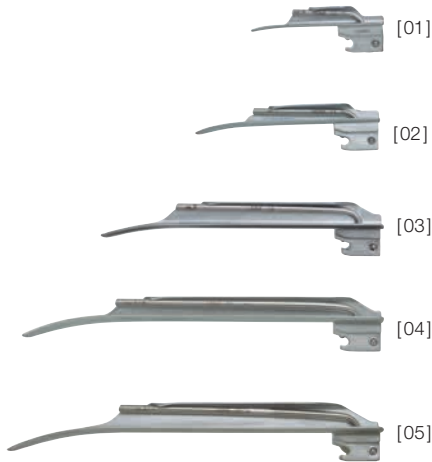
Mac 3 F.O. Light module

Dimensions	Overall length	Distal width
Mac 1	95 mm	12 mm
Mac 2	114 mm	15 mm
Mac 3	133 mm	15 mm
Mac 4	156 mm	15 mm

Size	F.O. Modular+ blade, complete	Blade module, metal	F.O. Light module
Mac 1 [01]	F-000.22.501	F-000.22.531	F-000.22.561
Mac 2 [02]	F-000.22.502	F-000.22.532	F-000.22.562
Mac 3 [03]	F-000.22.503	F-000.22.533	F-000.22.563
Mac 4 [04]	F-000.22.504	F-000.22.534	F-000.22.564

## HEINE® Miller Modular+ Fiber Optic (F.O.) Laryngoscope Blades

### With easy-to-remove Fiber Optic Light Module



Miller Modular+ F.O. Laryngoscope Blades: Both blade and light module are autoclavable and can be fitted or removed in seconds without a screwdriver. The improved geometry guarantees a clear, unobstructed view of the epiglottis and vocal cords. The distal lip of the blade features a special atraumatic shape.

- ✦ **HEINE HiLite fiber bundle** for improved light transmission and longer life.
- ✦ **With the alternative of LED or XHL illumination:** With either 3x or 40 % brighter light as with conventional halogen bulbs.
- ✦ **Blade with quickly-detachable fiber optic light module.**
- ✦ **Blade and light modules both autoclavable up to 134 °C/5 min.**
- ✦ The ideal position of the fiber optic bundle **eases intubation.**
- ✦ **Compatible** with all handles to the ISO 7376 (green standard).
- ✦ **High quality stainless steel construction.**
- ✦ **5 years warranty.** 4000 standard autoclave cycles of 134 °C/5 min. with more than 1000 lux.



Miller 2 F.O. Modular+ blade, complete



Miller 2 blade module, metal



Miller 2 F.O. Light module

Dimensions	Overall length	Distal width
Miller 0	76 mm	11 mm
Miller 1	104 mm	12 mm
Miller 2	154 mm	15 mm
Miller 3	195 mm	15 mm
Miller 4	205 mm	17 mm

Size	F.O. Modular+ blade, complete	Blade module metal	F.O. Light module
Miller 0 [01]	F-000.22.510	F-000.22.540	F-000.22.570
Miller 1 [02]	F-000.22.511	F-000.22.541	F-000.22.571
Miller 2 [03]	F-000.22.512	F-000.22.542	F-000.22.572
Miller 3 [04]	F-000.22.513	F-000.22.543	F-000.22.573
Miller 4 [05]	F-000.22.514	F-000.22.544	F-000.22.573

## HEINE® FlexTip+ Fiber Optic (F.O.) Laryngoscope Blade

### A useful Tip for a difficult intubation

✧ Swivelling blade tip

✧ Clear view

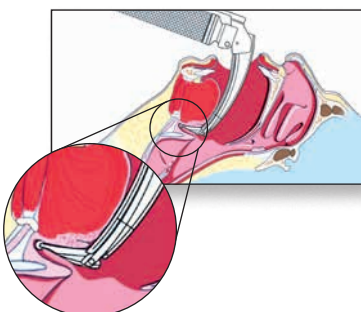
✧ 5 year warranty

The FlexTip+ is a Macintosh Laryngoscope Blade with a tip which is adjustable through 70°. A lever controls the tip angle during intubation to lift the epiglottis, giving a clear view of the vocal cords. Contact with the upper row of teeth and unnecessary pressure on the tongue and soft tissue are avoided.

- ✧ **HEINE HiLite fiber bundle.** With a 4.3 mm dia. and up to 6500 individual micro-fibers for improved light transmission and longer life.
- ✧ **With the alternative of LED or XHL illumination:** With either 3x or 40 % brighter light as with conventional halogen bulbs.
- ✧ **Integrated Fiber Optics for the best possible illumination.**
- ✧ **High quality stainless steel construction.**
- ✧ **Swivelling blade tip facilitates difficult intubation.**
- ✧ **Reduced likelihood of damage** to teeth and soft tissue.
- ✧ **Fits all standard F.O. handles** (green standard). Exception: F.O. Angled Handle.
- ✧ **5 years warranty.** 4000 standard autoclave cycles of 134 °C/5 min. with more than 1000 lux.

#### FlexTip+ F.O. Laryngoscope Blade in case

Mac 3	F-000.22.313
Mac 4	F-000.22.314
Mac 3 and Mac 4	F-000.22.316

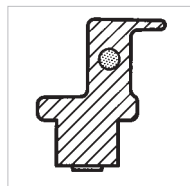


## HEINE® SANALON+ Fiber Optic (F.O.) Laryngoscope Blades

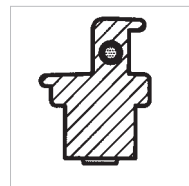
### Reusable Emergency Laryngoscope Blades



- ✦ Reusable F.O. Laryngoscope Blade made of tough, durable SANALON.
- ✦ HEINE HiLite fiber bundle for improved light transmission and longer life.
- ✦ With the alternative of LED or XHL illumination: With either 3x or 40 % brighter light as with conventional halogen bulbs.
- ✦ Tremendous strength with low weight.
- ✦ Rounded edges significantly reduce the risk of injury.
- ✦ Blades do not “freeze” or stick to the tongue at low temperatures.
- ✦ Compatible with all handles to the ISO 7376 (green standard).



Mac 2 end-view



Paed 1 end-view



Miller 2 end-view



Mac 2 side-view



Paed 1 side-view



Miller 2 side view

SANALON+ blades	Overall length	Distal width	
Mac 2	115mm	13mm	F-000.22.202
Mac 3a	145mm	15mm	F-000.22.213
Paed 1	95mm	13mm	F-000.22.221
Miller 2	155mm	13mm	F-000.22.232
Miller 4	212mm	13mm	F-000.22.234

Handle	2.5V
Laryngoscope Handle F.O. SP with bulb	F-001.22.815
XHL Xenon Halogen spare bulb	X-001.88.035
Zipper pouch, without content	F-158.01.000



HEINE SANALON+ Emergency Set please see page 096.



## HEINE® XP Disposable Laryngoscope Blades

### Eliminate cross-infection



XP Miller



[01]



[02]



[03]



[04]



[05]

The Disposable Laryngoscope Blade features the HEINE Classic+ blade shape of the world's best-selling integral fiber optic blade. With proper use the disposable XP blade avoids cross-infection from one patient to the next.

- ✦ **No danger of cross-infection.**
- ✦ **Hygienic and safe.**
- ✦ **Optimum light transmission** by oversize light guide.
- ✦ **Extremely bright light** from the XHL Xenon Halogen bulb in the handle.  
With LED illumination, if preferred.
- ✦ **Blade shape optimized to ease the passage of the tube.**
- ✦ **Patient-friendly** with **reduced risk of injury** or damage to teeth.
- ✦ **Extreme torsional stiffness**, practically unbreakable.
- ✦ **Blades do not "freeze"** or stick to the tongue at low temperatures.
- ✦ **Compatible** with all handles to the ISO 7376 (green standard).

XP Mac



[06]



[07]



[08]



[09]



XP Miller 1 side-view



XP Mac 2 side-view

✦ Hygienic and safe

✦ Extremely bright light

✦ Torsional stiffness

XP blade	Overall length	Distal width	
Miller 0 [01]	80 mm	10 mm	F-000.22.771*
Miller 1 [02]	104 mm	10 mm	F-000.22.772*
Miller 2 [03]	155 mm	13 mm	F-000.22.773*
Miller 3 [04]	195 mm	13 mm	F-000.22.774*
Miller 4 [05]	221 mm	14 mm	F-000.22.775*
Mac 1 [06]	90 mm	9 mm	F-000.22.761*
Mac 2 [07]	114 mm	10 mm	F-000.22.762*
Mac 3 [08]	134 mm	14 mm	F-000.22.763*
Mac 4 [09]	154 mm	14 mm	F-000.22.764*

\* 25 disposable blades individually packed in Dispenser Box.

HEINE XP Emergency Set please see page 096.

ⓧ: Single use only.

## HEINE® XP Disposable Laryngoscope Handle Shell

### Eliminates cross-infection




The Disposable Laryngoscope Handle Shell with bottom cap is powered by the best-selling battery insert for HEINE F.O. handles. The battery insert can be removed from the handle shell after intubation without risk of contamination, when handled properly.

#### XP Disposable Laryngoscope Handle Shell with bottom cap

without battery insert, pack of 25

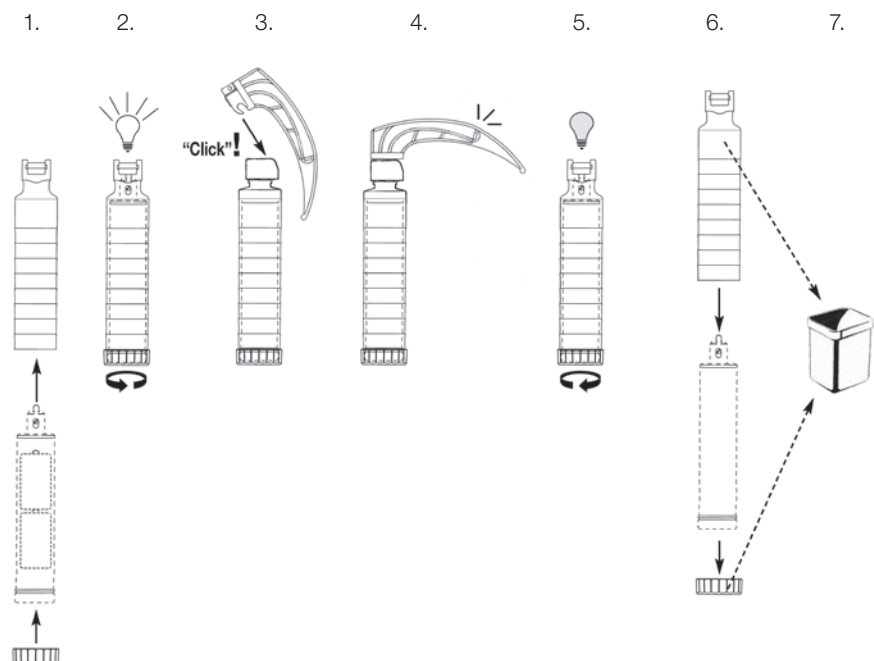
F-000.22.926

Battery insert for F.O. handles	2.5V	3.5V NiMH	3.5V 
Battery insert* for Standard F.O. handles with bottom cap and XHL Xenon Halogen bulb	F-001.22.858	F-002.22.868	F-007.22.868*

XHL Xenon Halogen spare bulb	X-001.88.035	X-002.88.044	X-002.88.044
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\* LED battery insert is incompatible with the XP handle shell.

⊗: Single use only.



The XP Disposable Handle Shell is designed to be the “outer shell” for a standard HEINE battery or rechargeable battery insert (2.5V or 3.5V XHL Xenon Halogen). The HEINE battery insert is placed inside the XP disposable handle shell and the bottom cap is attached. By turning the bottom cap, the handle is turned on, delivering full XHL Xenon Halogen illumination. After the procedure, the user simply unscrews the bottom cap, and slides the clean battery insert out, leaving just the cap, XP handle shell and XP laryngoscope blade to be disposed of.

# Laryngoscope Handles and Sets

HEINE offers the most complete and versatile range of Laryngoscope handles on the market: From various sizes and lengths to 2.5V and 3.5V, in alkaline and rechargeable battery configurations (Lithium and NiMH), to exclusive charge status display functions and table chargers.

Our handles are illuminated by state-of-the-art LEDs or HEINE XHL Xenon Halogen bulbs, both meeting our high quality standards.

Laryngoscope handles are part of our LED<sup>HQ</sup> series, which means LED now in HEINE Quality. They offer perfect luminosity and excellent colour rendering, as well as absolutely homogenous illumination of the pharynx. Due to very efficient thermal management systems integrated into our handles, they offer virtually unlimited working life so that bulb replacement is no longer needed.

LED<sup>HQ</sup>



## HEINE® Standard F.O. Laryngoscope Handle with LED illumination

### LED HQ



[01]

[02]

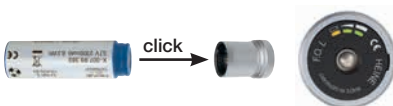
The white LED light is close to daylight and provides homogenous light over the whole examination site with constant electronic control of brightness.

- ✦ **HEINE Standard F.O. Laryngoscope Handle [01]** with LED illumination.  
The LED is situated in the Battery Insert [02].
- ✦ **Very bright, white light** with a reference colour temperature of 6,500 Kelvin.
- ✦ **Enhanced contrast.**
- ✦ **LED 3 times as bright as conventional 3.5V halogen bulbs.**
- ✦ **Working life of the LED:** 50,000 hours.
- ✦ **Indicator Function:** When the dry cell or rechargeable battery capacity is low, brightness is reduced to 30 % to notify the user it is time to replace or charge the batteries.
- ✦ **The handle shell can be sterilized or autoclaved while the battery insert is being charged.** Also compatible with Sterrad® and other low-temperature gas plasma sterilisation procedures.
- ✦ **HEINE Standard F.O. LED handles can be converted from battery to rechargeable specification by exchanging the bottom cap.**
- ✦ **Compatible with all blades to the ISO 7376 (green standard).**

## HEINE® Standard F.O. L Update Option for LED Handle



Charge Status:  
100 – 67 %      66 – 34 %      33 – 1 %



All LED handles can be updated with the Standard F.O. L bottom cap featuring **Charge Status Display**.

- ✦ **Charge Status Display** in the bottom insert. Display lights for 10 seconds when the handle is switched on or removed from the charger to indicate the remaining battery charge.
- ✦ **Two hours charging time** with the NT 300 table charger.
- ✦ **More than 5 hours working time.**
- ✦ **Downwards compatible.** The Li-ion L Rechargeable Battery with Standard F.O. L Rechargeable Handle can also be charged in existing NT200 table chargers.

To upgrade existing laryngoscope handles, please order the Standard F.O. L bottom cap together with the corresponding Li-ion L Battery.

## HEINE® Standard F.O. Laryng. Handle with Halogen illumination



[01]

[02]

- ✚ **HEINE Standard F.O. Laryngoscope Handle [01]** with handle shell and battery insert [02] with XHL Xenon Halogen Technology.
- ✚ **Lightweight and convenient.**
- ✚ The handle **can be powered by either 2.5V batteries or a 3.5V rechargeable battery** for even more light. HEINE F.O. Handles can be converted from battery to rechargeable specification by exchanging the bottom cap.
- ✚ The Standard F.O. Laryngoscope Handle is also available with **Li-ion Technology** and **Charge Status Display** (see below).
- ✚ **The handle shell can be sterilized or autoclaved while the battery insert is being charged.** Also compatible with Sterrad® and other low-temperature gas plasma sterilisation procedures.
- ✚ **Compatible with all blades to the ISO 7376 (green standard).**

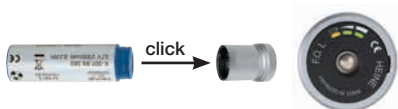
## HEINE® Standard F.O. L Update Option


Charge Status:  
100 – 67 %


66 – 34 %



33 – 1 %



Standard F.O. and F.O. Angled Laryngoscope Handles with XHL Xenon Halogen illumination can be updated with the Standard F.O. L bottom cap featuring **Charge Status Display**.




- ✚ **Charge Status Display** in the bottom insert. Display lights for 10 seconds when the handle is switched on or removed from the charger to indicate the remaining battery charge.
- ✚ **Two hours charging time** with the NT 300 table charger.
- ✚ **2.5 hours working time.**
- ✚ **Downwards compatible.** The Li-ion L Rechargeable Battery with Standard F.O. L Rechargeable Handle can also be charged in existing NT200 table chargers.

To upgrade existing laryngoscope handles, please order the Standard F.O. L bottom cap together with the corresponding Li-ion L Battery.



## HEINE F.O. Laryngoscope Handles

## Ordering Information



LED  Standard F.O. LED Laryngoscope Handle	2.5V	3.5V NiMH	3.5V  
Standard F.O. LED handle, complete [01]	F-008.22.860	F-008.22.863	F-008.22.891
Battery insert without bottom cap [02]	F-008.22.890	F-008.22.890	F-008.22.890*
Bottom cap [03] [04] [05]	F-001.22.861	F-002.22.867	F-002.22.887*
Rechargeable battery [06] [07]	–	X-002.99.382	X-007.99.383
Handle shell [08]	F-000.22.824	F-000.22.824	F-000.22.824
NT300 charger, only (without handle)	–	X-002.99.495	X-002.99.495




Standard F.O. Laryngoscope Handle	2.5V	3.5V NiMH	3.5V  
Standard F.O. handle, compl. [01]	F-001.22.860	F-002.22.863	F-007.22.885
Battery insert without bottom cap [02]	F-001.22.859	F-002.22.859	F-002.22.859
Bottom cap [03] [04] [05]	F-001.22.861	F-002.22.867	F-002.22.887*
Rechargeable battery [06] [07]	–	X-002.99.382	X-007.99.383
Handle shell [08]	F-000.22.824	F-000.22.824	F-000.22.824
Spare bulb	X-001.88.035	X-002.88.044	X-002.88.044
NT300 charger, only (without handle)	–	X-002.99.495	X-002.99.495

\* not compatible with XP Handle Shell.

: Rechargeable handle with charge status display in the bottom insert.

In addition to the Standard F.O. Laryngoscope Handle HEINE offers a lot of further versions of laryngoscope handles to suit the needs of all customers. All handles listed are available both with replaceable and rechargeable batteries (except for the SANALON F.O. SP Laryngoscope handle). Caution: The new small and short LED handles are available as 2.5V battery version (designation 2.5V) and as 2.5V rechargeable version (designation 2.5V NiMH).



LED  Small F.O. LED Laryngoscope Handle	2.5V	2.5V NiMH
Small F.O. LED Handle, complete [01]	F-008.22.800	F-008.22.806*
LED Battery insert without bottom cap [02]	F-008.22.801	F-008.22.801*
Bottom cap [03] [04]	F-000.22.851	F-000.22.852
LED Rechargeable battery M2Z [05]	–	X-001.99.306*
Handle Shell [06]	F-000.22.804	F-000.22.804
NT300 charger only (without handle/without adaptor)	–	X-002.99.495
Two adaptor sets for NT300 Charger	–	X-000.99.086

\*only rechargeable with the NT300 recharging station starting with the serial number SN 101 1000 001.



Small F.O. Laryngoscope Handle	2.5V	3.5V NiMH
Small F.O. Handle, complete [01]	F-001.22.800	F-002.22.806
Battery insert without bottom cap [02]	F-001.22.801	F-002.22.801
Bottom cap [03] [04]	F-000.22.851	F-000.22.852
Rechargeable battery [05]	–	X-002.99.106
Handle Shell [06]	F-000.22.804	F-000.22.804
Spare bulb	X-001.88.035	X-002.88.044
NT300 charger only (without handle/without adaptor)	–	X-002.99.495
Two adaptor sets for NT300 Charger	–	X-000.99.086



## HEINE F.O. Laryngoscope Handles

## Ordering Information



NEW



[01] [02] [03]



[01] [02] [03]



[01] [02] [03] [04]



[01]

LED Short F.O. LED Laryngoscope Handle	2.5V	2.5V NiMH
<b>Short F.O. LED Handle, complete</b>		
Battery version [01] or rechargeable version [02]	<b>F-008.22.812</b>	<b>F-008.22.414*</b>
Rechargeable battery [03]	–	<b>X-001.99.307*</b>
NT300 charger only (without handle)	–	<b>X-002.99.495</b>

\*only rechargeable with the NT300 recharging station starting with the serial number **SN 101 1000 001**.

Short F.O. Laryngoscope Handle	2.5V	3.5V NiMH
<b>Short F.O. Handle, complete</b> 2,5V [01] or 3,5V [02]	<b>F-001.22.812</b>	<b>F-002.22.414</b>
Rechargeable battery K3Z [03]	–	<b>X-002.99.393</b>
Spare bulb	<b>X-001.88.035</b>	<b>X-002.88.044</b>
NT300 charger only (without handle)	–	<b>X-002.99.495</b>

The Fiber Optic Angled Handle can be fitted with any HEINE Fiber Optic blade. The angle of the blade to the handle gives a significantly better view for intubation e.g. in cases of injury to the neck. One F.O. Angled Handle for all F.O. Blades (except FlexTip).

F.O. Angled Handle	2.5V	3.5V NiMH	3.5V LI ION
<b>F.O. Angled Handle, complete</b> [01]	<b>F-001.22.941</b>	<b>F-002.22.942</b>	<b>F-007.22.945</b>
Bottom cap [02] [03]	<b>X-000.99.119</b>	<b>X-002.99.412</b>	
Rechargeable battery [04]	–	<b>X-002.99.382</b>	
Spare bulb	<b>X-001.88.035</b>	<b>X-002.88.044</b>	<b>X-002.88.044</b>
NT300 charger, only (without handle)	–	<b>X-002.99.495</b>	<b>X-002.99.495</b>

Cost-effective high quality battery handle with SANALON connector. Not recommended for use with metal blades.

F.O. SP Laryngoscope Handle	2.5V
<b>F.O. SP Handle, complete</b> [01]	<b>F-001.22.815</b>
Spare bulb	<b>X-001.88.035</b>

## HEINE® NT300 Table Charger and Adaptors



[01] [02] [03]

All rechargeable HEINE F.O. Laryngoscope Handles can be charged in the HEINE NT300 table charger as well as HEINE NT200 table charger). Exceptions are the rechargeable versions of the Short and the Small F.O. L LED Handles\* Some require the use of an adaptor. For detailed information about the NT300 table charging station and adaptors please see page 157.

NT300 table charger	
Charger without handle, with adaptors for Standard F.O., Short F.O. and F.O. Angled Laryngoscope Handles [03]	<b>X-002.99.495</b>
Two adaptors for Small F.O. Laryng. Rechargeable Handles [01] + [02]	<b>X-000.99.086</b>

\*Due to the increased demands on the charging management function of these rechargeable batteries, a latest generation HEINE NT300 recharging station must be used to properly and fully recharge these rechargeable batteries. Latest generation HEINE NT300 recharging stations can be identified by the serial number on the underside of the recharging station. Recharging stations starting with the serial number **SN 101 1000 001** are compatible.

## HEINE® Classic+ Fiber Optic (F.O.) Laryngoscope Sets

Set complete with: **Paed 1, Mac 2, Mac 3 blades**  
 spare XHL Xenon Halogen bulb  
 zipper case



Classic+ Sets	2.5V	3.5V NiMH	3.5V Li-ion L
with Standard F.O. Battery Handle	<b>F-119.10.860</b>		
with Standard F.O. Rechargeable Handle with NiMH Battery and NT 300 charger		<b>F-119.20.865</b>	
Ⓛ with Standard F.O. L Rechargeable Handle with Li-ion L Battery and NT 300 charger			<b>F-119.29.865</b>

As above, but with LED illumination, without spare bulb



LED Classic+ Sets	2.5V	3.5V NiMH	3.5V Li-ion L
with Standard F.O. LED Battery Handle	<b>F-119.18.860</b>		
with Standard F.O. LED Rechargeable Handle with NiMH Battery and NT 300 charger		<b>F-119.28.865</b>	
Ⓛ with Standard F.O. L LED Rechargeable Handle with Li-ion L Battery and NT 300 charger			<b>F-119.98.865</b>

Ⓛ: Rechargeable handle with charge status display in the bottom insert.



## HEINE® Classic+ Fiber Optic (F.O.) Laryngoscope Sets

Set complete with: **Paed 1, Mac 2, Mac 3, Mac 4 blades**  
spare XHL Xenon Halogen bulb  
zipper case



Classic+ Sets	2.5V	3.5V NiMH	3.5V Li-ion L
with Standard F.O. Battery Handle	<b>F-120.10.860</b>		
with Standard F.O. Rechargeable Handle with NiMH Battery and NT 300 charger		<b>F-120.20.865</b>	
Ⓛ with Standard F.O. L Rechargeable Handle with Li-ion L Battery and NT 300 charger			<b>F-120.29.865</b>

As above, but with LED illumination, without spare bulb






LED Classic+ Sets	2.5V	3.5V NiMH	3.5V Li-ion L
with Standard F.O. LED Battery Handle	<b>F-120.18.860</b>		
with Standard F.O. LED Rechargeable Handle with NiMH Battery and NT 300 charger		<b>F-120.28.865</b>	
Ⓛ with Standard F.O. L LED Rechargeable Handle with Li-ion L Battery and NT 300 charger			<b>F-120.98.865</b>

Ⓛ: Rechargeable handle with charge status display in the bottom insert.

## HEINE® FlexTip+ Fiber Optic (F.O.) Laryngoscope Blade Sets







FlexTip+ F.O. Laryngoscope Set complete with: **Blade Mac 3**  
spare XHL Xenon Halogen bulb  
case

FlexTip+ Sets	2.5V	3.5V NiMH	3.5V  
with Standard F.O. Battery Handle	<b>F-227.10.860</b>		
with Standard F.O. Rechargeable Handle with NiMH Battery and NT 300 charger		<b>F-227.20.865</b>	
 with Standard F.O. L Rechargeable Handle with Li-ion L Battery and NT 300 charger			<b>F-227.29.865</b>



As above, but with LED illumination, without spare bulb

 FlexTip+ Sets	2.5V	3.5V NiMH	3.5V  
with Standard F.O. LED Battery Handle	<b>F-227.18.860</b>		
with Standard F.O. LED Rechargeable Handle with NiMH Battery and NT 300 charger		<b>F-227.28.865</b>	
 with Standard F.O. L LED Rechargeable Handle with Li-ion L Battery and NT 300 charger			<b>F-227.98.865</b>

Case for FlexTip+ F.O. Laryngoscope Sets F-227, F-229 or F-230	<b>F-227.01.000</b>
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: Rechargeable handle with charge status display in the bottom insert.

## HEINE® FlexTip+ Fiber Optic (F.O.) Laryngoscope Blade Sets



FlexTip+ F.O. Laryngoscope Set complete with: **Blade Mac 4**  
spare XHL Xenon Halogen bulb  
case

FlexTip+ Sets	2.5V	3.5V NiMH	3.5V Li-ion
with Standard F.O. Battery Handle	<b>F-229.10.860</b>		
with Standard F.O. Rechargeable Handle with NiMH Battery and NT 300 charger		<b>F-229.20.865</b>	
Ⓛ with Standard F.O. L Rechargeable Handle with Li-ion L Battery and NT 300 charger			<b>F-229.29.865</b>



As above, but with LED illumination, without spare bulb

LED <sup>HD</sup> FlexTip+ Sets	2.5V	3.5V NiMH	3.5V Li-ion
with Standard F.O. LED Battery Handle	<b>F-229.18.860</b>		
with Standard F.O. LED Rechargeable Handle with NiMH Battery and NT 300 charger		<b>F-229.28.865</b>	
Ⓛ with Standard F.O. L LED Rechargeable Handle with Li-ion L Battery and NT 300 charger			<b>F-229.98.865</b>




Case for FlexTip+ F.O. Laryngoscope Sets F-227, F-229 or F-230 **F-227.01.000**

Ⓛ: Rechargeable handle with charge status display in the bottom insert.

## HEINE® FlexTip+ Fiber Optic (F.O.) Laryngoscope Blade Sets







FlexTip+ F.O. Laryngoscope Set complete with: **Blades Mac 3, Mac 4**  
spare XHL Xenon Halogen bulb  
case

FlexTip+ Sets	2.5V	3.5V NiMH	3.5V  
with Standard F.O. Battery Handle	<b>F-230.10.860</b>		
with Standard F.O. Rechargeable Handle with NiMH Battery and NT 300 charger		<b>F-230.20.865</b>	
 with Standard F.O. L Rechargeable Handle with Li-ion L Battery and NT 300 charger			<b>F-230.29.865</b>



As above, but with LED illumination, without spare bulb

 FlexTip+ Sets	2.5V	3.5V NiMH	3.5V  
with Standard F.O. LED Battery Handle	<b>F-230.18.860</b>		
with Standard F.O. LED Rechargeable Handle with NiMH Battery and NT 300 charger		<b>F-230.28.865</b>	
 with Standard F.O. L LED Rechargeable Handle with Li-ion L Battery and NT 300 charger			<b>F-230.98.865</b>




Case for FlexTip+ F.O. Laryngoscope Sets F-227, F-229 or F-230	<b>F-227.01.000</b>
FlexTip+ Mac 3 and Mac 4, without handle, in case	<b>F-000.22.316</b>

: Rechargeable handle with charge status display in the bottom insert.

## HEINE® Mac Modular+ Fiber Optic (F.O.) Laryngoscope Sets







Laryngoscope Set complete with: **F.O. Modular+ blade Mac 1, Mac 2, Mac 3 and Mac 4**  
spare XHL Xenon Halogen bulb  
zipper case

Modular+ Sets	2.5V	3.5V NiMH	3.5V  
with Standard F.O. Battery Handle	<b>F-228.10.860</b>		
with Standard F.O. Rechargeable Handle with NiMH Battery and NT 300 charger		<b>F-228.20.865</b>	
 with Standard F.O. L Rechargeable Handle with Li-ion L Battery and NT 300 charger			<b>F-228.29.865</b>



As above, but with LED illumination, without spare bulb

 Modular+ Sets	2.5V	3.5V NiMH	3.5V  
with Standard F.O. LED Battery Handle	<b>F-228.18.860</b>		
with Standard F.O. LED Rechargeable Handle with NiMH Battery and NT 300 charger		<b>F-228.28.865</b>	
 with Standard F.O. L LED Rechargeable Handle with Li-ion L Battery and NT 300 charger			<b>F-228.98.865</b>

: Rechargeable handle with charge status display in the bottom insert.



## HEINE® SANALON+ Emergency Laryngoscope Sets



**SANALON+ Emergency Laryngoscope Set with blades Paed 1, Mac 2 and Mac 3a, spare XHL Xenon Halogen bulb, F.O. SP Handle 2.5V, two alkaline batteries, in case**

**F-155.10.815**

**SANALON+ Emergency Laryngoscope Set with blades Mac 2 and Mac 3a, F.O. SP Handle 2.5V, two alkaline batteries, in zipper pouch**

**F-158.10.815**



**SANALON+ Emergency Laryngoscope Set with blades Paed 1 and Mac 3a, F.O. SP Handle 2.5V, two alkaline batteries, in zipper pouch**

**F-163.10.815**

## HEINE® XP Emergency Set with XP Disposable Blades



Specially-developed for emergency-use featuring the HEINE XP® Disposable Laryngoscope Blades. These sets are equipped with XP blades of the same anatomically-correct shape as the Classic+ blade, the world's best-selling F.O. blade with integrated fiber optic bundle.

The HEINE XP Emergency Laryngoscope Set is complete with the 5 most frequently-used blade types and sizes for infants and adults. Instantly-ready for use with F.O. SP Handle and replaceable batteries.

### XP Emergency Set

2.5V

**with blades Miller 0, Miller 1, Mac 2, Mac 3, Mac 4, F.O. SP Handle 2.5V, two alkaline batteries, in case**

**F-257.10.815**

XP* Blades	Overall Length	Distal Width	
Miller 0	80mm	10mm	F-000.22.771*
Miller 1	104mm	10mm	F-000.22.772*
Mac 2	114mm	10mm	F-000.22.762*
Mac 3	134mm	14mm	F-000.22.763*
Mac 4	154mm	14mm	F-000.22.764*

\* 25 disposable blades (25) individually packed in Dispenser Box.

### XP Emergency Set Accessories

2.5V

F.O. SP Laryngoscope Handle 2.5V, with bulb

**F-001.22.815**

XHL Xenon Halogen spare bulb for F.O. SP Handle

**X-001.88.035**

Refill assortment of 5 XP Blades,

Miller 0, 1, Mac 2, 3, 4 (one each, 5 pieces in total)

**F-000.22.740**