SensaScope

Semirigid Video Intuboscope

ACUTRONIC
Medical Systems AG

The total visibility

www.acutronic-medical.ch

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The new SensaScope

The SensaScope® is composed by a rigid S-shaped endoscope with a steerable tip much alike a flexible endoscope. The device is equiped with an inbuilt camera and light source. The endoscope has to be only connected to the video monitor via a connecting interface in a small box. It has no eyepiece anymore and instead of two heavy cables (one for the video signal and another for the cold light) there is only a lean one to the video interface. This configuration became possible because a miniaturized CMOS chip became available and could be fitted into the tip of the device, as well as a tiny LED to produce the necessary light. By becoming lighter and having only one slender cable, manoeuvrability and comfort of use increased considerably. The shape of the image is now rectangular and completely fills the screen of the monitor as compared with the relatively small circular image in the middle of the video screen deriving from the attached camera. Instead of presenting the usually unsubtle pixels of conventional fibrescopes, the SensaScope® provides a brilliant image quality.
An important characteristic of the SensaScope® is its intuitive ease of handling. There is no necessity to connect the device to a light source, to attach a camera to the eyepiece, to search for the right focus, to find the correct axial alignment and to acquire the white balance. The new SensaScope® became lightweight and simple to use. To operate the system one only has to connect the sole cable to the video interface and to press the start button. Then the system is ready to use. The light intensity can be modified with a plus/minus switcher which is included in both, the handle of the stylet as well as in the video interface. When the device is started, the light intensity setting appears at the same level as it has been left during the last use, so mostly it is from the beginning convenient and must not be changed anymore.

SENSA SCOPE

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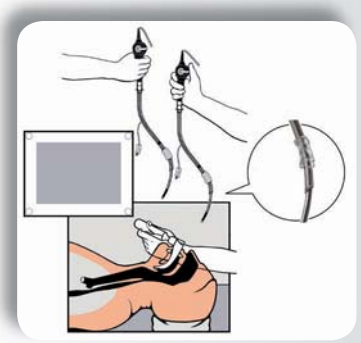
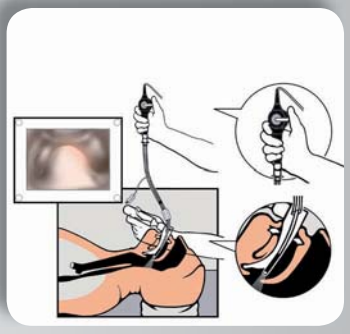
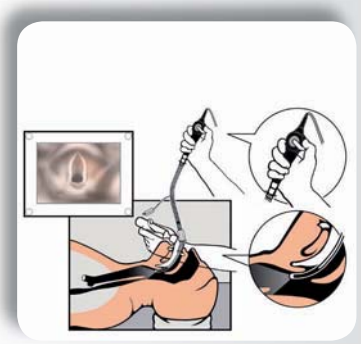


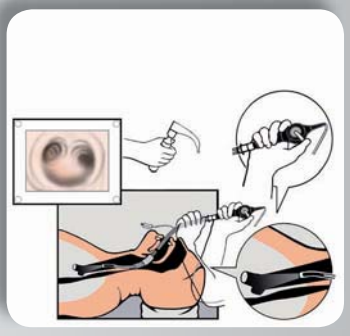
1. The starting point is the scope tip in midline at the upper incisors viewing towards the uvula. The lever is in neutral position.



2. The scope is then advanced straight to the uvula along the palate (as opposed to advancement along the tongue). After passing the uvula, elevation of the tip (by lowering the lever with the thumb) until the glottis appears on the screen.



3. Further advancement of the scope only by rotating the scope with the handle downwards (cephalad direction in sagital plane) until the vocal cords are left behind. When the tip approaches the anterior tracheal wall, it is bended dorsally by elevating the lever. Thus the viewing direction is towards the carina. Now the laryngoscope should be removed.



4.The scope is now further advanced towards the carina by further cephalad rotation. The endotracheal tube is pushed forward with the now free left hand until it becomes visible on the screen, eventually followed by adjustment of its position.

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> technical specifications

Output:

1 x Video (CVBS) (A)
1 x USB 2.0 (B)

Power supply:

230 VAC Input 10 VA (C)

Camera specifications:

TV System: NTSC (60 Hz)
for standard definitions
Resolution: 720 x 480 Pixel
Brightness: automatic

Operating conditions:

temperature: 0° C to + 40° C
maximum humidity: max. 90 %

Steerable tip:

bending section: 60° up/down

SENSA SCOPE

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