Unparalleled diagnostic imaging, brighter Narrow Band Imaging, blur-free still images and access to a wide range of groundbreaking endoscope technologies – EVIS EXERA III revolutionises clinical workflows and even enhances the performance of your existing endoscope pool.

EVIS EXERA III

HDTV video processor CV-190 and xenon light source CLV-190.
Main features

- NBI (Narrow Band Imaging) in EVIS EXERA III 190 series scopes provides twice the viewable distance of EVIS EXERA II 180 series scopes and offers much greater contrast between blood vessels and mucosa thanks to an improved lamp design and signal processing.
- The newly designed waterproof one-touch connector allows a one-step connection to the light source and does not require a scope cable.
- Considerable reduction in operating noise thanks to a redesigned fan.
- Link connection to peripheral devices avoids complicated cable connections and accelerates transmission speed.
- Automatic light adjustment to achieve ideal illumination for observation with each scope.

Specifications

<table>
<thead>
<tr>
<th>Specifications</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Power supply</strong></td>
<td>Voltage 100–240 V AC; within ±10%</td>
</tr>
<tr>
<td></td>
<td>Frequency 50/60 Hz; within ±3 Hz</td>
</tr>
<tr>
<td></td>
<td>Consumption electric power 600 VA</td>
</tr>
<tr>
<td><strong>Size</strong></td>
<td>Dimensions (W × H × D) 370 × 150 × 476 mm (standard)</td>
</tr>
<tr>
<td></td>
<td>390 × 162 × 551 mm (maximum)</td>
</tr>
<tr>
<td></td>
<td>Weight 19 kg</td>
</tr>
<tr>
<td><strong>Illumination</strong></td>
<td>Examination lamp Xenon short-arc lamp (ozone-free) 300 W</td>
</tr>
<tr>
<td></td>
<td>Average lamp life Approximately 500 hours of continuous use. (With intermittent use, the lamp life may vary slightly.)</td>
</tr>
<tr>
<td></td>
<td>Ignition method Switching regulator</td>
</tr>
<tr>
<td></td>
<td>Brightness adjustment Light-path diaphragm control</td>
</tr>
<tr>
<td></td>
<td>Cooling Forced-air cooling</td>
</tr>
<tr>
<td></td>
<td>Intensity mode Normal or high intensity</td>
</tr>
<tr>
<td></td>
<td>NBI observation Available</td>
</tr>
<tr>
<td></td>
<td>Colour conversion Possible using special-purpose filter</td>
</tr>
<tr>
<td></td>
<td>Emergency lamp Halogen lamp (within mirror) 12 V 35 W</td>
</tr>
<tr>
<td></td>
<td>Average emergency lamp life Approximately 500 hours</td>
</tr>
<tr>
<td><strong>Automatic brightness adjustment</strong></td>
<td>Automatic brightness adjustment method Servo-diaphragm method</td>
</tr>
<tr>
<td></td>
<td>Automatic exposure 17 steps</td>
</tr>
<tr>
<td><strong>Air feeding</strong></td>
<td>Pump Diaphragm type pump</td>
</tr>
<tr>
<td></td>
<td>Pressure switching 4 levels available (OFF, low, medium, high)</td>
</tr>
<tr>
<td><strong>Water feeding</strong></td>
<td>Method Feeds water by pressurising the detachable water container with air.</td>
</tr>
<tr>
<td><strong>Indicators on front panel</strong></td>
<td>Emergency lamp Indicates absence of emergency lamp, disconnection and use of emergency lamp.</td>
</tr>
<tr>
<td></td>
<td>NBI When the NBI observation is enabled, the NBI indicator lights up.</td>
</tr>
<tr>
<td></td>
<td>PDD When the PDD observation mode is enabled, the PDD indicator lights up.</td>
</tr>
<tr>
<td><strong>Setting memory</strong></td>
<td>Settings (except filter setting) are stored even when the light source is off.</td>
</tr>
<tr>
<td><strong>Classification</strong></td>
<td>Type of protection against electric shock Class I</td>
</tr>
<tr>
<td></td>
<td>Degree of protection against electric shock of applied part Depends on applied part. See applied part (camera head or videoscope).</td>
</tr>
<tr>
<td></td>
<td>Degree of protection against explosion This instrument should be kept away from flammable gases.</td>
</tr>
</tbody>
</table>

Specifications, design and accessories are subject to change without any notice or obligation on the part of the manufacturer.
Main features

- NBI (Narrow Band Imaging) in EVIS EXERA III 190 series scopes provides twice the viewable distance of EVIS EXERA II 180 series scopes and offers much greater contrast between blood vessels and mucosa.
- The CV-190 video processor in combination with all HQ scopes contains the necessary technology for dual focus imaging, which delivers an optimal view in two modes: near focus or normal focus.
- The newly designed waterproof one-touch connector enables a one-step connection to the light source and does not require a separate scope cable for the video processor.
- New and improved image processing delivers sophisticated image quality via enhanced color reproduction, minimised image noise and reduced halation.
- The pre-freeze function automatically selects the clearest still image, saving time.
- Compatible with the EVIS 100/130/140/150, EVIS EXERA 160, EVIS EXERA II 180, EVIS EXERA III 190 and GI/BF/VISERA series scopes.

Specifications

Power supply
- Voltage: 100-240 V-AC (115/220-240 V-AC [PAL], within ±10%)
- Frequency: 50/60 Hz; within ±1 Hz
- Electric power consumption: 150 VA

Size
- Dimensions: (W x H x D): 310 x 65 x 465 mm; 322 x 91 x 489 mm (maximum)

Weight
- 16.7 kg

Classification (medical electrical equipment)
- Type of protection against electric shock: Class I
- Degree of protection against electric shock of applied part: Depends on applied part. See applied part (camera head or video processor).
- Degree of protection against explosion: The video system center should be kept away from flammable gases.

Analogue HDTV signal output
- Either RGB or YPbPr (1080/50I: PAL) output can be selected.

Analogue SDTV signal output
- VBS composite, Y/C and RGB (576/50I: PAL); simultaneous outputs possible.

Digital signal output
- HD-SDI (4:2:2), HD-SDI (4:2:0), SD-SDI (4:2:2), SD-SDI (4:2:0), DV/BEEE 1394 and DMX (AV/AN, 100p or SX/UA) can be selected.

White balance adjustment
- White balance adjustment is possible using the white balance button on the front panel.

Standard colour chart output
- The ‘colour bar’ or the ‘10% white’ screen can be displayed.

Color tone adjustment
- The following colour tone adjustments are possible using the colour tone level adjustment button and colour tone selector button on the keyboard: Red adjustment; all steps; Blue adjustment; all steps; Chroma adjustment; all steps

Automatic gain control (AGC)
- The image can be electronically amplified when there is inadequate light due to the distal end of the endoscope being too far from the object.

Contrast
- N (Normal); Normal image · H (High): The dark areas are darker and the bright areas are brighter than in the normal image.

Iris
- L (Low): The dark areas are brighter and bright areas are darker than in the normal image.

Image enhancement setting
- Fine patterns or edges in the endoscopic images can be enhanced electrically to increase the image sharpness. Either the structural enhancement or edge enhancement can be selected according to the user setup. Structural enhancement: Enhancement of contrast of the fine patterns in the image. Edge enhancement: Enhancement of edges of the endoscopic image.

Switching the enhancement modes
- Three levels of enhancement can be selected using the image enhancement mode button on the front panel.

Image size selection
- The side of the endoscopic image can be changed using the IMAGE SIZE key on the keyboard.

Fog-free function
- When a compatible endoscope is connected to the video system center, the fog free function can be used.

Endoscope’s remote switches function
- The functions of the remote switches on the endoscope can be set in the user settings.

Reset to defaults
- The following settings can be reset to their defaults using the reset button on the front panel:

Documentation
- Patient data
  - The following data can be displayed on the monitor using the keyboard.
  - Patient ID: Patient name - Sex - Age - Date of birth - Date of recording (time, stopwatch). Comments.
- Displaying the record state
  - The recording state of the following ancillary equipment can be displayed on the monitor.
- Displaying the image information
  - The following data can be displayed on the monitor:
  - Structure enhancement level · Edge enhancement level · Zoom ratio · Color mode · Focus

Advanced registration of patient data
- Up to 50 patient data sets can be registered.

Portable memory
- Media: MAJ-1925 (OLYMPUS)
- Recording format: TFF, no compression; JPEG (1/15), approx. 1/5 compression; JPEG (1/10), approx. 1/10 compression.
- Number of recording images: TFF, approx. 227 images; JPEG (1/15), approx. 1324 images; JPEG (1/10), approx. 2048 images

Memory backup
- User settings:
  - Memorisation of selected setting: The following settings are stored even after the video system center is turned off.
- Lithium battery
  - Life: 5 years

Specifications, design and accessories are subject to change without any notice or obligation on the part of the manufacturer.