



ENDOSCOPE VISUALISER



**REAL-TIME  
VISUALISATION**

**ELUXEO<sup>®</sup> ULTRA**

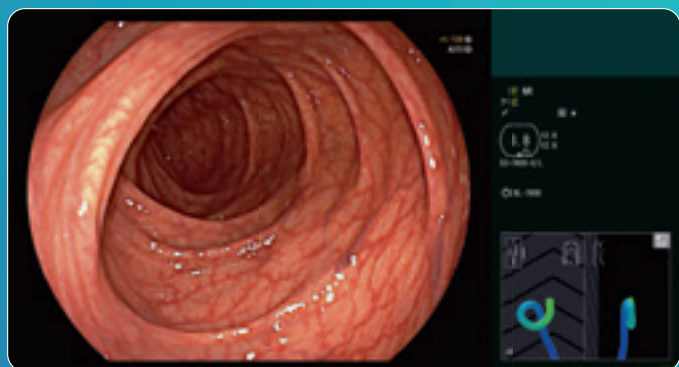
**FUJIFILM**  
Value from Innovation

# ENDOSCOPE VISUALISATION SYSTEM

Due to the increased incidence of colorectal cancer, the demands placed on the endoscopist during colonoscopy have never been greater. The need for accuracy, efficiency and simplicity has taken on greater significance while the demand for improved patient comfort and endoscopic information for early detection has also increased.

Taking into account that the structure, mobility and anatomical complexity of the colon varies with each individual, the insertion of the endoscope into the colon requires a high level of technical expertise. Colonoscopy can be difficult and time-consuming for the endoscopist but also uncomfortable for the patient.

Fujifilm's Endoscope Visualisation System displays the anatomical configuration of the endoscope in real-time by reproducing a coloured graphical representation of the endoscope next to endoscopic view\*. The visualisation system is designed to support physicians in understanding the behaviour of colonoscopes during the intubation, to enable the identification of loop formation and to reduce patient burden during an endoscopy.



\*The endoscope shape is to be displayed on the monitor for VP-7000 by using the PoP function.

## REAL-TIME VISUALISATION

### HOW THE VISUALISATION SYSTEM WORKS

Coils within the Transceiver Dish generate an electromagnetic field that is received by coils integrated within the length of the dedicated ELUXEO™ EC-760S-G/L, M colonoscope and within the Hand Marker. This electromagnetic field is used to determine the position of the coils in the endoscope, in order to reproduce a graphical representation of the endoscope next to endoscopic view\*. The current position of the Hand Marker is displayed on the endoscope shape visualisation screen which can be used to refer to the endoscope's location within the patient.

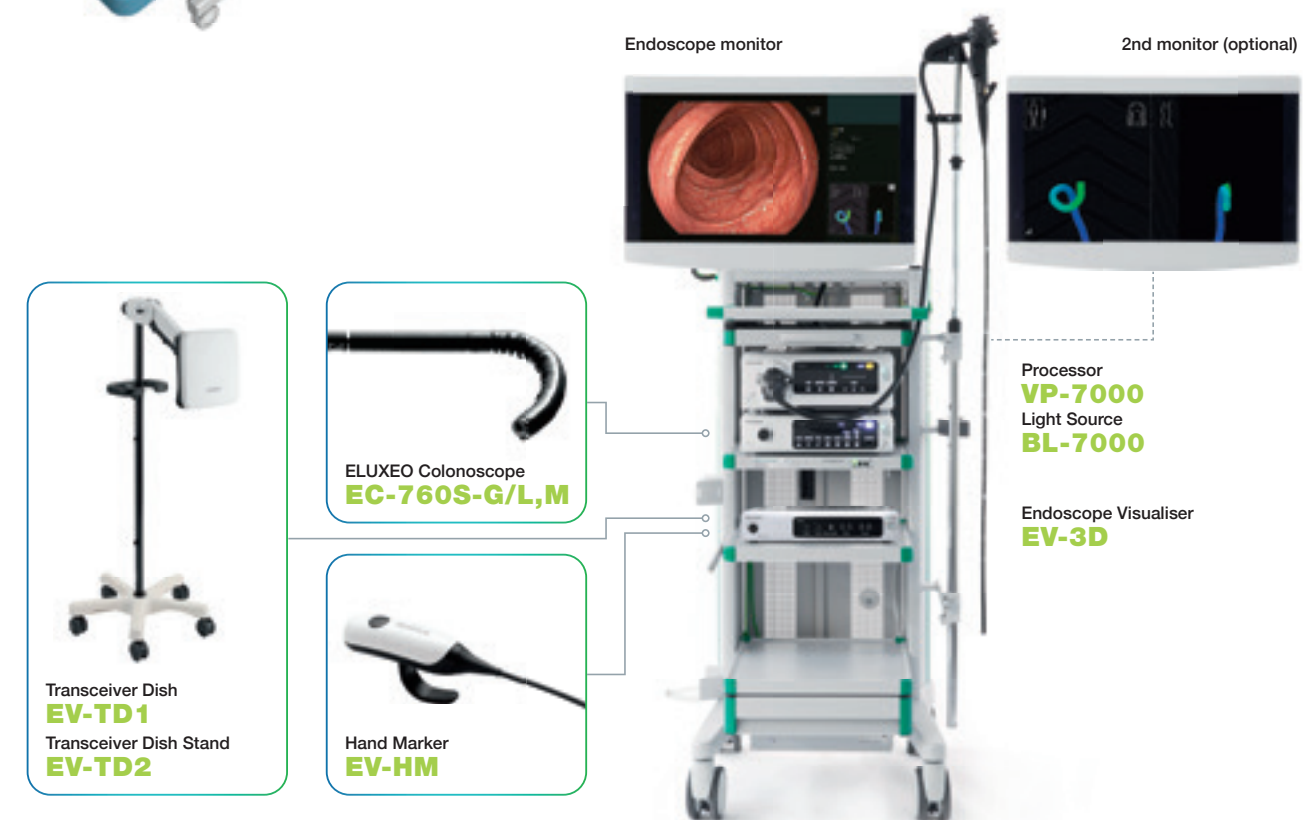


## FUNCTIONALLY DESIGNED

### COMPATIBLE WITH ELUXEO™ PROCESSOR AND LIGHT SOURCE

The Endoscope Visualisation System is compatible with the ELUXEO™ VP/BL-7000. Amongst other features, the dedicated ELUXEO™ EC-760S-G/L, M colonoscope is available in two lengths and is equipped with CMOS, LCI, BLI, Flexible Adjuster and Adaptive Bending technology. This system is complemented by the functionally designed Endoscope Visualiser (EV-3D), the Hand Marker (EV-HM), the Transceiver Dish (EV-TD1) and the Transceiver Dish Stand (EV-TD2).

The graphical representation of the colonoscope can be displayed alongside the endoscopic image on the same monitor, or optionally separate on a second monitor\*. When being shown on the same monitor via PoP function, the graphical representation of the colonoscope can be captured by VP-7000 along with the endoscopic still images for further documentation of the procedure.



\*The endoscope shape is to be displayed on the monitor for VP-7000 by using the PoP function.



# SIMPLE USER INTERFACE

## COLOUR GRADATION FOR INTUITIVE COMPREHENSION

Compared to a single-coloured visualisation, the gradated colour change of the virtual endoscope model aims to better identify overlapping parts of the endoscope (e. g. in loop formations).

## THREE DISPLAY MODES

Change between three different screen modes with just one button

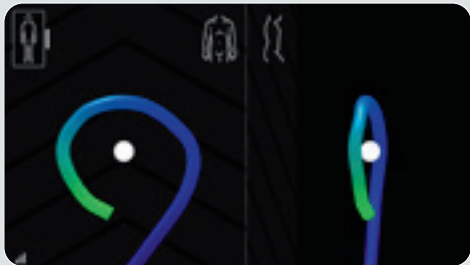
### SINGLE SCREEN MODE

Displays the endoscope model from one direction  
(out of 4)



### DUAL SCREEN MODE

Displays the endoscope model from two directions



### SKY VIEW MODE

Displays the endoscope model obliquely from above the foot section of the patient



### 1 VIEWING DIRECTION\*

2 options:



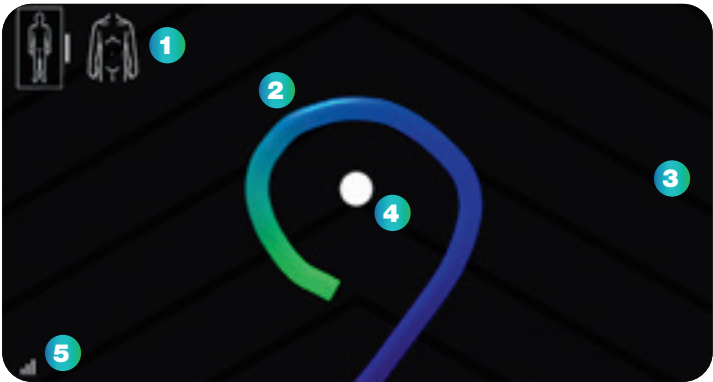
### 2 ENDOSCOPE GRAPHIC

### 3 IMAGE OF THE OPERATING TABLE

### 4 HAND MARKER POINTER

### 5 SETUP INDICATOR

## DESCRIPTION OF MODEL DISPLAY



## FUNCTIONS

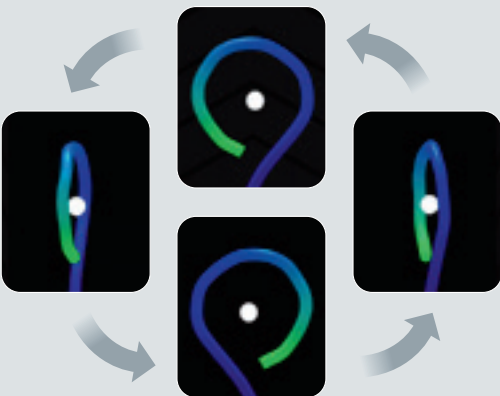
### ZOOM FUNCTION

Set the preferred magnification level of the endoscope graphic (ratio 1 to 4)\*\*



### IMAGE ROTATION

When the position of the patient is changed, the viewing direction can be rotated/adjusted accordingly\*\*



ENDOSCOPE VISUALISER EV-3D



\*Patient Base and Operating Table Base only in Single and Dual Screen Mode  
\*\*only in Single and Dual Screen Mode

# DESIGNED FOR **EASY OPERATION**

## ERGONOMIC AND FUNCTIONAL DESIGN



**ENDOSCOPE VISUALISER**  
Designed to be stackable with the ELUXEO VP/BL-7000 system\*



**HAND MARKER**  
**Functional design**

- Rounded design
- The cable is positioned at the side to avoid interference with the hand movements during procedures
- The hook consists of a soft material considering the physical contact to the patient's abdomen

**Integrated Switch for Viewing Direction**  
The four viewing directions can be set with one switch\*\*

**AER compatibility**  
The Hand Marker can be reprocessed in Automated Endoscope Reprocessors



**ELUXEO EC-760S-G/L,M**  
Ergonomically designed G7 Grip with the assigned button for change of the viewing direction



A unique symbol for the endoscope with "Visualiser"



**TRANSCIVER DISH**  
**Articulating arm**  
It enables to move the dish in parallel for the height adjustment

**Recessed hand grips**  
For better grip and movement control

**Weighted stand**  
For stable manoeuvrability

# SPECIFICATIONS

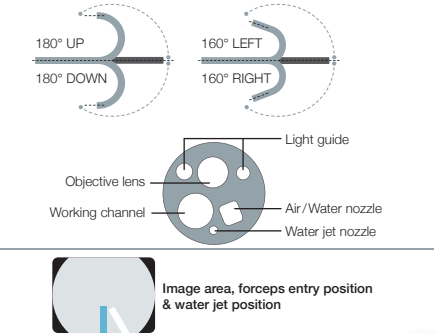
## ELUXEO™ COLONOSCOPE EC-760S-G/L, M



This routine colonoscope with visualisation function from the ELUXEO™ 760 series is equipped with CMOS technology and provides HD images and videos for daily practice. Close Focus allows observation from as little as 2 mm in depth.



Field of view	170°
Observation range	2–100 mm
Bending capability	Up 180° / Down 180° Right 160° / Left 160°
Distal end diameter	12.8 mm
Flexible portion diameter	12.8 mm
Working channel diameter	3.8 mm
Working length	M 1,330 / L 1,690 mm
Total length	M 1,650 / L 2,010 mm
Endoscope Visualiser	Compatible



### Endoscope Visualiser EV-3D

Power	100 – 240 V ~ 50/60 Hz
Current consumption	1.0 – 0.7 A
Type of colour	NTSC/PAL
Video Output	DVI-I (Resolution: 1280 x 1024/1920 x 1080 pixels) HD-SDI (Resolution: 1920 x 1080 pixels)
Fuse	T2.5AH 250 V x 2 (Rating: 2.5 A/250 V)
Supported endoscopes	EC-760S-G/L, M
Dimensions (W x H x D)	380 x 80 x 445 mm (including projection)
Weight	6.5 kg
Frequency band	200 – 2000 Hz

### Hand Marker EV-HM

Dimensions (W x H x D)	26 x 110 x 50 mm (including projection)
Cable Length	2.5 m
Weight	120 g

### Transceiver Dish EV-TD1

Magnetic field strength	Compliant with requirements of IEC 62311:2019
Dimensions (W x H x D)	260 x 260 x 80 mm (including projection)
Cable Length	7.0 m
Weight	2.0 kg
Frequency band	200 – 2000 Hz
Modulation system	Non-modulation
Effective radiated power	-80 dBm or less

### Transceiver Dish Stand EV-TD2

Dimensions (W x H x D)	550 x 1260 x 550 mm (including projection)
Weight	11.0 kg

### Processor & Light Source

Compatible processor	ELUXEO VP-7000
Compatible light source	ELUXEO BL-7000



\*When these three devices are stacked up on the shelf, please place EV-3D at the bottom of the stack  
\*\*only in Single and Dual Screen Mode



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