SMARTEYE-II Plus

Next Generation Digital HD Video Endoscopy System

MITRA
Experience Peace of Mind

Ottomed
ENDOSCOPY

GREEN TECHNOLOGY

Model : SE-II Plus

Advanced technology with modern engineering

SmartEye-II Plus is a Next Generation Digital HD Video Endoscopy System offering best-in-class features to Gastroenterologists. The HD platform makes diagnostic and therapeutic endoscopic treatments smooth & hurdle free.
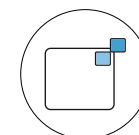

| HDTV — HD Imaging | mBLU (Mode1 Mode2) | Touch Screen |
| Extreme Close up Endoscopy (eCUE) | PIP/POP | Compact & Light Weight |

Top Features:.

- **Touch screen Interface**
  SmartEye-II Plus video processor has an intuitive and easy to use Touch Screen Interface technology which makes using it simple & helps to accelerate endoscopy procedures. The simple user interface has all operations on one screen making it easier for the nurse & technical staff & improves procedure efficiency.

- **mBLU Imaging**
  mBLU Imaging is an advanced optical & light sensor technology which increases the detection/characterisation of lesions/polyps by depicting brighter and clearer endoscopic images.
  The mBLU system utilises two modes:
  1. mBLU Mode 1 - For Spectral Mucosal Tissue Structure Enhancement.
  2. mBLU Mode 2 - For Vascular Architecture Visualisation.
  The diagnostic ability of the mBLU system allows more accurate discrimination of adenomas from non-adenomatous lesions as compared to conventional white light. Further studies can be made to validate these observations.

- **Extreme Close-Up Endoscopy (eCUE)**
  eCUE is an advanced technology pushing the boundaries of endoscopic imaging and diagnosis . It aims to help improve the visualisation of the miniature structures and mucosal pit patterns in great detail for study with clarity and in sharp focus. To achieve this, endoscopes are fitted with highly specialised custom made HD micro lenses with selectable apertures and focal lengths, which with the press of a button can generate sharp close up endoscopic images.

- **PIP/POP**
  In Picture In Picture (PIP) & Picture Out Picture (POP) display, users can watch different images from different sources while performing the endoscopy procedure, especially in ERCP or Ultrasound.

- **Video Signal I/O**
  Multiple Digital & Analog video I/O signals connectivity help to connect video system to multiple displays, recording softwares & devices, long distance video transmission.

- **Compact & Light Weight**
  LED-At-Tip technology helps to make the System compact & light weight. Easy to carry anywhere.

Specifications:

Model	OVP-SE II Plus	
Power Supply	Voltage	100-240 VAC
	Voltage fluctuation	Within+10%
	Frequency	50/60 Hz
	Frequency fluctuation	Within+3 Hz
	Consumption electric power	75VA
	Fuse rating	4 A, 250 V
	Fuse size	ø5.0 x 20.0 mm
Size	Dimensions & Weight	320(W) x 500(L) x 152(H) mm 10.3kg
Classification (medical electrical equipment)	Type of protection against electric shock	Class 1
	Degree of protection against electric shock of applied part	
	Degree of protection against explosion	
Observation	Video signal output	VBS composite (PAL), Y/C, HDMI, HD-SDI, DVI-D Simultaneous output is possible.
	Video signal input	VBS composite (PAL), HDMI
	White balance	By pressing the white balance switch on the front panel, automatic white balance can be performed.
	Color tone adjustment	The following color tone adjustments may be using the color tone adjustment on the "System Setup" menu * "R" control:±10 steps * "B" control:±10 steps
	Iris area selection	The area over which light is measured can be changed according the body part that is being observed. The following to choices can be made using the iris mode selector on the front panel. Average: Normal observation Peak : When focusing on and/or observing a small bright area.
	Image Enhancement mode setting	Structure enhancement in the endoscopic images can be enhanced electrically to increase the image sharpness.
	Gamma Correction	Gamma correction adjustments can be performed by adjusting the gamma value.
	Switching the enhancement modes	The enhancement level can be selected from 3 levels enhancement modes (Low, Med. and High) using the image enhancement mode on the front button panel.
	Freeze screen display	The endoscopic image can be displayed as a frozen image, using the freeze switch key from endoscope.
	Brightness Selector	The brightness can be adjusted using the brightness adjustment on the "system setup/camera adjustment" menu.
	Remote control	The following function can be controlled by the endoscope's remote switches (Freeze, Record, Light, White Balance, mBLU, Enhancement, Contrast, Focus, Iris, Image Size, Remove Data & EXT In)
	mBLU	This mode is used to switch the normal mode to mBLU mode with white or blue light or vice versa.
	External Storage	USB Memory Stick
Documentation	Patient Data	The following data and modes can be displayed on the video monitor using the keyboard- ID number ,patient Name, Sex, Age, Date of Birth, Comments.
	Display the record state	Date/time (built in clock)
	Pre-procedural patient data	For a maximum of 40 patients- ID number, patient Name, Sex, Age, Date of Birth
Image storage & retrieval	Memorization of selected setting	The following setting on the front panel are stored even when the video processor is turned OFF- System Setup, Setting the image record, Patient Data, Colour Tone, White Balance.
Memory Backup	Lithium Battery	Life : 5 years
Illumination	LED (White)	At Endoscope Tip
Air Feeding Method	Pump	Diaphragm type pump
	Airow	"Low", "High", "Stop"
	Airow Pressurization of water container (detachable)	Air pressurization of water container (detachable)

ICMED 13485 CERTIFIED

NABCB QM033

ISO 13485 CERTIFIED

ICMED 13485:2016 CERTIFICATION™ Intertek

*Specifications, Designs and Models are subject to change without any obligation on the part of the manufacturer

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