

Japan's Olympus announces US FDA clearance of its most advanced imaging endoscopes

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EDOF technology provides a continuously sharp image with minimal focal adjustment as part of the EVIS X1 endoscopy system

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Olympus, a Japan-headquartered medical technology company, has announced the US FDA 510(k) clearance of its EZ1500 series endoscopes featuring Extended Depth of Field (EDOF™) technology.

EDOF endoscopes – the GIF-EZ1500 gastroscope and the CF-EZ1500DL/I colonoscope – represent Olympus' most advanced imaging and latest innovation as part of the EVIS X1™ endoscopy system. By allowing physicians to obtain sharp images, EDOF technology allows an entire lesion to be kept in focus and may aid in detection as endoscopists inspect the mucosal lining of the GI tract.

EDOF technology creates an image in total focus by using two prisms to split light entering the endoscope lens into two separate beams with near- and far-focused images. Those beams are then projected simultaneously onto an image sensor, combining them into one image with a wide depth of field.

Compared to the previous generation of Olympus scopes, this technology provides improved visibility and less blurring. The EZ1500 series EDOF scopes allow for closer distance in normal mode compared to the CF-HQ190L/I – 3mm vs. 5mm – without blurring, limiting the need to switch from normal to near mode.

The GIF-EZ1500 gastroscope and the CF-EZ1500DL/I colonoscope also feature a lightweight ErgoGrip™ control section and compatibility with Texture and Color Enhancement Imaging (TXI™), Red Dichromatic Imaging (RDI™) and Narrow Band Imaging™ (NBI™) technologies when connected to the EVIS X1 CV-1500 video system center.