

# HSE INTUBATION LARYNGOSCOPE

USER'S MANUAL



73-5072: HSE INTUBATION LARYNGOSCOPE



**HUGO SACHS ELEKTRONIK**

a division of **Harvard Bioscience, Inc.**

## Table of Content

Warranty	3
Out of warranty service	3
Repair facilities and parts	3
Safety Information	4
Introduction	5
Product Overview	5
Key features	5
Unpacking and inspection	5
Setting up the system	6
Switching on the laryngoscope	6
Changing the light intensity	6
Switching off the laryngoscope	6
Specifications	7
Servicing and maintenance	7
Return shipment	7
Order information	7

# Warranty

## Research Use Only

### Manufacturer:

**Hugo Sachs Elektronik-Harvard Apparatus GmbH**

**Gruenstrasse 1**

**D-79232 March-Hugstetten Germany**

**Phone: +49(0)7665/9200-0**

**Fax: +49(0)7665/9200-90**

**email: [info@hugo-sachs.de](mailto:info@hugo-sachs.de)**

Hugo Sachs Elektronik (HSE) warrants the HSE INTUBATION LARYNGOSCOPE for a period of one year from the date of purchase. At its option, HSE will repair or replace the unit if it is found to be defective as to workmanship or materials. This warranty does not extend to any instrumentation which has been (a) subjected to misuse, neglect, accident or abuse, (b) repaired or altered by anyone other than HSE without HSE express and prior approval, (c) used in violation of instructions furnished by HSE. This warranty extends only to the original customer purchaser. IN NO EVENT SHALL HSE ELEKTRONIK BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES. Some states and regions do not allow exclusion or limitation of incidental or consequential damages so the above limitation or exclusion may not apply to you. THERE ARE NO IMPLIED WARRANTIES OF MERCHANTABILITY, OR FITNESS FOR A PARTICULAR USE, OR OF ANY OTHER NATURE. Some states or regions do not allow this limitation on an implied warranty, so the above limitation may not apply to you. Without limiting the generality of the foregoing, HSE shall not be liable for any claims of any kind whatsoever, as to the equipment delivered or for non-delivery of equipment, and whether or not based on negligence. Warranty is void if the device is changed in any way from its original factory design or if repairs are attempted without written authorization by HSE. Warranty is void if parts or connections not manufactured by HSE are used with the equipment. If a defect arises within the warranty period, promptly contact Hugo Sachs Elektronik, Gruenstrasse 1, D-79232 March-Hugstetten Germany by phone at +49(0)7665/9200-0 or email [sales@hugo-sachs.de](mailto:sales@hugo-sachs.de). In the USA, call 800-272-2775 or 508-893-8999 or email: [support@hbiosci.com](mailto:support@hbiosci.com).

Goods will not be accepted for return unless an RMA (Returned Materials Authorization) number has been issued by our customer service department. The customer is responsible for shipping charges. Please allow a reasonable period of time for completion of repairs, replacement and return. If the unit is replaced, the replacement unit is covered only for the remainder of the original warranty period dating from the purchase of the original device. This warranty gives you specific rights, and you may also have other rights, which vary from state to state.

## Out of Warranty Service

Proceed exactly as for Warranty Service on previous page. If our service department can assist you by phone or other correspondence, we will be glad to help at no charge. Repair service will be billed on the basis of labour and materials. A complete statement of item spend and materials used will be supplied. Shipment should be prepaid. Your bill will include return shipment freight charges. Disassembly by the user is prohibited. Service should only be carried out by experienced HSE technicians.

## Repair Facilities and Parts

HSE stocks replacement and repair parts. When ordering, please describe parts as completely as possible, preferably using our part numbers. If practical, enclose a sample photo or drawing.

## Safety Information

Please read the following safety precautions to ensure proper use of your laryngoscope. If the equipment is used in a manner not specified, the protection provided by the equipment may be impaired.

### Use Proper Batteries

We recommend the use of industrial grade batteries to avoid leakage resulting in damaging the torch lamp.

### Do Not Discard Batteries in Normal Waste, but in Special Waste Containers

### Avoid Strong LED light Exposure to Eyes

Do not point the laryngoscope to eyes when switched on.

### Do Not Operate with Suspected Failures

If damage is suspected on or to the product do not operate the product. Contact qualified service personnel to perform inspection.

### Place Product in Proper Environment

Review the operating manual for guidelines for proper operating environments.

### Observe all Warning Labels on Product



CAUTION Refer to manual. Read all labels on product to ensure proper usage.

### Caution Notice



CAUTION: FOR RESEARCH USE ONLY. NOT FOR CLINICAL USE ON PATIENTS.

The unit itself does not generate waste but may be used with samples that are hazardous. Please use appropriate PPE and ensure disposal in accordance with local regulations and practices. This product should not be used in the presence of a flammable atmosphere

## Compliance

These systems have been designed to meet the standards for electromagnetic compatibility (EMC) intended for laboratory equipment applications as well as the applicable safety requirements for electrical equipment for measurement, control, and laboratory use.

# Introduction

This User's Manual explains the installation, function and use of the HSE INTUBATION LARYNGOSCOPE. Carefully read the operating instructions as well as other materials in this manual.

This manual is not a warranty of product performance. If you need help or have questions, please contact us and we will assist you. We want you to be completely satisfied with this product.



## Product Overview

The HSE INTUBATION LARYNGOSCOPE is designed for applications in animal experimental research or other technical uses in general laboratory, light industrial or office environments.

The intubation laryngoscope is intended to facilitate the insertion of intubation catheters into rodent's trachea. The tip blade is designed to keep the animal's tongue aside while the small tip is used to open the vocal scribble. The light fibre that sits directly behind the tip blade illuminates the throat and vocal cords.

The laryngoscope is made of a battery torch lamp, a light fibre inside a metal tube that is bend 90° and a blade tip. It comes in a box, including two AA batteries, the torch lamp and laryngoscope manuals.

## Key Features

- Light weight, special design for mice
- Small tip blade, with smooth edges
- Three light intensities to accommodate user preference and light conditions.
- Using AA batteries, no special charging equipment needed.
- Solid box for safe storage.

## Unpacking & Inspection

**CAUTION:** Please first check the contents of the shipment for completeness and note whether any damage has occurred during transport. If the contents are incomplete, or if there is damage on the laryngoscope or it's accessories, notify the supplier from whom you have ordered the device or Hugo Sachs Elektronik directly.

Check to ensure that all items ordered and listed are included in the shipment. The shipment includes the following items:

- HSE INTUBATION LARYNGOSCOPE

- 2x AA batteries (one spare)
- Torch lamp manual
- User's manual (operating instructions)

## Setting up the system

Open the box and take out the laryngoscope

Insert one AA battery as described below. After inserting the battery, the laryngoscope is ready to use

## Inserting/changing the battery

Switch off the laryngoscope. Open the torch lamp by holding the black torch lamp adapter in one hand and the read end body of the lamp in the other hand and turn the body anti-clockwise until the front part of the lamp and the body separate. Insert a new battery or remove the old battery first. The + pole of the battery is heading towards the front of the lamp. Reassemble the torch lamp by turning clockwise the body to the front part of the lamp.

Make sure you discard batteries appropriately.



## Switching on the laryngoscope

Switch on the laryngoscope by fully pressing the black, round rubber button at the rear of the torch lamp, you feel a click when switched on

## Changing the light intensity

Select one of the three light intensity by toggle press halfway the black, round rubber button. Every press changes the intensity from low, to mid, to strong and back to low in a cycle. The intensity can be changed at any time when the laryngoscope is switched on

## Switching off the laryngoscope

Switch off the laryngoscope by fully pressing the black, round rubber button at the rear of the torch lamp, you feel a click when switched off. This can be done at any level of light intensity

## Specifications

Laryngoscope box	
Hight	3,5cm
Width	14,7cm
Length	11,5cm
Weight, including Laryngoscope, 2x batteries	250gr
Laryngoscope	
Hight	19mm
Width	8cm
Length	12.5cm
Weight	40gr
Tip Blade Size	2x4mm
Batteries	AA industrial grade
Operating Temperature	4°C to 40°C (40°F to 104°F)
Storage Temperature	10°C to 70°C (14°F to 158°F)
Operating and Humidity	20% to 80% RH, non-condensing

## Servicing and maintenance

The HSE INTUBATION LARYNGOSCOPE does not require any regular service or maintenance. Any splashes of salt solution should be removed immediately with a cloth to prevent corrosion damage to the metal parts, the light fibre and the electronics. Make sure using alcohol free cleaning solutions when touching the light fibre tip.

Any dust should be removed with a lint-free cloth or with a fine dust brush.

Heavier dirt can be removed with soapy water or a domestic cleaning agent, using a soft cloth. Then wipe up with clean water. Never allow any liquid to find its way inside the laryngoscope.

## Return Shipment

To send back the laryngoscope it is essential to have very good packaging. It is best to use the supplied storage box together with an additional packaging around.

## Order information

Part Number	Description
73-5072	HSE INTUBATION LARYNGOSCOPE