

BLI MODE (ZOOM)

LCI MODE

# DISCOVER LIGHT ENHANCED ENDOSCOPY

Also available with

WHITE LIGHT





### IMPROVING YOUR DAILY WORK WITH OUR INNOVATIVE SOLUTIONS\*

PROCESSORS

ENDOSCOPY SYSTEM

PREPARATION

& HYGIENICS

AFTER SALE

SERVICE

WORKSHOPS

AI TECHNOLOGY

ENDOSCOPIC ULTRASOUND SYSTEM Fujifilm is a pioneer in diagnostic imaging and information systems for healthcare facilities. We are constantly refining our clinically-proven products and technologies to help medical professionals perform their work more effectively and efficiently, setting new standards in endoscopy.

ENDOSCOPES

THERAPEUTIC DEVICES DOUBLE BALLOON ENDOSCOPY

\*Learn more about our innovative AI technology at www.cadeye.eu.



#### ELUXEO<sup>™</sup> Endoscopy System

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2

### THE DEFINITION OF LIGHT: MULTI LIGHT<sup>™</sup> TECHNOLOGY



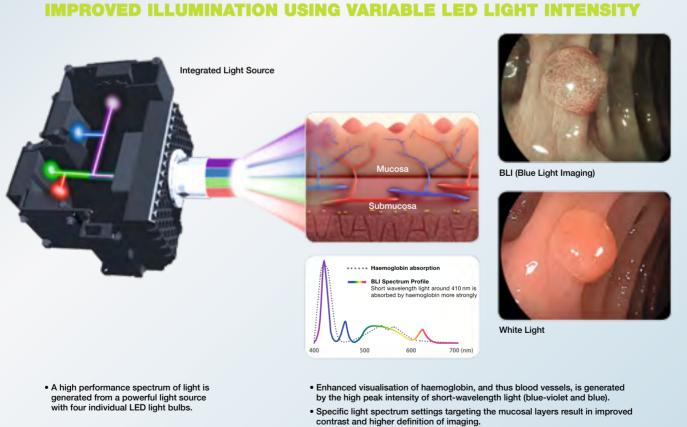


#### SEE MORE. DETECT MORE.

Achieving improved diagnostic and therapeutic results in endoscopic procedures is highly dependent on image quality. As one of the world's largest imaging company, our long-standing experience in medical imaging has allowed Fujifilm's engineers to develop Multi Light<sup>™</sup> technology, fulfilling the need for improved visualisation in endoscopy today and in the future.

This illumination system meets high standards in brightness and contrast providing the observation modes LCI and BLI.

Specifically designed for this illumination system, the ELUXEO<sup>™</sup> 700 series of endoscopes featuring Multi Zoom and Freeze function provides detailed highresolution imaging for both diagnosis and pre-therapeutic assessment.





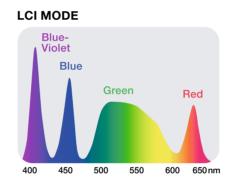
GASTROENTEROLOGY

### **EFFECTIVE LIGHT CONFIGURATION** FOR EXCELLENT VISUALISATION

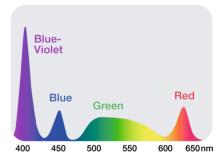
High-intensity illumination based on Multi Light<sup>™</sup> technology creates high-quality images with White Light Imaging and the observation modes LCI and BLI. With the involvement of numerous clinical experts, the ideal composition of four LEDs for each observation mode has been developed to achieve excellent results in illumination. With a simple push of a button, you can easily switch between the following observation modes:

#### **EFFECTIVE LIGHT CONFIGURATION OF FOUR LEDS**

WHITE LIGHT IMAGING

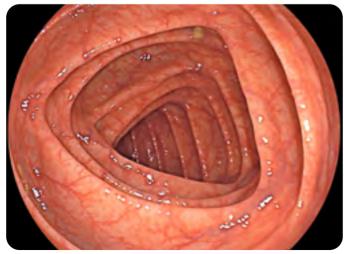


**BLI MODE** 



#### WHITE LIGHT IMAGING

This endoscopy system provides high image quality in terms of sharpness and brightness to gather suitable visual information for diagnostic and therapeutic procedures in daily clinical practice.



Colon – White Light Imaging

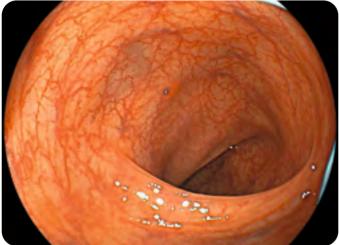


Oesophagus - White Light Imaging



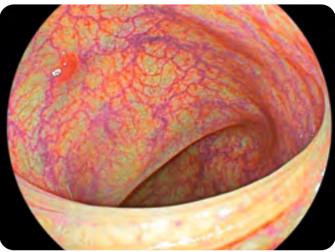
### LCI (LINKED COLOR IMAGING) MODE

LCI differentiates the red colour spectrum more effectively than White Light Imaging thanks to its pre-process composition of light spectrum and advanced signal processing. The increased colour contrast in red colour leads to improved visibility of abnormalities, inflammation and delineation.

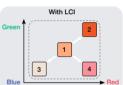


Colon - White Light Imaging





Colon – LCI Mode



### BLI (BLUE LIGHT IMAGING) MODE

High-intensity contrast imaging with BLI is expected to be helpful for improved visualisation of superficial vascular and mucosal patterns. Focussing on the characteristics of short wavelength absorption of haemoglobin (at 410 nm) combined with specific white light spectral colours results in improved contrast imaging.





Colon – White Light Imaging

Colon – BLI Mode

### **145 x MULTI ZOOM**\* FOR DETAILED CHARACTERISATION

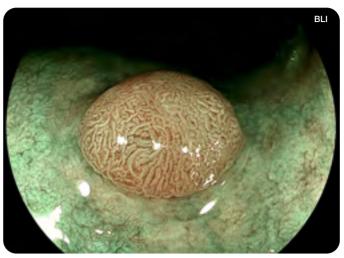




#### **OPTICAL MAGNIFICATION**

The easy-to-control Step Zoom function supports efficient work of the optical zoom with a simple press of a button. Users are able to choose between the 2-, 3- or 5-Step mode or continuous zoom mode to meet individual needs and adjust to the preferred setting for the endoscopic procedure.

Fujifilm's Multi Zoom serves with a maximum optical magnification of  $145 x^*$  to provide a highly detailed image of the mucosal surface and vascular patterns.

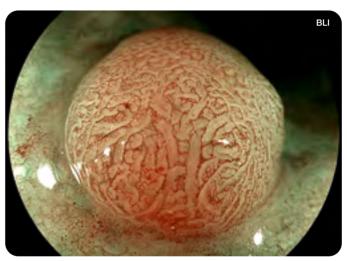


2-Step Zoom with a magnification of about 60 x

#### VARIOUS MULTI ZOOM MODES

	I				
Mode	Normal	Low (about 60 x)	Middle (about 85 x)	High (about 100 x)	Maximum (145 x)*
2-Step Zoom					
3-Step Zoom					
5-Step Zoom					-
Continuous Zoom		:		: : : :	

EG-760Z, EC-760Z and EC-760ZP are equipped with the Multi Zoom function.



3-Step Zoom with a magnification of about 85 x

#### **SMOOTH OPERATION**

The location of the switch button on the endoscope has been enhanced. Due to improved ergonomic design, switching to the next zoom level is even easier and more straight forward, being expected to facilitate precise and comfortable manoeuvrability of the endoscope.



5-Step Zoom with a magnification of about 145 x\*



### **EFFICIENT HANDLING** PLUG IN AND PROCEED





### The ELUXEO<sup>™</sup> 700 series of Fujifilm endoscopes with One-Step Connector and easy-to-control G7 grip is designed to lead you efficiently and effectively through your examination.

#### ONE-STEP CONNECTOR FOR EASY PLUG-IN

The One-Step Connector can be plugged in easily and the 700 series endoscopes is the first to incorporate an integrated wireless power supply that provides high speed transmission of data. The design helps to simplify the cleaning process and also reduces the potential for accidental damage.



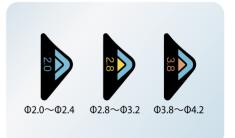
#### G7 GRIP FOR COMFORT IN DAILY PRACTICE

In close cooperation with leading endoscopists, Fujifilm has renewed the layout and size of the components of the control portion and repositioned the angulation knobs to increase accessibility from the grip. The G7 grip is designed to have an easy and comfortable feel that improves performance and reduces stress during clinical procedures.





- 1 Colour code of G7 control portion
- 2 Identification colour of working channel size
- 3 Working channel diameter
- 4 Corporate brand logo
- 5 Model No.



Each 700 series endoscope displays the information required to choose compatible accessories, which helps to facilitate on-the-spot decision making.



GASTROENTEROLOGY

### CMOS TECHNOLOGY BRILLIANCE RIGHT FROM THE TIP



CMOS-CHIP IN THE TIP

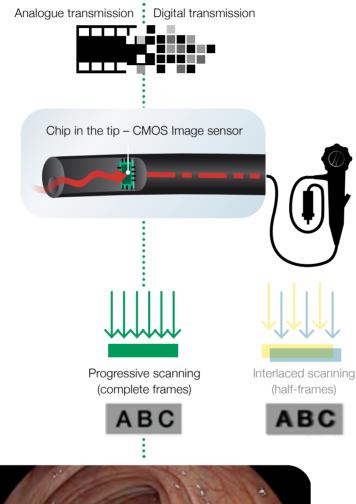
Protect your distal end during transport or storage with the Shepherd Endoscope Protector.





#### FUJIFILM'S CMOS TECHNOLOGY WITH MEGAPIXEL

With the CMOS chip built directly into the tip of the scope, the signal is digitally transmitted through the device, thus providing high-resolution imaging. All 760 endoscopes are equipped with CMOS.



The CMOS chip is positioned directly in the tip of the scope and transforms the analogue signal into a digital signal at the site of examination. This ensures brilliant image transmission with reduced noise.

**CMOS technology** supports 60 frames progressive scanning technology where complete images are processed, rather than the half-frames processed when using the interlaced scanning method. The result is a high-resolution image and smooth moving images with reduced blurring.



Colon in super high resolution

### ELUXEO<sup>®</sup> ULTRA MEETS ARTIFICIAL INTELLIGENCE









CAD EYE works with the expansion unit EX-1 and the CAD EYE software EW10-EC02. With software EW10-SC01 up to 30 hours of movie and still image material can be stored in the internal memory of EX-1. It can easily be controlled with the scope switch or directly at the processor.



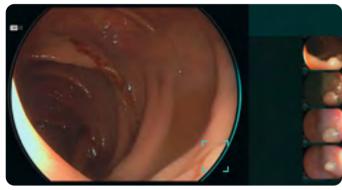


The novel function CAD EYE has been developed utilising AI deep learning technology and is compatible with Fujifilm's ELUXEO<sup>™</sup> endoscopy series to support endoscopic lesion detection and characterisation in the colon.



#### REAL-TIME DETECTION

**CAD EYE is aimed to improve the real time polyp detection rate** to expert level, helping to recognise flat lesions, multiple polyps simultaneously as well as any lesions at the corner of the image. CAD EYE Detection is possible with White Light and LCI (Linked Color Imaging) mode.

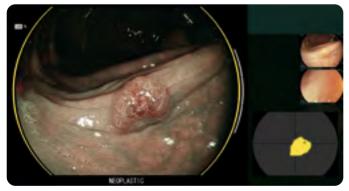


White Light Mode

LCI Mode

### CHARACTERISATION SUPPORT

Once a suspected polyp is detected by CAD EYE Detection (WLI or LCI), CAD EYE Characterisation – in combination with BLI – can support endoscopists in the predictive histopathological diagnosis of the polyp. This function analyses in real-time and without freezing or zooming if a polyp is hyperplastic or neoplastic, which is visually indicated by the use of different colour codes in the Position Map. CAD EYE Characterisation is aimed to make procedures more efficient by increasing the accuracy of diagnosis to expert-level.\*



BLI Mode - Neoplastic



BLI Mode – Hyperplastic

\*According to the validation study, the accuracy of non experts with the assistance of CAD EYE Characterisation was equivalent to that of an expert.

### FOR FURTHER INFORMATION VISIT WWW.CADEYE.EU



# 760/740 SERIES ENDOSCOPES FOR COMFORTABLE EXAMINATIONS

40



#### **UPPER GI ENDOSCOPY**

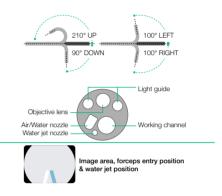
#### ELUXEO" VIDEO GASTROSCOPE EG-760R

### 

This routine gastroscope from the ELUXEO<sup>™</sup> 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	140°
Observation range	2-100mm
Bending capability	Up 210°/Down 90° Right 100°/Left 100°
Distal end diameter	9.2mm
Flexible portion diameter	9.3 mm
Working channel diameter	2.8 mm
Working length	1,100 mm
Total length	1,400 mm

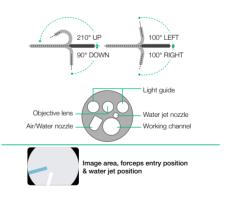


# ELUXEO VIDEO GASTROSCOPE EG-760Z Optical Magnification

This zoom gastroscope features the well-known 145x Multi Zoom\* which leads to clear and more detailed visualisation, supporting deeper analysis of mucosal structures. It has a small bending radius and similar functionality to the routine gastroscope including all features.

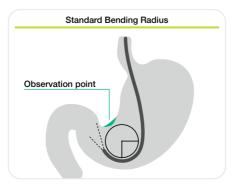


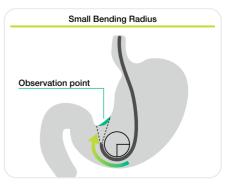
Field of view	Normal 140°/Close 56°
Observation range	1.5–100mm Normal 3–100mm Close 1.5–2.5mm
Bending capability	Up 210°/Down 90° Right 100°/Left 100°
Distal end diameter	9.9mm
Flexible portion diameter	9.8 mm
Working channel diameter	2.8 mm
Working length	1,100 mm
Total length	1,400 mm



#### **SMALL BENDING RADIUS**

Features a tight bending section radius with improved angulation. It is designed to approach the targeted observation point and lesion more easily and with less effort.





#### **UPPER GI ENDOSCOPY**

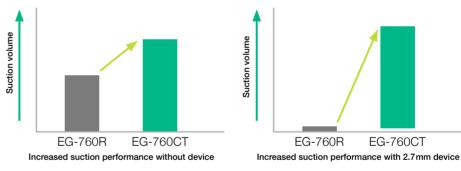
### **ELUXEO**<sup>®</sup> VIDEO GASTROSCOPE **EG-760CT** Therapeutic Type

This gastroscope from the ELUXEO<sup>™</sup> 760 series is equipped with a large 3.8 mm working channel that is especially suitable for therapeutic procedures compared to the standard gastroscope EG-760R with a working channel of 2.8 mm. In addition to therapeutic use, the gastroscope features LCI, intended to improve detection, and BLI, intended to characterise lesions, making it an excellent gastroscope for observation.



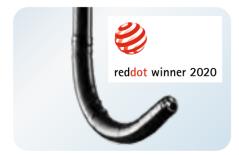
#### ENLARGED WORKING CHANNEL FOR IMPROVED SUCTION PERFORMANCE

The 3.8 mm working channel has a higher suction capacity compared to other gastroscopes, especially when the therapeutic accessory is inserted into the working channel.

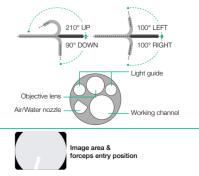


### ELUXEO" VIDEO GASTROSCOPE EG-740N UltraSlim Type

This ultraslim gastroscope with a distal end diameter of 5.8 mm is expected to be useful for paediatric use and for cases featuring stenosis. The slim distal end also supports a soft transnasal insertion and offers a potential to alleviate patients' discomfort.



Field of view	140°
Observation range	3–100 mm
Bending capability	Up 210°/Down 90° Right 100°/Left 100°
Distal end diameter	5.8 mm
Flexible portion diameter	5.9 mm
Working channel diameter	2.4 mm
Working length	1,100 mm
Total length	1,400 mm





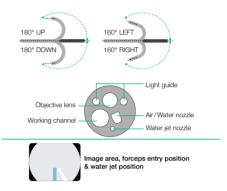
#### LOWER GI ENDOSCOPY

#### ELUXEO" VIDEO COLONOSCOPE EC-760R-V/M, I, L

This routine colonoscope has a wide field of view of 170° as well as a large working channel diameter of 3.8 mm. It features the G7 grip and the Flexibility Adjuster. In addition, it has a slim diameter of 12.0 mm and includes a water jet function and CMOS technology.



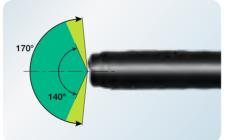
Field of view	170°
Observation range	2-100 mm
Bending capability	Up 180°/Down 180° Right 160°/Left 160°
Distal end diameter	12.0 mm
Flexible portion diameter	12.0 mm
Working channel diameter	3.8 mm
Working length	1,330/1,520/1,690mm
Total length	1,650/1,840/2,010mm





МШ

With EC-760R and EC-760P, a wide 170° field of view is available. It is designed to observe and approach smoothly, even areas that are hard to observe, such as the reverse side of folds.

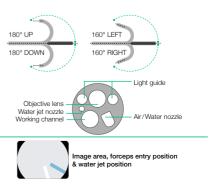


# ELUXEO" VIDEO COLONOSCOPE EC-760Z-V/M, L Optical Magnification

The new zoom colonoscope is an allrounder. It features the brilliant and easy-to-operate 145x Multi Zoom<sup>1</sup> magnification which leads to more detailed visualisation, supporting a deeper analysis of mucosal and vascular patterns. Compared to the EC-760ZP paediatric zoom type, it comes with a stiffer insertion tube and a larger working channel (3.8 mm vs. 3.2 mm), making it well suited also for basic therapeutic procedures.



Field of view	Normal 140°/ Close 56°
Observation range	1.5-100 mm Normal 3-100 mm Close 1.5-2.5 mm
Bending capability	Up 180°/Down 180° Right 160°/Left 160°
Distal end diameter	12.8 mm
Insertion tube diameter	12.8 mm
Working channel diameter	3.8 mm
Working length	1,330 mm / 1,690 mm
Total length	1,650 mm / 2,010 mm



#### LOWER GI ENDOSCOPY

### ELUXEO" VIDEO COLONOSCOPE EC-760ZP-V/M, L Optical Magnification

The slim zoom colonoscope features the brilliant and easy-to-operate Multi Zoom with 145 x maximum magnification\*. Together with BLI, details of the mucosal and vascular patterns become visible. Like the routine scope, it features the full range of functionalities including flexible adjustment even with the slim diameter of 11.8 mm.



Field of view	Normal 140°/Close 56°	
Observation range	1.5–100mm Normal 3–100mm Close 1.5–2.5mm	180° UP 180° DOWN 160° RIGHT
Bending capability	Up 180°/Down 180° Right 160°/Left 160°	
Distal end diameter	11.7 mm	Light guide
Flexible portion diameter	11.8mm	Objective lens
Working channel diameter	3.2mm	Working channel
Working length	1,330/1,690mm	
Total length	1,650/2,010mm	Image area, forceps entry position & water jet position

## ELUXEO" VIDEO COLONOSCOPE EC-760P-V/M, L Ultraslim Type

This ultraslim colonoscope from the ELUXEO<sup>™</sup> 760 series has a distal end diameter of only 11.1 mm and is therefore expected to be useful for paediatric and therapeutic use. A wide 170° field of view enables a visualisation even in hard-to-observe areas. It features the G7 grip and the Flexibility Adjuster for easier insertion.



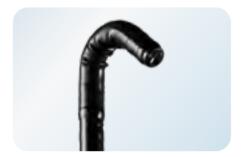
Field of view	170°	
Observation range	2-100mm	180° UP 160° LEFT
Bending capability	Up 180°/Down 180° Right 160°/Left 160°	180° DOWN 160° RIGHT
Distal end diameter	11.1 mm	Light guide
Flexible portion diameter	11.5 mm	
Working channel diameter	3.2mm	Objective lens
Working length	1,330/1,690mm	Working channel Air/Water nozzle
Total length	1,650/2,010mm	Water jet nozzle



#### LOWER GI ENDOSCOPY

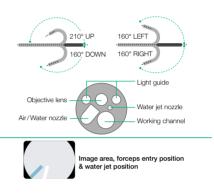
### ELUXEO<sup>®</sup> VIDEO COLONOSCOPE EC-740T/M, L Slim & Treatment Type

This slim colonoscope is equipped with Advanced Force Transmission, 210° up-angulation and a G7 grip that supports excellent manoeuvrability. It is expected to be useful for more challenging anatomies and paediatric use, such as stenosis, severe inflammation, or anatomical adhesion. With the additional observation modes LCI, intended to improve detection, and BLI, intended to characterise lesions, this provides an excellent colonoscope for both observation and therapeutic procedures.



Field of view	
Observation range	;
Bending capability	
Distal end diameter	!
Flexible portion diameter	
Working channel diameter	;
Working length	
Total length	







Smart Bend provides excellent manoeuvrability, observation and therapeutic treatments from 210° up angulation and a small bending radius. It is expected to be useful for treatment of difficult-to-reach lesions.



Smart Bend colonoscope



Colonoscope without Smart Bend





#### COLOASSIST ADJUST



ColoAssist Adjust has been specifically developed for the 760 series colonoscopes. It features the Flexibility Adjuster with different levels of stiffness as well as Advanced Force Transmission and Adaptive Bending, expected to be helpful for manoeuvrability.

#### FLEXIBILITY ADJUSTER

The stiffness of the flexible portion of the scope can be easily adjusted according to your preference. This is expected to be helpful when inserting the scope into segments such as the sigmoid colon and the transverse colon where the endoscope follows the intestinal tract more smoothly.





ADVANCED FORCE TRANSMISSION

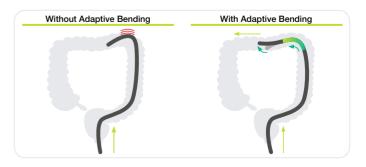
The flexible portion is designed to transmit the pushing, pulling and rotating movements from the hand to the distal end of the endoscope. It is expected to be helpful for manoeuvrability inside the digestive tract.



#### ADAPTIVE BENDING



The end of the bending section is soft, allowing the scope to bend easily. The flexible bending section has been designed to return more easily to its straight form after passing through the tight curves of the colon.



stiff

soft



#### TISSUE MANAGEMENT

#### **IMPRESSIVE PRECISION IN EXTREME POSITIONS**

#### medw@rk. MANTA Injection Needles

Follows every curve: the flexible Manta injection needle even finds its way through highly convoluted regions of the body and yet retains its high precision. Very high kink-resistance and single handed operation ease the application. The improved needle design is supposed to make the injection of fluids easier.

#### COLD POLYP RESECTION IN A NEW DIMENSION

#### medw@rk. CrossSnare ZERO Polypectomy snares for cold snaring

Great effect on small polyps: Less effort and excellent cutting performance – that's what CrossSnare ZERO offers you thanks to its reinforced spiral tube design. Equipped with extra thin cutting wire and available in two different sizes, CrossSnare ZERO is an excellent choice for polyps up to 9 mm and supports you well in implementing the ESGE guideline\*.

#### DIRECT ROTATABILITY AND A HIGH DEGREE OF FLEXIBILITY

#### $\textbf{medw} \textcircled{O} \textbf{rk}_{\circ} \text{ OCTOPUS Foreign body retrieval net}$

High volume: The Octopus retrieval net takes on polyps and foreign bodies. The sturdy structure of the frame ensures reliable removal. Versatility in use, it can be used for several foreign bodies – due to its reservoir function.

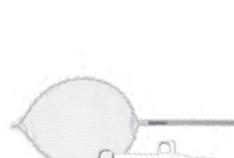
#### **CONTINUITY IN USE**

#### medw@rk. KOALA Polytrap

Of course it cannot handle two kilos of eucalyptus, but it can manage several polyps cleanly. The two or four removable filter trays of the koala polyp trap facilitate easy removal of tissue specimens.

\* Ferlitsch Monika et al.: "Colorectal polypectomy and endoscopic mucosal resection (EMR): European Society of Gastrointestinal Endoscopy (ESGE) Clinical Guideline", Endoscopy 2017.









### EXCELLENT ENDOSCOPY SYSTEM WITH MULTI LIGHT<sup>™</sup> TECHNOLOGY

EIZO CuratOR EX 3241: FOR A 4K RESOLUTION COMBINATION WITH THE ELUXEO SYSTEM



· An 2 2 2 5 Summer

#### Design Award Winner ELUXEO<sup>TM</sup> BL-7000 and VP-7000







ELUXEO<sup>™</sup> 7000



LIGHT SOURCE BL-7000



The ELUXEO<sup>™</sup> endoscopy system provides a future ready solution that combines excellent illumination with refined operational modalities. Its Multi Light<sup>™</sup> technology makes it an eco-friendly system with longer durability that is designed to support daily practice.

#### 4-LED MULTI LIGHT<sup>™</sup> SOURCE WITH HIGH DURABILITY ELUXEO<sup>™</sup> BL-7000

A reliable light source is a prerequisite for use in large clinics as well as smaller outpatient centres to ensure procedures can take place as scheduled. To achieve the highest standards, the eco-friendly ELUXEO<sup>™</sup> 7000 system features the 4-LED Multi Light<sup>™</sup> Source, which outperforms conventional Xenon or Halogen light sources: With a 10,000 hours' average life expectancy of the LED lights, the ELUXEO<sup>™</sup> system has a far longer durability while having a much lower energy consumption, resulting in a better cost-efficiency.

	0	1000	2000	3000	4000	5000	6000	7000	8000	9000	10,000
LED lamp		-									
Xenon lamp											
Halogen lamp											
Halogen amp	-					1.16	ncy in hours <sup>1</sup>				

Our confidence in the ELUXEO system BL-7000 is reflected by Fujifilm's **Durability Warranty**, which covers any defect of the LED light source unit that is attributable to a manufacturing or assembly fault under normal use for a period of five years or 10,000 operating hours, whichever comes first.<sup>2</sup>

#### 

The ELUXEO<sup>™</sup> video processor VP-7000 enables you to make use of the many features provided by Fujifilm's wide range of scopes along with the 4-LED illumination system and its visualisation modes LCI and BLI. It is also compatible with the 600 and 500 series of endoscopes. The processor creates high quality images and videos displayed in full HD on the monitor. Automatic backup mode for data storage is integrated and the processor is also DICOM compatible.

#### EXCELLENT MONITOR EIZO CURATOR® EX3241

The LCD monitor CuratOR EX3241<sup>°</sup> features 4K UHD resolution (3840 x 2160 pixels) as well as an energy-efficient LED backlight with a brightness of 700 cd/m<sup>2</sup>. The resolution of 3840 x 2160 is four times higher than Full HD and can faithfully reproduce the image taken from a 4K endoscope. HDR (High Dynamic Range) simulates the way colour and light are perceived by the human eye. The monitor is also equipped with the perceptual quantization (PQ) curve and hybrid log-gamma (HLG) for supporting HDR. This ensures images from HDR-supported endoscope cameras are displayed without crushing blacks and more closely resemble human vision.

Input signal	DisplayPort (HDCP 1.3), HDMI (HDCP 2.2/1.4), BNC(12G-SDI), BNC (3G-SDI), DVI-D x 2 (HDCP 1.4)
Output signal	BNC (12G-SDI), BNC (3G-SDI), DVI-D
Dimensions (W x H x D)	760 × 463 × 87
Weight	12.8 kg

1 Based on Fujifilm's recommended conditions.

2 This Warranty is only valid according to the terms and conditions of the Durability Warranty Policy.

3 Manufactured by EIZO Corporation, Japan. https://eizo-or.com/en/global/products/monitors/ex3241



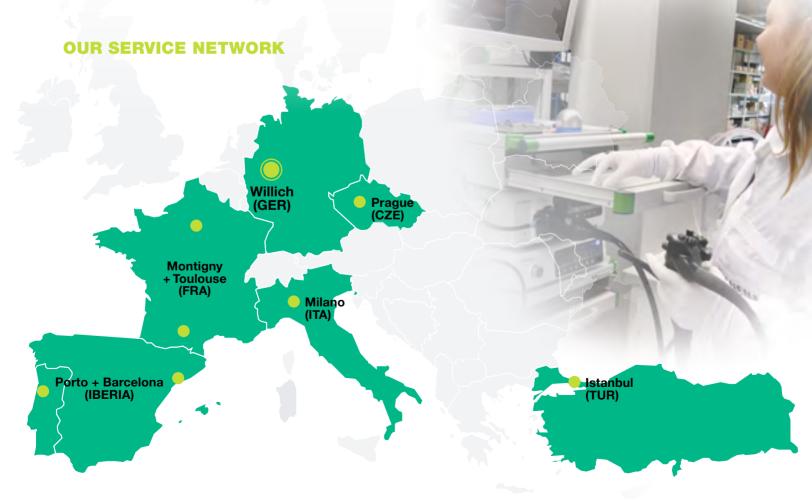
### OUR SERVICE COMMITMENT

#### **THINK GLOBALLY – ACT LOCALLY**

Our service strategy aims for highest customer satisfaction by offering a comprehensive service and being close to the local markets. Eight service centers with the headquarters in Willich (Germany) are spread over Europe and employ highly qualified in-house technicians and experts in the field service, allowing a faster and better coverage of all the customer needs.

#### **OUR FULL COMPREHENSIVE SERVICE CONTRACT COVERS**

- In-house repair service
- All repair costs
- Highly qualified field service engineers
- Large variety of loan devices
- Maintenance service and damage prevention
- Support for reprocessing and on-site consulting











#### FUJIFILM Europe GmbH

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