Iırlraq / İvanl VIDEO LARYNGOSCOPE US Patent No 6,843,769

OPTICS INSTRUCTIONS FOR USE ENGLISH

DESCRIPTION

The Airtraq Avant is a video laryngoscope designed to facilitate intubation. It allows full visualization of the airway, during 100% of the intubation, It does not require hyper extension of the neck and permits intubating patients in virtually any position. Visualization can be performed directly through the eyecup or connecting it to any Endo Camor to the accessories offered by the manufacturer.

COMPONENTS

Airtrag Avant comprises 3 elements that have to be assembled by the user every time an intubation is to be performed:

The Optics: A REUSABLE piece that contains the optical, the anti-tog and the electronic systems and that is articulated to facilitate its insertion into the blade; the Optics element only works when it is tuly inserted into a Blade.

A storage case for the Optics is provided with each unit. It protects the Optics when it is



The Blade: A DISPOSABLE rigid piece of plastic, anatomically shaped, that consists of two side by side channels. One channel, which terminates in a distal lens, for insertion of the Optics and the other channel, open at its distalend, acts as a guide for the endotracheal type.



The Eyecup: A **DISPOSABLE** piece that is assembled on top of the blade and provides direct connection to most Endo Cams.



Additionally the Airtraq Avant system includes a Docking Station that recharges the battery of the Optics and displays its remaining service life, in case the Optics become damaged the LCD will show an error code. Detrilled Instructions for Use of the Docking Station are provided in its corresponding Station are provided in its corresponding package. No service of the Docking Station is required

OPTICS SERVICE LIFE

Airtraq Avant Optics Service Life is defined by the manufacturer as the Number of Times that the Optics are functional. It is equal to 100 uses. Once the Service life is finished the Optics should be discarded by the user.

Service Life starts the first time the user turns on the Optics. Each time the Optics is turned on and the lens warming period has finished counts as one use.

The number of uses remaining is displayed in the Docking Station when

the Optics is inserted into it. The Optics also includes a light indicator that provides information about Service Life available:

• A steady green light means that there are between 11 and 100 uses remaining,

• A blinking green light means that there are between 6 and 10 uses remaining,

• A steady orange light means that there are between 1 and 5 uses remaining,

• A blinking orange light means that the service life is finished,

Blades and Eyecup shelf life is limited to the expiration date.

OPERATING, STORAGE AND TRANSPORT

The Optics should not be used, stored or transported at temperatures below -5°C/23°F or over 55°C/131°F. The relative humidity must not exceed 95 %. The air pressure must not exceed 500 to 1060 hPa.

In order to protect the Optics, when not in use, insert it into its storage case.

BATTERY CHARACTERISTICS

Each Optics is equipped with a rechargeable battery that provides a voltage of 3.7 volts and powers the LED light and the anti-fog system.

The Optics are packed with the battery already assembled. Remove the plastic tab off the battery box before first use.

The OPTICS DOES NOT WORK WHEN IT IS BEING CHARGED. IT SHOULD BE CHARGED AT LEAST 1.8 M AWAY FROM THE PATIENT.

The battery is supplied discharge. It is recommended to perform a full charge/discharge cycle of the battery before starting to use the Optics for before starting ic Clinical purposes.

When the battery is fully charged the Optics can be used for approximately 20 infubations. The manufacturer intuorions, The manufacturer recommends recharging the Optics battery using the Docking Station after each intuorion. A full recharge cycle of the battery will take 2 hours. The period of time to discharge, without use, a fully charged battery is over 30 days.

When the Optics is inserted into the Docking Station it displays the battery charge status. The Optics also includes a light indicator that provides battery charge information.

• A steady green light means that the remaining time of use is between 40 and 120 minutes,

• A blinking green light means that the remaining time of use is between 20 and

• A steady orange light means that the remaining time of use is between 10 and 20 minutes,

A blinking orange light means that the remaining time of use is below 10 minutes. In this case, the Optics will not

In order to avoid undesired discharge of the battery. Optics is automatically turned off when it is inside a blade, for more than 30 minutes. Three minutes before turning off, the light will flash every 10 seconds.

BATTERY AND SERVICE LIFE CHECK

The user can check battery and service life by pressing the CHECK button in the battery cover or placing the optics into its docking station. (Please see docking station's IFU).



BLADE SIZES

Regular: A-511. Size 3

For use with ETT 7.0 - 8.5. Minimum patient mouth opening: 17 mm Small: A-521. Size 2

For use with ETT 6.0 - 7.5. Minimum patient mouth opening: 17 mm

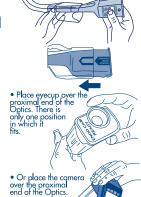
INTUBATION TECHNIQUE WITH AIRTRAQ AVANT

I. OPTICS, BLADE AND EYECUP ASSEMBLY

Check Optics battery status and service life available in the Docking Station or by pressing the Check Button.

Select the appropriate blade size based on the size ETT to be used.

 Straighten the curved portion of the Optics and align the orange indicators on the Optics and on the Blade . • Insert the Optics into the blade fully, until it clicks into position.



Upon inserting the blade, the light will automatically start blinking for approximately 35 seconds until the anti-log warms the lens of the blade. Once the device is ready for intubation the light will become steady.

II. PREPARATION

Lubricate the ETT and place it into the lateral channel of the blade without contacting blade's lens.

• Align the tip of the ETT with the end of the lateral channel.

III. AIRTRAQ AVANT PLACEMENT INTO THE AIRWAY (Fig. 1)

• Insert the Airtraq Avant into the midline of the patient's mouth. Take special care to avoid pushing the tongue inside the oropharynx.

 Before it reaches the vertical plane, begin looking to identify airway structures.

Continue insertion until the epiglottis is identified. Place the tip of the blade in the vallecula. Alternatively, the blade can be placed under the epiglottis, lifting it out

• Gently lift up the Airtraq Avant to expose the vocal cords.

IV. ETT INSERTION AND AIRTRAQ AVANT REMOVAL FROM PATIENT'S AIRWAY (Fig. 28.3)

Align the vocal cords in the center of the visual field by gently moving the tip of the blade as needed.

Gently advance the ETT in the lateral channel. If needed rotate ETT inside the channel. Check insertion depth.

• Inflate the ETT cuff as normal and check for proper positioning.

• Separate the ETT from the Airtraq Avant by pulling it laterally from the ETT, while holding the ETT in position.

Remove the Airtrag Avant from the patient's airway following the midline.

V. DISASSEMBLY OF AIRTRAQ AVANT • Separate the Airtrag Avant Optics from the Blade by firmly gripping both lateral sides of the eyecup and pulling apart. Make sure the Optics do not become in contact with any potentially

• The Optics automatically turns off when it is taken out from the blade.

contaminated surface.



Discard the disposable blade and eyecup as any other potentially contaminated waste following local governing ordinances and recycling plans regarding disposal or recycling.

If needed, place the Optics back onto the Docking Station to recharge the

USAGE TIPS

1. Initial experience should be gained in non-difficult airways.

2. Insert the Airtraq Ayant, avoiding the tongue, and slide it softly and slowly. 3. Keep the Airtraq Avant in the mouth's midline.

4. Look before the Airtraq Avant gets to the vertical plane.

the vertical plane.

5. Do not insert too deep. If structures (arytenoids, epiglottis, etc.) are not clearly recognized, withdraw the Airtraq Avant slightly.

6. Once the tip is located at the epiglottis, either at the vallecula (Macintosh style), or under the epiglottis, (Miller style), gently lift up the Airtraq Avant (do not till or use a lever action).

7. Advance the FTI stowl. If peeded

7. Advance the ETT slowly. If needed rotate ETT inside the channel.

MR CONDITIONAL

Non-clinical testing demonstrated that Airtrag Avant is MR Conditional and can be used in the MRI environment according to the following conditions:

Static magnetic field of 3-Telsa or less

Spatial gradient magnetic field of 720-Gauss/cm or less

720-Gauss/cm or less IMPORTANT NOTE: The Airtrag Avant may be inside of the MRI environment (e.g., in the MR system room). It should not be utilized directly inside of the MR system (e.g., inside of the bore of the scanner), during its operation (i.e., scanning). As such, the assessment of magnetic field interactions of the product specifically involved evaluations of transitional attraction in relation to exposure to a 3-Testa MR system, only.

WARNINGS AND PRECAUTIONS

• This product should only be used by personnel trained in insertion of endotracheal tubes.

Do not put pressure on the teeth with

 Do not force the Airtrag Avant into the Do not incinerate unless battery has been removed.

Do not submerge in liquids.
Use only with non-flammable

anesthetics. Do not touch the Optics LED

OPTICS CLEANING AND DISINFECTION Optics can be inserted and disengaged from the blade without contacting it.

Optics should never be in contact with the patient. Therefore, it is classified as a non-critical device.

In case that the Optics accidentally become dirty, recommended cleaning is low-level disinfection. Be sure to follow your institution's specific cleaning

procedures in consultation with this manual

. Remove the Optics from the blade.

2. Cleaning: Use clean cotton gauze 2. Cleaning: Use clean cotton gauze gods that are saturated with the cleaning solution to wipe down the exterior surfaces of the Optics. Use soft brushes with the cleaning solution to access areas that cannot be reached with the gauze pads. Be careful to keep running liquid off the surfaces. The following cleaning solutions may be used:

a. Enzymatic Cleaning Solutions (e.g.: ENZOL™ Enzymatic Detergent).

b. Neutral pH soap and water. c. Sodium bicarbonate solution (8-10 %).

3. The following Disinfection Agents may

a. Peracetic Acid Solution (0.08%).

b. Isopropyl Alcohol (70%)

c. Solution containing 70% isopropyl alcohol and 2% chlorhexidine (e.g. Clinell Wipe).

d. Solution containing chlorine dioxide (e.g. Tristel Wipe) e. PDI Sani-Cloth® Germicidal Wipes (AF3, Bleach, Plus or Super Sani-Cloth®).

4. Blot dry the Optics using an individual sterile surgical towel.

5. Caution:

Do not autoclave.
Do not rinse under running water.
Do not soak in liquids.

Avoid liquid or moisture from going

inside the Optics.

• Avoid touching the lens of the

OPTICS DISPOSAL INSTRUCTIONS

Once the Service Life of the Optics is finished it should be disposed of as

Remove the battery cover by pulling it away from the main body (pull away from the small notches).

rom the small notices).

Remove the battery from the Airtraq Avant and place it in an appropriate battery recycling container. The batteries are classified as non hazardous waste material and comply with European Directive WEEE.

Follow local governing ordinances and recycling plans regarding disposal or recycling of device components.

MANUFACTURER'S WARRANTY

The manufacturer warrants the Airtrag The manufacturer warrants the Airfrag Avant Optics against faulty materials or manufacturing defects during the full Service Life of the device and and for a period of two years from the date of purchase, whichever comes first, provided that it is used in accordance with the procedures set forth in these instructions. This Warranty is applicable only if the device is purchased from an authorized distributor.

The AIRTRAQ AVANT BLADE and EYECUP are designed for SINGLE PATIENT USE. Warning! Cleaning and reuse of the AIRTRAQ AVANT BLADE may compromise patient safety.

Use of Airtrag Avant Blades that have been cleaned or sterilized after previous use may generate serious consequences in the product's performance and will void the Airtrag Avant warranty. The





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manufacturer disclaims all other warranties, whether expressed or implied, including, without limitation, the warranties of merchantability or fitness for a particular use.

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Caution: Federal (USA) law restricts this device to sale by or on the order of a physician. For further advice on using the Airtraq

Avant please visit: www.airtrag.com or contact:

info@airtrag.com or info.usa@airtraa.com AIRTRAQ is a registered trademark



Slide midline

Do not insert too deep

Lift gently

Twist Airtrag to center vocal cords

Corkscrew ETT





