

ELUXEO[®] MEETS ARTIFICIAL INTELLIGENCE DETECTION AND BLI

CHARACTERISATION

HYPERPLASTIC





ACCELERATE INNOVATION



Fujifilm has pursued and developed cutting-edge image processing technologies for many years. And in 2018, by utilising these technologies it has developed its proprietary medical AI technology.

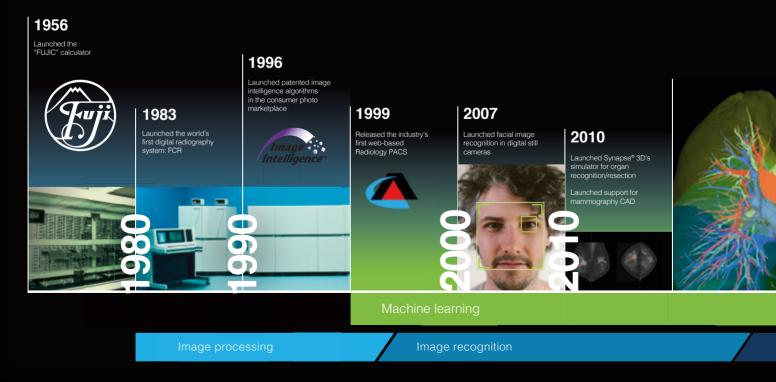
REILI – MEDICAL AI TECHNOLOGY

Fujifilm continues to develop technologies that can be applied to medical image diagnosis. One particular focus has been the development of technologies powered by REiLI for the radiology field as well as medical ultrasound and, more recently, endoscopy.

CAD EYE FOR DETECTION AND CHARACTERISATION

CAD EYE has been developed utilising AI deep learning technology and is compatible with Fujifilm's ELUXEO[™] endoscopy series to support endoscopic lesion detection and characterisation in the colon.

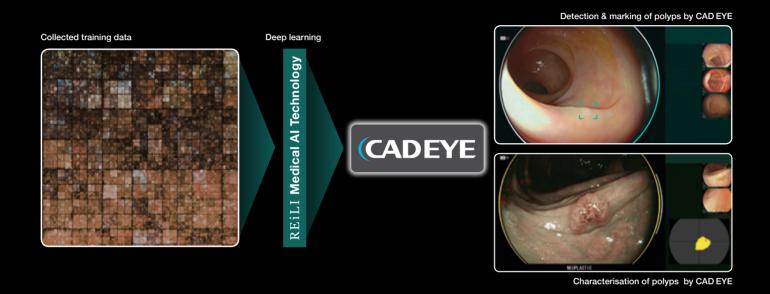
FUJIFILM'S HISTORY OF INNOVATIONS IN ARTIFICIAL INTELLIGENCE





DEEP LEARNING TECHNOLOGY

CAD EYE has been trained with a powerful supercomputer located in Fujifilm's global AI technology centre in Tokyo, utilising an immense amount of clinical images using Fujifilm endoscopy systems. As a result, CAD EYE is a customised detection and characterisation support compatible with the ELUXEO[™] system.

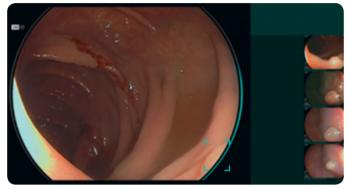






REAL-TIME DETECTION

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



USER-FRIENDLY INTERFACE

The development of the interface has been designed to enable comfortable procedures. It does not interfere with clinical images and minimises required eye movement. Its display is designed to be simple and intuitive for excellent support during long hours in the examination room.



¬ DETECTION BOX

Displays the area where the suspicious polyp is detected.



VISUAL ASSIST CIRCLE Lights up in the direction where the suspicious polyp is detected.

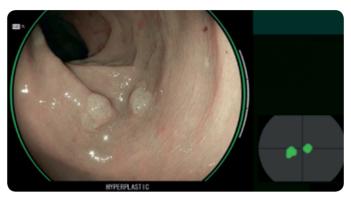
DETECTION SOUND Sound signal when a suspicious polyp is detected. Volume can be defined for each user.

CHARACTERISATION SUPPORT

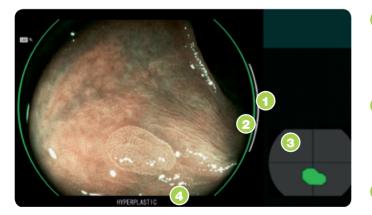
Once a suspected polyp is detected by CAD EYE Detection (WLI or LCI), CAD EYE Characterisation – in combination with BLI – can support endoscopists in the diagnosis of the polyp. This function analyses in real-time and without freezing or zooming if a polyp is hyperplastic or neoplastic, which is visually 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



STATUS BAR

Indicates status of characterisation analysis
regarding to area suspected.

VISUAL ASSIST CIRCLE

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GREEN: Characterisation HYPERPLASTIC YELLOW: Characterisation NEOPLASTIC



POSITION MAP

Indicates the position of the suspicious area, this software is characterising.

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CHARACTERISATION RESULT

HYPERPLASTIC: hyperplastic polyps & SSL NEOPLASTIC: adenoma and cancer

*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 YOUR DAILY EXAMINATION

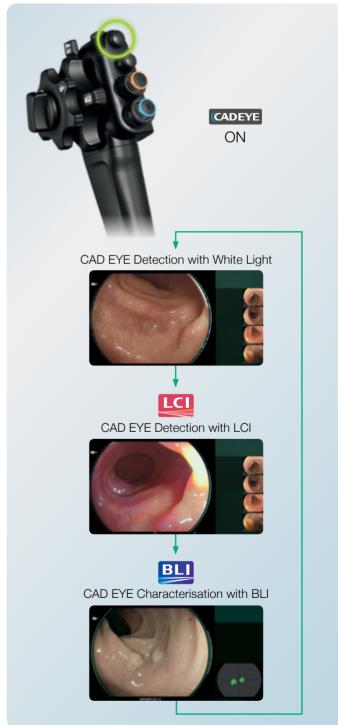
CAD EYE can be activated and deactivated simply by a push on the endoscope button or directly at the processor.

SCOPE SWITCH 3



The function of each switch can be defined individually.

SCOPE SWITCH 2



MOVIE RECORDING FUNCTION*

Full HD movies can be recorded and stored at the expansion unit EX-1. It can be controlled via the scope switch or directly at the ELUXEOTM processor.





SPECIFICATIONS

CAD EYE works with the expansion unit EX-1 and the CAD EYE software EW10-EC02 and can store up to 30 hours of video material in its internal memory. It can easily be controlled with the scope switch or directly at the processor.

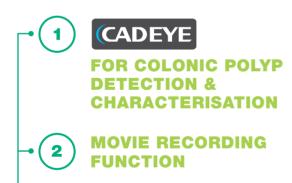
Expansion Unit EX-1		
	Compatible processors	VP-7000, EP-6000
	Compatible scopes	700 series colonoscopes**
	Output	DVI-I x1, DVI-D x1
	Input	DVI-I x1
	Memory	30 hours of video material, Full-HD, MP4
	Power rating	100-240 VAC +/- 10%, 50/60 Hz, 1.25 to 0.60 A
	Dimensions (W x H x D)	370.0 x 99.0 x 465.6 mm
	Weight	7.1 kg

 ** Movie recording function is compatible with 700/600/500 scopes excluding EUS scopes

Software EW10-EC02

Package Content

USB flash drive for CAD EYE installment, user manual



Expansion Unit EX-1



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