EVIS LUCERA ELITE SYSTEM CENTER

CV-290

Video processing powering advanced endoscopy
Main Features

- NBI (Narrow Band Imaging) in EVIS LUCERA ELITE provides twice the viewable distance of EVIS LUCERA SPECTRUM, while advanced noise reduction works more effectively and image response speed from dark to bright is much faster.
- When connecting HQ scopes, CV-290 can contain the necessary electronics to operate the dual focus function which delivers optimal views, whether close up or distant.
- 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. The combination of scopes and the system provides superior imaging.
- Compatible with EVIS 200/230/240 Series, EVIS LUCERA 260 Series, and EVIS LUCERA ELITE 290 Series.

Specifications

### Power Supply
- **Voltage:** 100-240 V AC, 200-240 V AC (within ±10%)
- **Frequency:** 50/60 Hz (±1%)
- **Consumption electric power:** 500 W (max)
- **Size:** Dimensions: (W x H x D) 370 x 85 x 455 mm, 382 x 91 x 489 mm (maximum)
- **Weight:** 10.7 kg

### Observation
- **Iris:** The auto iris modes can be selected using the “iris mode” switch on the front panel.
- **Iris observation:** This observation mode uses the narrow band observation light.
- **AFI observation:** This observation mode uses the blue light.

### Image enhancement setting
- **Fine patterns or edges in the endoscopic images can be enhanced electronically to increase the image sharpness.**
- **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
- **The enhancement level can be selected from 3 levels (1, 2, and 3) using the image enhancement mode button on the front panel.**
- **Adaptive Iris color enhancement:** Enhances small differences in colors based on the Hb values in endoscopic images.
- **Displaying the Iris chart screen:** The Iris chart screen is displayed using the “Iris CHART” key on the keyboard. The Iris chart screen displays the Iris color balance for each pixel in the endoscopic image and displays the Iris color balance in the corresponding positions in an image by representing the values using simulated colors.

### Color balance adjustment
- **Adaptive Iris color balance adjustment:** Iris color balance adjustment is possible using the Iris color balance cap on the Iris chart screen.
- **Automatic gain control (AGC):** Iris color balance adjustment is possible using the AGC on the Iris chart screen.
- **Standard color chart output:** The Iris color balance adjustment is possible using the Iris color balance cap on the Iris chart screen.

### White balance adjustment
- **The Iris color balance adjustment is possible using the Iris color balance cap on the Iris chart screen.**
- **Automatic gain control (AGC):** Iris color balance adjustment is possible using the Iris color balance cap on the Iris chart screen.
- **Standard color chart output:** Iris color balance adjustment is possible using the Iris color balance cap on the Iris chart screen.

### Noise reduction
- **Noise is corrected by image processing.**
- **Noise reduction:** Noise is corrected by image processing.

### Optical-digital observation
- **Optical-digital observation:** The optical-digital observation can be performed when the endoscope and light source compatible with each optical-digital observation mode.
- **AFI observation:** The optical-digital observation mode uses the narrow band observation light. AFI observation: This observation mode uses the blue image. HRF observation: This observation mode uses the red image.

### 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 in the factory settings using the reset button on the front panel.

### Documentation
- **Remote control:** Remote control of the endoscope can be controlled specifically for models only.
- **Monitor:** Remote control of the endoscope can be controlled specifically for models only.
- **Portable memory:** Remote control of the endoscope can be controlled specifically for models only.
- **Memory backup:** Remote control of the endoscope can be controlled specifically for models only.

### Lithium battery
- **Lithium battery:** Life: 5 years