VISERA ELITE VIDEO SYSTEM CENTER
OTV-S190
HDTV video processor
**Main Features**

- Equipped with high-resolution HDTV imaging capability to provide the best possible image quality for flexible and rigid endoscopes. Enables comprehensive observation of different organs and tissue.
- Compatible with a wide range of endoscopes and camera heads, both for office and OR.
- NBI is a proprietary optical image enhancement technology that is only available on OLYMPUS products. NBI enhances the visualization of vessels and other tissues on the mucosal surface and is 20% brighter compared to previous models.
- Two types of structure enhancement are available: Type A for observation of larger mucosal structures with high contrast and Type B for observation of smaller structures such as capillaries.
- HD/SD-SDI and DVI output for high-quality digital video image transfer.
- Convenient digital-to-digital recording of still images into portable memory.

**Specifications**

- **Power Supply**
  - Voltage: 100 - 240V AC, within ±10%.
  - Frequency: 50/60 Hz, within ±1 Hz.
  - Consumption electric power: 150 W
  - Consumption heat output: 380 x 349 mm, 382 x 348 mm (maximum)
- **Weight:** 8.9 kg
- **Classification (medical/electrical equipment)**
  - Degree of protection against electric shock: Class II
  - Type of protection against electric shock: Depend on applied part (camera head or videocorder)
- **HDTV signal output**
  - Analog signal output: Either RS485/RS422 or RS422/RS422 output can be selected.
  - Digital signal output: HD-SDI (MPX sim: 2590, SD-SDI (MPX sim: 2595, 2W (980)), 250 MW(XGA), 700p or 7K(X) can be selected.
  - VS conversion: YC, YPbPr, and RGB simultaneous outputs possible.
- **White balance adjustment**
  - White balance adjustments are possible using the white balance button on the front panel.
- **Standard color chart output**
  - A color chart can be displayed.
- **Color tone adjustment**
  - The following color tone adjustments are possible using the color tone level adjustment button and color tone selector button on the keyboard:
    - Red adjustment: 8 steps (blue adjustment: 8 steps)
    - Chroma adjustment: 8 steps
- **Automatic gain control (AGC)**
  - The image can be electrically amplified when the light is inadequate due to the distal end of the endoscope being too far from the object.
- **Contrast**
  - The image contrast can be set to one of three modes (X, H, L) using the "CONTRAST" key on the keyboard.
  - H (High Normal Image) or L (Low Normal Image) is used. The dark areas are darker and the bright areas are brighter than in the normal mode.
- **Image enhancement setting**
  - Fine patterns or edges in the endoscopic images can be enhanced digitally 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 fine patterns in the image. (Edge enhancement: Enhancement of edges of the endoscopic image, automatic brightness adjustment based on the brightness of the endoscopic image)
- **Size selection**
  - The size of the endoscopic image can be changed using the "IMAGE SELECT" key on the keyboard.
- Freeze
  - An endoscopic image is frozen using an endoscope or the "FREEZE" key on the keyboard.
- Endoscope remote switch function
  - The functions of the remote switches on the endoscope can be set in the user panel.
- Reset to defaults
  - The following settings can be reset to the defaults using the reset button on the front panel:
    - Color tone = X mode
    - Image enhancement = "Contrast" level: 0
    - Optical digital observation = "Image size" = F1.5, "Contrast" = F1.5, "Image enhancement" = "Enlargement" = "Image size" = 2
- Remote control
  - The following ancillary equipment can be controlled (specified models only):
    - Monitor
    - Display
    - Video printer
  - Image display system
- Documentation
  - The following data can be displayed on the monitor:
    - Patient ID No., Patient name, Sex, Age, Date of birth, Date of recording, Date of recording time, Image frame No., Video recorder mode, Display image setting, Print order
- Displaying the record state
  - The recording state of the following ancillary equipment can be displayed on the monitor:
    - Display
    - Video printer
- Displaying the image information
  - The following data can be displayed on the monitor:
    - Structure enhancement level, Edge enhancement level, Contrast, Zoom ratio
- Advance registration of patient data
  - The following data of up to 60 patients can be entered prior to surgery using the keyboard.
  - Patient ID No., Patient name, Sex, Age, Date of birth
- Memory backup
  - The following settings are held in memory even after the video system center is turned OFF:
    - Color tone
    - Image enhancement
    - Image size
- Lithium battery
  - Life: 5 years

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