CV-190

Video processing powering advanced endoscopy.
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 colour 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 (110-220-240 V AC [PAL], within ±10%)
  - Frequency: 50/60 Hz, within ±1 Hz
  - Electric power consumption: 150 VA

- **Dimensions**
  - 310 × 65 × 455 mm; 382 × 91 × 489 mm (maximum)

- **Weight**
  - 15.7 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 videoscope).
  - Degree of protection against explosion: The video system center should be kept away from flammable gases.

- **Observation equipment**
  - **Analogue HDTV signal output**
    - Either RGB or YPbPr (1080/50I: PAL) output can be selected.
  - **Digital signal output**
    - HD-SMPTE (2002A), SD-SMPTE 259M, DVI 1920 × 1200, and DHX 2400/2000 (1080p or SXGA) can be selected.

- **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.
  - **Color tone adjustment**
    - Red adjustment: ±8 steps
    - Blue adjustment: ±8 steps
    - Chroma adjustment: ±8 steps

- **Standard colour chart output**
  - The 'colour bar' or the '50% white' screen can be displayed.

- **Degree of protection against electric shock of applied part**
  - The following colour tone adjustments are possible using the colour tone level adjustment button and colour tone selector button on the keyboard. - Red adjustment, ±8 steps - Blue adjustment, ±8 steps - Chroma adjustment, ±8 steps

- **Automatic control of patient data**
  - Up to 50 patient data sets can be registered.
  - Patient ID: *Patient name: Sex: Age: Date of birth: Data of recording (time, stopwatch) Comments: *
  - Portable memory and internal buffer: DVR, Video printer, Image filing system

- **Image enhancement setting**
  - **Iris**
    - Auto: The brightness is adjusted based on the brightness of the periphery part.
    - Peak: The brightness is adjusted based on the brightest part of the endoscopic image.
    - Average: The brightness is adjusted based on the average brightness of the endoscopic image.
  - **Image size selection**
    - The size of the endoscopic image can be changed using the IMAGE (52) 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.

- **Fog-free function**
  - The following settings can be reset to their defaults using the reset button on the front panel.

- **Remote control**
  - The following ancillary equipment can be controlled (specified models only).
  - Monitor: DVR: Video printer: Image filing system

- **Recording format**
  - TFF, no compression: JPEG (1/5): approx. 1/5 compression: JPEG (1/10): approx. 1/10 compression

- **Number of recording images**
  - JPEG (1/5): approx. 1/5 compression: JPEG (1/10): approx. 1/10 compression

- **Lithium battery**
  - Life: 7 years

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