EVIS EXERA III VIDEO SYSTEM CENTER

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.
- CV-190 contains the electronics to operate the dual focus that delivers an optimal view whether close up or distant by connecting HQ scopes.
- 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.
- A new and improved image processing delivers sophisticated image quality via enhanced color reproduction, minimized image noise, and reduced halation.
- The pre-freeze function selects the clearest still image automatically, saving time.
- Compatible with EVIS 100/130/140/150 Series, EVIS EXERA 160 Series, EVIS EXERA II 180 Series, EVIS EXERA EXERA III 190 Series, and G1/BF/VISERA Series scopes.

16:9 and 16:10 output for a HDTV monitor is available. Compatible with analog, HD-SDI, and DVI output.
- Link connection to peripheral devices avoids complicated cable connections and accelerates transmission speed.
- OLYMPUS documentation system enhances networking expandability.
- Picture-in-picture and index function effectively enhance your observation.
- Portable memory is compatible, which is standard for data management. Simply connect and upload.
- Supports DV output to compatible documentation devices.

Specifications

Power Supply
- Voltage: 100-240 V AC (NTSC)/200-240 V AC (PAL), within ±10%
- Frequency: 50/60 Hz, within ±1 Hz

Consumption electric power
- 150 VA

Size
- Dimensions (W x H x D): 370 x 85 x 455 mm, 382 x 91 x 489 mm (maximum)

Weight
- 10.7 kg

Classification (medical electrical equipment)
- Analog HDV signal output
  - Either PAL (1080/50i, NTSC/60i), NTSC (1080/60i, NTSC, PAL), or NTSC/60i (1080/60i, NTSC, PAL) output can be selected.
- Analog SDTV signal output
  - The SDTV signal output can be selected.

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

Iris
- The auto iris modes can be selected using the "iris mode" switch on the front panel.
  - 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 enhancement setting
- Fine patterns or edges in the endoscopic images can be enhanced electrically to increase the image sharpness.

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

Remote control
- An endoscopic image is frozen using an endoscopic or the "FREEZE" key on the keyboard.

Switching the method of freezing the endoscopic image
- The image with the least blur is selected from the images captured in the set time period before freeze operation and displayed.

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.
- The "FREEZE" key can be eliminated.
- The "FREEZE" key can be displayed.

Digitalsignal output
- HD-SDI (SMPTE 292M), SD-SDI (SMPTE 259M), DV (IEEE 1394), and DVI (WUXGA, 1080p or SXGA) can be selected.

Analog SDTV signal output
- Either RGB (1080/50i, NTSC, 1080/60i, PAL), Y/C (480/60i, NTSC, 576/50i, PAL), and RGB (1080/50i, NTSC, 1080/60i, PAL) simultaneous outputs possible.

Audio output
- The audio signal can be output from the audio output terminals.

Input/output signal
- The signal can be selected from the input/output signal settings.

Input/output signal settings
- The following signal inputs can be selected:
  - Video input: CV-190, CV-290, CV-390, EVIS 100/130/140/150, EVIS EXERA 160 Series, EVIS EXERA II 180 Series, and EVIS EXERA III 190 Series
  - Digital signal output: HD-SDI, SD-SDI, and DVI

Memory Backup
- Supports DV output to compatible documentation devices.
- The memory backup function can be used to save data.

Number of recording images
- TIFF: approx. 227 images
- JPEG (1/5): approx. 1024 images
- JPEG (1/10): approx. 2048 images

Lithium battery
- Life: 5 years

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