

## HEINE Standard F.O. LED Laryngoscope Handles

DATA			
Description	Standard F.O. LED Laryngoscope Handle 2,5V	Standard F.O. LED Laryngoscope Handle 3,5V NiMH	Standard F.O. LED Laryngoscope Handle 3,5V Li ION L
Catalogue Number	F-008.22.860	F-008.22.863	F-008.22.891
Date	07.2013	07.2013	07.2013
GENERAL			
Regulation	CE; FDA	CE; FDA	CE; FDA
Weight handle complete without battery/accu without blades	approx. 254g	approx. 252g	approx. 260g
Weight insert without bottom cap	approx. 74g	approx. 74g	approx. 74g
Dimensions packaging	approx. 187mm x 66mm x 47mm	approx. 187mm x 66mm x 47mm	approx. 187mm x 66mm x 47mm
Dimensions handle with bottom caps (without packaging)	approx. 162mmx31mm	approx. 162mmx31mm	approx. 162mmx31mm
Material	used material: stainless steel, electrical contact: brass, silver, nickel	used material: stainless steel, electrical contact: brass, silver, nickel	used material: stainless steel, electrical contact: brass, silver, nickel
REACH/RoHS	REACH & RoHS compliant	REACH & RoHS compliant	REACH & RoHS compliant
Phthalate	Contains no Phthalates	Contains no Phthalates	Contains no Phthalates
Biocompatibility	The medical device does not have patient contact per intended use. Therefore the ISO 10993 is not applicable	The medical device does not have patient contact per intended use. Therefore the ISO 10993 is not applicable	The medical device does not have patient contact per intended use. Therefore the ISO 10993 is not applicable
Latex	Product is Latex free	Product is Latex free	Product is Latex free
Surface	chrome-plated	chrome-plated	chrome-plated
Environmental conditions operation	Temp.: +5°C to +40°C, relative humidity: 10%-75%, air pressure: 700hPa to 1060hPa	Temp.: +5°C to +40°C, relative humidity: 10%-75%, air pressure: 700hPa to 1060hPa	Temp.: +5°C to +40°C, relative humidity: 10%-75%, air pressure: 700hPa to 1060hPa
Environmental conditions transport and storage	Temp.: -40°C to +70°C, relative humidity: 10%-95%, air pressure: 500hPa to 1060hPa	Temp.: -40°C to +70°C, relative humidity: 10%-95%, air pressure: 500hPa to 1060hPa	Temp.: -40°C to +70°C, relative humidity: 10%-95%, air pressure: 500hPa to 1060hPa
Environmental conditions for batteries and rechargeable batteries in storage and transport	Temp.: -20°C to +50°C Humidity: up to 85% r.h.	Temp.: -20°C to +50°C Humidity: up to 85% r.h.	Temp.: -20°C to +50°C Humidity: up to 85% r.h.
Durability	5 years warranty	5 years warranty	5 years warranty
Operating elements	n/a	n/a	n/a
Power Supply	2 Drycells type LR14	NiMH battery pack X-002.99.382	Li-ION L battery pack X-007.99.383
Accessories	Bottomcap F-001.22.861	Bottomcap F-002.22.867	Bottomcap F-002.22.887
MECHANICAL			
Connections	for use with "Green Standard" Laryngoscope blades according to EN ISO7376	for use with "Green Standard" Laryngoscope blades according to EN ISO7376	for use with "Green Standard" Laryngoscope blades according to EN ISO7376
Imprints	Handle head: Site 1: "HEINE Germany" and "CE" Site 2: Ref Nr. green ring below handle head Battery insert: Heine Germany REF Nr SN Nr	Handle head: Site 1: "HEINE Germany" and "CE" Site 2: Ref Nr. green ring below handle head Battery insert: Heine Germany REF Nr SN Nr	Handle head: Site 1: "HEINE Germany" and "CE" Site 2: Ref Nr. green ring below handle head Battery insert: Heine Germany REF Nr SN Nr
CLEANING, STERILIZATION			
Handle shell Cleaning Desinfection Sterilisation	The handle shell must either be manually (in an immersion bath) or mechanically cleaned and disinfected. Sterilization (steam pressure sterilization at at least 132 °C (max. 134°C) for 3 min.) must subsequently be performed. Recommended agents: Cleaning agent: Neodisher® MediClean Disinfecting agent: EU: rotasept®; USA: Cidex®OPA Solution Recommended program for mechanical cleaning and disinfection: Vario TD program with disinfection lasting at least 5 min. at 93 °C or an alternative, comparable program. Recommended sterilization programs: fractionated vacuum procedure (3 times) or gravitation procedure (3 times)  <b>For full cleaning, disinfection and sterilisation guidelines please refer to the Instructions for Use.</b>	The handle shell must either be manually (in an immersion bath) or mechanically cleaned and disinfected. Sterilization (steam pressure sterilization at at least 132 °C (max. 134°C) for 3 min.) must subsequently be performed. Recommended agents: Cleaning agent: Neodisher® MediClean Disinfecting agent: EU: rotasept®; USA: Cidex®OPA Solution Recommended program for mechanical cleaning and disinfection: Vario TD program with disinfection lasting at least 5 min. at 93 °C or an alternative, comparable program. Recommended sterilization programs: fractionated vacuum procedure (3 times) or gravitation procedure (3 times)  <b>For full cleaning, disinfection and sterilisation guidelines please refer to the Instructions for Use.</b>	The handle shell must either be manually (in an immersion bath) or mechanically cleaned and disinfected. Sterilization (steam pressure sterilization at at least 132 °C (max. 134°C) for 3 min.) must subsequently be performed. Recommended agents: Cleaning agent: Neodisher® MediClean Disinfecting agent: EU: rotasept®; USA: Cidex®OPA Solution Recommended program for mechanical cleaning and disinfection: Vario TD program with disinfection lasting at least 5 min. at 93 °C or an alternative, comparable program. Recommended sterilization programs: fractionated vacuum procedure (3 times) or gravitation procedure (3 times)  <b>For full cleaning, disinfection and sterilisation guidelines please refer to the Instructions for Use.</b>
Battery insert Cleaning Desinfection Sterilisation	The battery insert including the bottom cap must be manually cleaned and disinfected (wiping cleaning and wiping disinfection). The battery insert including the bottom cap is not suited to mechanical processing (cleaning, disinfection or sterilization). Recommended agents: Cleaning agent: Neodisher® MediClean Disinfecting agent: EU: Mikrobac® Tissues; USA: disposable cloths soaked in Cidex®OPA Solution  <b>For full cleaning, disinfection and sterilisation guidelines please refer to the Instructions for Use.</b>	The battery insert including the bottom cap must be manually cleaned and disinfected (wiping cleaning and wiping disinfection). The battery insert including the bottom cap is not suited to mechanical processing (cleaning, disinfection or sterilization). Recommended agents: Cleaning agent: Neodisher® MediClean Disinfecting agent: EU: Mikrobac® Tissues; USA: disposable cloths soaked in Cidex®OPA Solution  <b>For full cleaning, disinfection and sterilisation guidelines please refer to the Instructions for Use.</b>	The battery insert including the bottom cap must be manually cleaned and disinfected (wiping cleaning and wiping disinfection). The battery insert including the bottom cap is not suited to mechanical processing (cleaning, disinfection or sterilization). Recommended agents: Cleaning agent: Neodisher® MediClean Disinfecting agent: EU: Mikrobac® Tissues; USA: disposable cloths soaked in Cidex®OPA Solution  <b>For full cleaning, disinfection and sterilisation guidelines please refer to the Instructions for Use.</b>
LIGHT			
Typ	LED	LED	LED
Maintanance	Check the performance of the (rechargeable) batteries routinely and change them if necessary.HEINE F.O. LED Laryngoscope Handles do not require regular service. The LED cannot be replaced by the user.	Check the performance of the (rechargeable) batteries routinely and change them if necessary.HEINE F.O. LED Laryngoscope Handles do not require regular service. The LED cannot be replaced by the user.	Check the performance of the (rechargeable) batteries routinely and change them if necessary.HEINE F.O. LED Laryngoscope Handles do not require regular service. The LED cannot be replaced by the user.
Power / current consumption	> 1 Watt ≥ 7.000 lux	> 1 Watt ≥ 7.000 lux	> 1 Watt ≥ 7.000 lux
Luminous intensity (measured at the distal tip of a HEINE Classic+ MAC3 blade);			
Colour temperature	5.000K +/-500	5.000K +/-500	5.000K +/-500
Colour rendering	Ra typ. ≥ 80, R9 = typ. >20	Ra typ. ≥ 80, R9 = typ. >20	Ra typ. ≥ 80, R9 = typ. >20
Medium life expectance	20.000h (LED)	20.000h (LED)	20.000h (LED)
Operating times	ca. 13h100% brightness, >30 min Fade-Out	ca. 2h 100% brightness, >30 min Fade-Out	ca. 4h 100% brightness, >30 min Fade-Out