Combination of HDTV and NBI is now available with an LED light source in one design
**Main Features**

- HDTV imaging capability provides the best possible image quality for endoscopes, enabling observation of capillaries, mucosal structures, and other patterns.
- NBI (Narrow Band Imaging) enhances the visibility of capillaries and other structures on the mucosal surface.
- Newly adopted long-life LED light source minimizes lamp replacement, while reducing energy and noise.
- The pre-freeze function selects the clearest still image automatically. It may help to save time and eliminate the physician’s frustration.
- Two types of structure enhancement are available – mainly, the conventional Type A is ideal for observation of larger mucosal tissues with high contrast in the lower gastrointestinal tract, while the new Type B is suitable for observation of vascular tissues in the upper gastrointestinal tract.

**Specifications**

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

**Size**
- Dimensions (W x H x D): 295 x 145 x 425 mm
- Weight: 11.0 kg

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

**Observation**
- Examination lamp: LED lamp
- Analog BET signal output: R/G/B (NTSC/CHROMA: PAL), Y/C (NTSC/CHROMA: PAL), and R/G/B (NTSC/CHROMA: PAL) output can be selected.
- Analog BET digital output: W/T/B (NTSC/CHROMA: PAL), and H/W/I (NTSC/CHROMA: PAL).
- Digital signal output: HD-SDI (SMPTE 259M), SD-SDI (SMPTE 259M), and H/SP (NTSC, 1080i or 720p) can be selected.
- White balance adjustment: White balance adjustment is possible using the white balance button on the front panel.
- Standard color chart output: The “color bar” or the “50% white” screen can be displayed.
- Color tone adjustment: The following color tone adjustments are possible:
  - Red adjustment: ±6 steps
  - Blue adjustment: ±6 steps
  - Chroma adjustment: ±8 steps
- 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.
- Standard color chart output: The “Color bar” or the “50% white” screen can be displayed.
- Digital signal output: HD-SDI (SMPTE 259M), SD-SDI (SMPTE 259M), and H/SP (NTSC, 1080i or 720p) can be selected.
- Switching the enhancement modes: The enhancement level can be selected from 3 levels (1, 2, and 3).
- Image enhancement setting: The image contrast can be set to one of the following three modes (N, H, L).
  - N (Normal): Normal image
  - H (High): Dark areas are darker and the bright areas are brighter than in the normal image.
  - L (Low): Dark areas are brighter and bright areas are darker than in the normal image.
- Noise reduction: Noise is corrected by image processing.
- 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 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).
- Image size selection: The size of the endoscopic image can be changed using the “IMAGE SIZE” knob on the keyboard.
- Pre-massage: An endoscopic image is frozen using an endoscope or the “FREEZE” key on the keyboard.
- Pre-freeze: The image with the least blue is selected from the images captured in the set time period before freeze operation and displayed.
- Image observation: This is one of optical-digital observations using the narrow band observation light.
- Reset to defaults: The following settings can be reset to their defaults:
  - Color tone
  - Iris mode
  - Image enhancement mode
  - Image size
  - Contrast
  - Freeze
  - Release index
  - Electronic zoom
  - Optical-digital observation: Arrow pointer
  - Stopwatch
  - Characters on screen
  - Brightness
  - Red adjustment: ±8 steps
  - Blue adjustment: ±8 steps
  - Chroma adjustment: ±8 steps
  - Brightness adjustment method
  - Brightness adjustment method
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  - Brightness adjustment method

**Documentation**
- Patient data: The following data can be displayed on the endoscopic image screen:
  - Patient ID
  - Patient name
  - Sex
  - Age
  - Date of birth
  - Date of recording time, stopwatch
- Displaying the record state: The recording state of the following ancillary equipment can be displayed on the monitor:
  - Memory backup
  - User settings
  - Memory backup
- Displaying the image information: The following information can be displayed on the monitor:
  - Structure enhancement level
  - Edge enhancement level
  - Zoom ratio
  - Color mode
- Advance registration of patient data: The following information can be displayed on the monitor:
  - Patient ID
  - Patient name
  - Sex
  - Age
  - Date of birth

**Portable Memory**
- Media: MAJ-1925 (OLYMPUS)
- Recording format: JPEG (1/3-1/10) compression, JPEG (1/3-1/5) compression, JPEG (1/3-1/5) compression, JPEG (1/3-1/5) compression
- Number of recording images: JPEG: approx. 277 images, JPEG (1/3-1/5) approximation, 1080 images, JPEG (1/3-1/5) approximation, 2048 images
- User settings: Up to 20 user settings can be registered.
- Memory backup: The following settings are held in memory even after the video system center is turned OFF:
  - Color tone
  - Iris mode
  - Image enhancement mode
  - Color enhancement mode
  - Contrast
  - AGC
  - Color mode
  - White balance
- Lithium battery: Life: 5 years

**Specifications**

- Lithium battery: Life: 5 years
- Memory backup: The following settings are held in memory even after the video system center is turned OFF:
  - Color tone
  - Iris mode
  - Image enhancement mode
  - Color enhancement mode
  - Contrast
  - AGC
  - Color mode
  - White balance
- Lithium battery: Life: 5 years

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