

**AIRTRAQ – VIDEO CAMERA  
Model – ATQ-032**

**INSTRUCTIONS**

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## **1. DESCRIPTION AND INDICATIONS**

The Airtraq Camera has been specially designed to work as an accessory for the AIRTRAQ Optical Laryngoscope. It should be mounted on top of the AIRTRAQ after removing the original rubber viewfinder. Placing and removing the Camera of the Camera from the AIRTRAQ is a simple and quick operation.

The Camera provides the ability to transmit the images of the glottis obtained when intubating to an external monitor (e.g. any monitor in the operating room, any other portable monitor which has a composite (RCA) video input or even a laptop computer through a video capture card. It provides full color, real-time images.

The Camera automatically transmits images by Radiofrequency at 2.4 Ghz. making it possible to work wireless when using the optional Airtraq Wireless Receiver. Radiofrequency signal is only emitted when the video cable is not connected.

The Camera allows one to also record the intubation, via a DVD recorder or to a laptop computer with a video capture card.

## **2. CAMERA COMPONENTS**

### **Camera Set ATQ-032**

#### **2.1.1. Camera**

CMOS video camera with rechargeable Li-Ion Battery and wireless 2.4 GHz emitter.

#### **2.1.2. Video Cable**

Coaxial cable to connect the Camera to an external monitor (RCA connector). Length: 6 m.

#### **2.1.3. Camera stand-alone battery charger**

Charger for the Li-Ion Battery of the Camera.

#### **2.1.4. RCA / BNC Adaptor**

Adaptor needed to connect the video cable to most monitors found in Operating Theaters

#### **2.1.5. Camera case**

### **3. CAMERA OPERATING INSTRUCTIONS**

#### **3.1 Camera Switches, Indicators and connectors**

On- Off Switch :

Video Out Connector:

Ready indicator: Turns green when the camera is switched on

Low Battery indicator: Turns red when the camera batteries are below 10% of its capacity.

The camera will still operate for approximately 20 to 30 minutes.

Battery charge connector:

Frequency Selector: To be used only in conjunction with the optional Wireless Receiver.

See Wireless Receiver instructions for use.



#### **3. 2 Battery Charge**

The camera DOES NOT WORK WHEN IT IS BEING CHARGED.

1. Connect the stand-alone battery charger to the electricity supply. The LED of the charger will give a green light
2. Connect the connector into the camera. Upon connecting the camera to the charger the camera will automatically turn off and neither of its two LEDs will light. The LED of the charger change to red to indicate charging.

Recharging the battery takes approximately 2 hours. Once the battery is fully charged the LED of the charger will turn green.

The battery of the camera will last, under standard conditions, for around 4 hours.

Once the camera battery is below 10% of its capacity the low battery indicator (Red LED) will come on. The camera will still operate for approximately 20 to 30 minutes after the Red LED has been displayed. The manufacturer recommends recharging the battery as soon as the low-battery indicator turns red.

### **3.3 Mounting the camera onto the Airtraq**

To mount the camera, remove the rubber viewfinder and clip on the camera on top of the AIRTRAQ.

Once the intubation is finished remove the camera from the Airtraq by clipping off and pulling it away.

Clean the Camera between each use as per indications below.



#### **3.1.1. Viewing on a monitor**

1. Connect the video cable to the Camera Video Out connector.
2. Connect the Composite (RCA) connector to the external monitor to the Video IN connector. Some monitors may require the RCA/BNC adaptor.
3. Switch the camera ON.

#### **3.1.2. Viewing on a Laptop computer**

1. Acquire a video capture card suitable for your laptop's Operating System. There are several standard products in the market either as portable devices or PCMCIA cards (Pinnacle PCTV, AverMedia, etc.)
2. Install in the software provided with the video capture device.
3. Connect the video capture device to the laptop computer, usually through a USB 2.2 port or PCMCIA.
4. Connect the video cable to the Camera Video Out connector.
5. Connect the RCA connector to the video capture device Video IN connector.

6. Switch the camera ON. The computer will recognize the device.
7. Open the software and proceed as indicated in the Software instructions.
8. Customize the software. Indicate that input is video-composite

### **3.1.3. Recording**

#### **3.1.3.1. DVD recorder**

1. Connect the video cable to the Camera Video Out connector.
2. Connect the RCA connector to the DVD recorder Video IN connector.
3. Connect the DVD recorder to an external monitor

#### **3.1.3.2. Laptop computer**

Proceed as in 3.1.4 and then record images into your laptop as indicated in the Video capture Software instructions.

## **4. CLEANING INSTRUCTIONS**

The AIRTRAQ Camera is classified as a non-critical device. Recommended cleaning is low-level disinfection between each patient use. Be sure to follow your institution's specific cleaning procedures in consultation with this manual.

1. Turn the camera OFF and remove from the Airtraq.
2. Cleaning : Use clean cotton gauze pads that are saturated with the cleaning solution to wipe down the exterior surfaces of the Camera. Use soft brushes with the cleaning solution to remove any residues from areas that cannot be reached with the gauze pads. Be sure to remove all visible contaminant or foreign matter. 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. Disinfection Agents:
  - a. Cidex™ OPA 0.08% Peracetic Acid Solution
  - b. Isopropyl Alcohol
4. Blot dry the camera using an individual sterile surgical towel

Caution: Do not autoclave  
 Do not rinse under running water.  
 Do not soak in liquids.  
 Avoid liquid or moisture from going inside the Camera.  
 Avoid touching the lens of the camera

## **5. STORAGE AND TRANSPORT**

The AIRTRAQ Camera should not be stored at temperatures below -10 °C or over 60° C. The relative humidity must not exceed 95 % during storage or use.

Please handle it with care as with any other electronic device. Use the storage case provided to store the device between each use.

## **6. TECHNICAL DATA**

### **6.1 AIRTRAQ Clip-On Camera**

Supply Voltage : Rechargeable Lithium Battery 7.2 V  
Supply Current: 55 mA  
Power consumption: 0.8 Watts  
Radio Frequency: Worldwide 2.4GHz ISM band (open frequency)  
Channel Frequency : CH1: 2414MHz, CH2: 2432MHz,  
CH3: 2450MHz, CH4: 2468MHz  
Output Power: Maximum -2.23 dBm  
Transmission range: 50 m.  
Operating Temperature from -10°C to 60  
Dimensions: 85 mm. x 80 mm. x 55 mm.  
Weight : 120 grams

### **6.2 Camera stand alone Battery Charger**

Supply Voltage : 110 V – 240 V  
Output : 8.4 Volts, 550 mA.  
Dimensions: 72 mm. x 60 mm. x 25 mm.  
Weight: 40 grams

## **7. FCC and ICES-001 Notices and Warning**

### **FCC**

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer for help

Per ICES-001:

This ISM device complies with Canadian ICES-001.  
Cet appareil ISM est conforme à la norme NMB-001 du Canada

Caution:

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Hereby, Prodol Meditec S.A., declares that this wireless system is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC. The Declaration of Conformity (DoC) is available from the manufacturer:

Prodol Meditec S.A.  
Muelle Tomas Olavarri 5, 3  
48930 Las Arenas Vizcaya,  
Spain

**FCC ID: VGO-CAM**  
**IC: 7219A-CAM**

#### **8. MANUFACTURER'S WARRANTY**

The manufacturer warrants the Airtraq Camera against faulty materials or manufacturing defects for a period of one (1) year from the date of purchase, provided that they are used in accordance with the procedures set up in these instructions. This warranty is only applicable if the device has been bought from an authorized distributor.

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

