

**HEINE**

LARYNGOSCOPES



## ▣ CONTENT

### Page

003	HEINE
005	Overview Laryngoscopes
006	Classic + Fiber Optic Blades
008	Modular + Fiber Optic Blades
010	FlexTip + Fiber Optic Blades
011	SANALON + Fiber Optic Blades
012	XP Disposable Laryngoscope Blades
013	XP Disposable Laryngoscope Handle Shell
014	Laryngoscopes Handles
017	NT300 Charger and Adaptors
018	Classic + Fiber Optic Laryngoscope Sets
019	FlexTip + Fiber Optic Laryngoscope Sets
022	Modular + Fiber Optic Laryngoscope Sets
023	Emergency Sets

For information on other HEINE products, please order the  
HEINE Master Catalogue or visit [www.heine.com](http://www.heine.com).



## QUALITY HAS A NAME

### HEINE



HEINE Optotechnik, with corporate headquarters to the south of Munich, has been developing and producing top-quality diagnostic instruments since 1946. Healthcare professionals around the world consider HEINE the premier name for innovative design, performance, quality and overall value. Today, HEINE sets the standard by which all other diagnostic instruments are measured.

Still a family owned company, HEINE is now the world's largest exporter of primary, hand-held diagnostic instruments.

#### Engineering / Manufacturing

Working in modern production facilities in Germany and Switzerland, HEINE engineers contribute their expertise in optical fibers and glass, special alloys, advanced thermoplastics and other related fields to continually improve HEINE instruments with state-of-the-art concepts, technology and manufacturing techniques. The results of our continuing efforts are innovative designs that enhance diagnostic skills.

#### Sales and Service

More than 5,000 HEINE medical instrument distributors are located throughout the world. This means that the complete Heine line is not only available everywhere, but that trained and qualified personnel stand ready to answer your questions and service your instrument should the need ever arise. Wherever your practice is or may take you, you'll find a Heine distributor or representative nearby.

We look forward to hearing from you and to the opportunity of meeting your diagnostic instruments needs.

Due to local regulations, some products may not be available in your area.

#### Warranty

HEINE offers you a guarantee which reflects the quality and reliability of our products.

All products confirm to the European Medical Guidelines MDD 93/42 EG. They carry the CE mark.

Standard 5 Year Parts and Labor Warranty: All HEINE products carry a 5 year parts and labor warranty against defects in materials and workmanship. This excludes disposable and consumable items. For details please visit [www.heine.com](http://www.heine.com). HEINE. Simply the best warranty in the market.

#### Special Warranties:

Laryngoscope Blade Fibre Optic Bundle Performance Guarantee: HEINE HiLite® Fiber Optic bundle in Classic+, Modular+ and Sanalon+ Laryngoscope carry 5 year Performance Guarantee that ensures that the output will not fall below 1,000 lux, even after repeated Autoclave cycles (based on 4,000 cycles at 134°C / 5 min). This includes blades that are cleaned, sterilized, disinfected or autoclaved according to approved guidelines as stated in the "Care and Maintenance" instructions. For details please visit [www.heine.com](http://www.heine.com).



# Laryngoscopes

## THE HEINE F.O. LARYNGOSCOPE RANGE WITH THE „+“



### 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 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



Classic+ Macintosh	Classic+ Miller	Classic+ WIS	Classic+ Paed	Modular+ Macintosh	Modular+ Miller	FlexTip+	SANALON+ Macintosh	SANALON+ Paed	SANALON+ Miller	XP Macintosh	XP Miller
-----------------------	--------------------	-----------------	------------------	-----------------------	--------------------	----------	-----------------------	------------------	--------------------	-----------------	--------------

Size											
00	<input type="checkbox"/>	<input type="checkbox"/>									
0	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>					<input type="checkbox"/>
1	<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	<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"/>
3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>
3a							<input type="checkbox"/>				
3m	<input type="checkbox"/>										
4	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	<input type="checkbox"/>										
Material											
Stainless Steel	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					
SANALON					<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Polycarbonate / Acrylic										<input type="checkbox"/>	<input type="checkbox"/>
Diameter of HiLite® Fiber Bundle in mm											
	4.3	3.7	3.7	3.6	3.4	3.0	4.3	3.6	3.6	3.7	n/a
											n/a
Reusable / Sterilizable											
	<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
Sterilisation without Disassembly											
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Suitable for low ambient Temperatures											
							<input type="checkbox"/>	<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
4000 Ster. Cycl.	<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
Page	073	074	074	074	075	076	077	078	078	078	079

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 4.3mm dia. and up to 6500 individual micro-fibers for improved light transmission and longer life.
- ✦ **Both ends of the large fiber bundle (4.3mm Ø)** 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



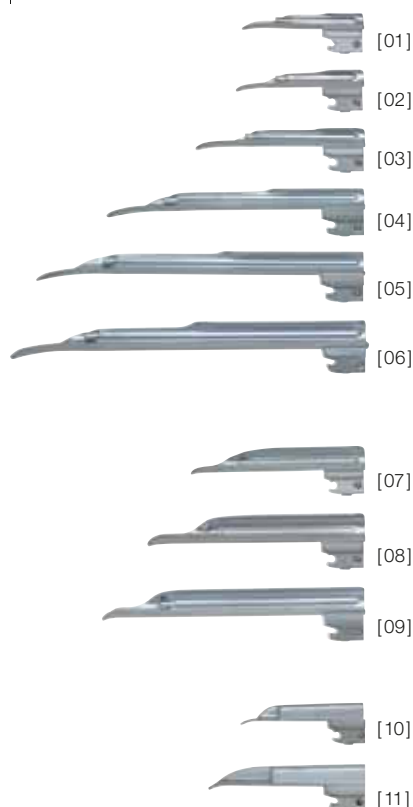
Mac 3 side-view

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



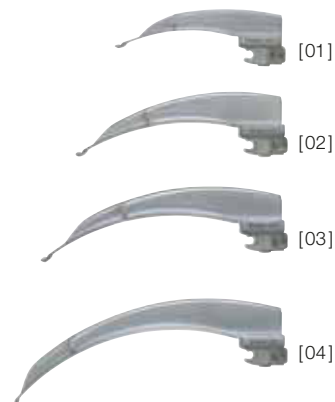
Paed 1 side-view

- ✦ 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

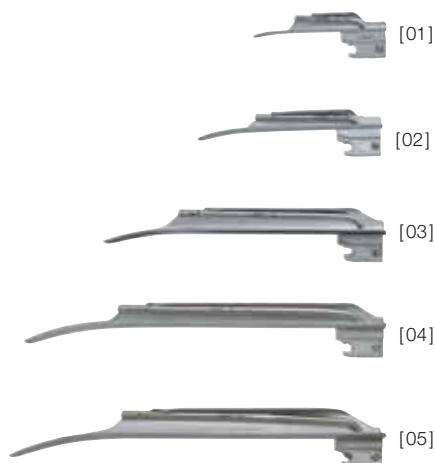
Dimensions	Overall length	Distal width
Mac 1	95mm	12mm
Mac 2	114mm	15mm
Mac 3	133mm	15mm
Mac 4	156mm	15mm

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

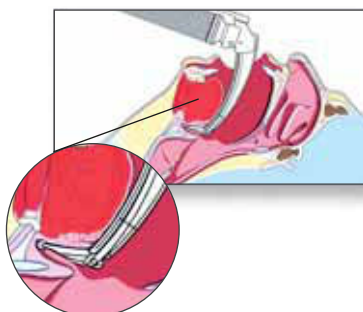
✧ 5 year warranty

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 4.3mm 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

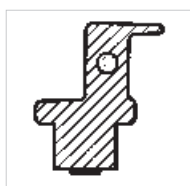


## HEINE SANALON+® Fiber Optic (F.O.) Laryngoscope Blades

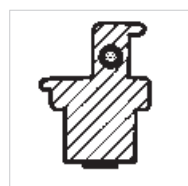
### Reusable Emergency Laryngoscope Blades



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

\* 25 disposable blades individually packed in Dispenser Box.

ⓧ: 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

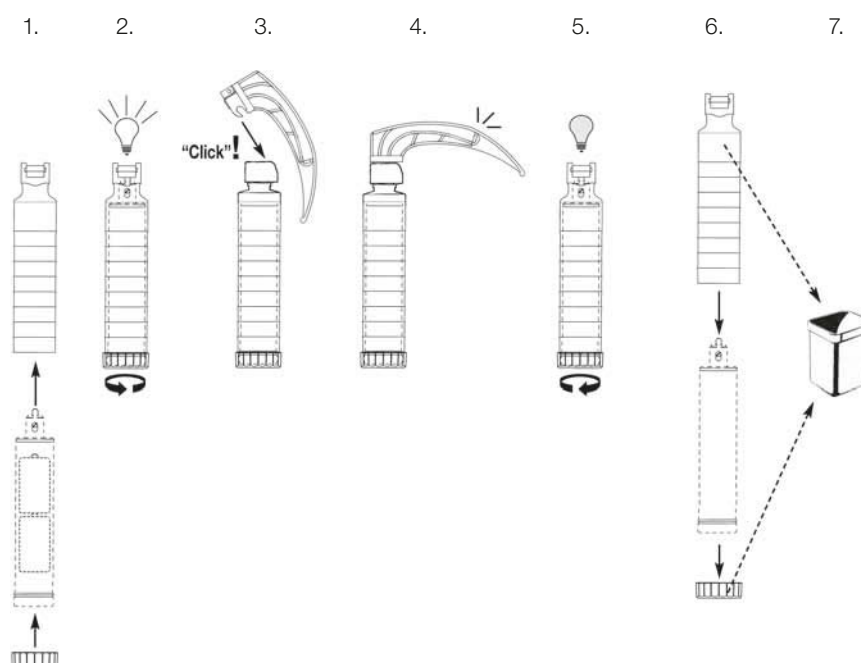
**X-001.88.035**

**X-002.88.044**

**X-002.88.044**

\* Standard F.O.  and F.O.  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

The versatile HEINE range of handles offer 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 NT300 charger.

The handles are illuminated by state-of-the-art LEDs or HEINE XHL Xenon Halogen bulbs.





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



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.
- ✦ **Early-Warning Function:** If the dry batteries or rechargeable battery is partially-discharged, the brightness reduces automatically to 33 %. It is still bright enough to intubate (like a handle with halogen bulb) but reminds you to recharge soon.
- ✦ **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).**

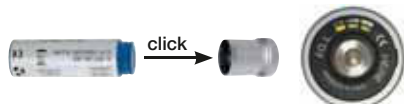
## HEINE Standard F.O. L Update Option for LED Handle



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.
- ✦ **Ready-to-use Function:** If the handle is switched on when replaced in the charger, it automatically switches off. When removed, it switches on again at the previously-selected brightness.
- ✦ **Two hours charging time** with the NT 300 Charger.
- ✦ **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 Chargers.

To upgrade existing laryngoscope handles, please order the Standard F.O. L bottom cap together with the corresponding Li-ion L Battery (order numbers in the table below).

## HEINE Standard F.O. Laryngoscope Handles with LED illumination

### Ordering Information



 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
NT 300 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.



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



- ✚ **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



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.
- ✚ **Ready-to-use Function:** If the handle is switched on when replaced in the charger, it automatically switches off. When removed, it switches on again at the previously-selected brightness.
- ✚ **Two hours charging time** with the NT 300 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 Chargers.

To upgrade existing laryngoscope handles, please order the Standard F.O. L bottom cap together with the corresponding Li-ion L Battery (order numbers in the table below).

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

### Ordering Information



Standard F.O. Laryngoscope Handle	2.5V	3.5V NiMH	3.5V Li-ion 
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.



## HEINE F.O. Laryngoscope Handles with XHL illumination

In addition to the top-selling Standard F.O. Laryngoscope Handle HEINE offers further versions of halogen-illuminated laryngoscope handles to suit the needs of all customers and to match the versatile HEINE laryngoscope blade program. All handles listed below are also available with rechargeable batteries, except for the SANALON (F.O. SP) Laryngoscope Handle.



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



[01] [02] [03]



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



[01]

Small F.O. Laryngoscope Handle	2.5V	3.5V NiMH
<b>Small F.O. Handle, complete [01]</b>	<b>F-001.22.800</b>	<b>F-002.22.806</b>
Battery insert with bottom cap [02]	F-001.22.802	F-002.22.802
Rechargeable battery [03]	–	X-002.99.106
Handle Shell [04]	F-000.22.804	F-000.22.804
Spare bulb	X-001.88.035	X-002.88.044
NT 300 Charger only (without handle/without adaptor)	–	X-002.99.495
Two adaptor sets for NT300 Charger	–	X-000.99.086

Short F.O. Laryngoscope Handle	2.5V	3.5V NiMH
<b>Short F.O. Handle, complete [01] + [02]</b>	<b>F-001.22.812</b>	<b>F-002.22.414</b>
Rechargeable battery [03]	–	X-002.99.393
Spare bulb	X-001.88.035	X-002.88.044
NT 300 Charger only (without handle)	–	X-002.99.495

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 [01]</b>	<b>F-001.22.941</b>	<b>F-002.22.942</b>	<b>F-007.22.945</b>
Bottom cap [02] [03]	X-000.99.119	X-002.99.412	
Rechargeable battery [04]	–	X-002.99.382	
Spare bulb	X-001.88.035	X-002.88.044	X-002.88.044
NT 300 Charger, only (without handle)	–	X-002.99.495	X-002.99.495

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

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

## HEINE NT 300® Charger and Adaptors

All rechargeable HEINE F.O. Laryngoscope Handles can be charged in the HEINE NT300 Charger (as well as HEINE NT200 or NicaTron Chargers). The only exception is the Standard F.O. L LED Handle, which is not compatible with the NicaTron Charger. Some require the use of an adaptor.






[01] [02] [03]

NT 300 Charger	3.5V
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>

## 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  
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

 Classic+ Sets	2.5V	3.5V NiMH	3.5V  
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>







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  
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




 Classic+ Sets	2.5V	3.5V NiMH	3.5V  
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>
--	---------------------

: 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  
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

 FlexTip+ Sets	2.5V	3.5V NiMH	3.5V  
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.

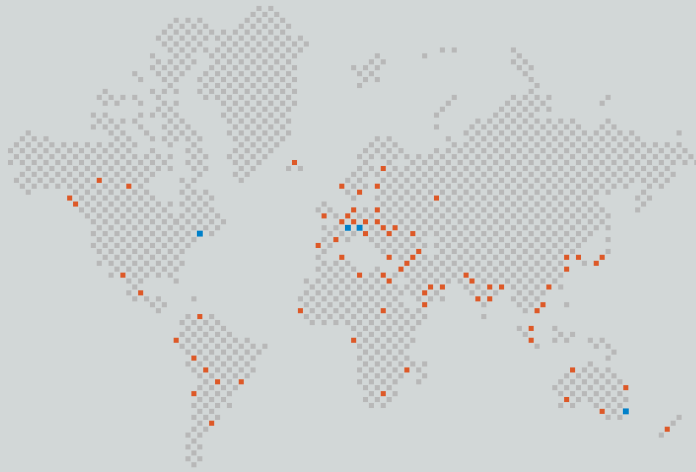
XP Emergency Set	2.5V
with blades Miller 0, Miller 1, Mac 2, Mac 3, Mac 4, F.O. SP Handle 2.5V, two alkaline batteries, in case	<b>F-257.10.815</b>

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

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

XP Emergency Set Accessories	2.5V
F.O. SP Laryngoscope Handle 2.5V, with bulb	<b>F-001.22.815</b>

XHL Xenon Halogen spare bulb for F.O. SP Handle	<b>X-001.88.035</b>
Refill assortment of 5 XP Blades, Miller 0, 1, Mac 2, 3, 4 (one each, 5 pieces in total)	<b>F-000.22.740</b>



■ HEINE SUBSIDIARY COMPANIES  
■ HEINE REPRESENTATIVES

**A company makes history and gives a name to outstanding product quality: HEINE.**

Founded in 1946, family owned, rich in tradition and today international market leader in a complete range of diagnostic instruments. HEINE products meet all international standards (ISO/CE) and represent the leading edge in precision and ergonomic design. Ongoing dedication to research and development has created a solid and diverse technology base for continued quality and product leadership. Over 500 employees worldwide contribute to this success.

[www.heine.com](http://www.heine.com)

**GERMANY**

HEINE Optotechnik GmbH & Co. KG  
82211 Herrsching  
Kientalstr. 7  
Tel. +49 (0) 81 52-38 0  
Fax +49 (0) 81 52-3 82 02  
E-Mail: [info@heine.com](mailto:info@heine.com)

**NORTH AMERICA**

HEINE USA LTD.  
10 Innovation Way  
Dover, NH 03820  
Tel. (603) 7 42-71 03  
Fax (603) 7 42-72 17  
Toll Free (800) 367-4872  
E-Mail: [service@heine-na.com](mailto:service@heine-na.com)

**AUSTRALIA**

HEINE AUSTRALIA PTY. LTD.  
Unit 9, 98 Old Pittwater Road  
P.O. Box 717 Brookvale 2100  
New South Wales  
Tel. +61 (0) 2-99 38 95 00  
Fax +61 (0) 2-99 39 23 05  
E-Mail: [info@heine.com.au](mailto:info@heine.com.au)

**SWITZERLAND**

HEINE (Schweiz) AG  
Tobelackerstraße 9  
CH-8212 Neuhausen am Rheinfall  
Tel. +41 (0) 52-6 72 22 66  
Fax +41 (0) 52-6 72 63 77  
E-Mail: [heine-schweiz@schaffhausen.ch](mailto:heine-schweiz@schaffhausen.ch)

We reserve the right to change specification without notice.

Your distributor

11/11. A-000.00.225 e

