

WISE VISION® Endoscopy Be20

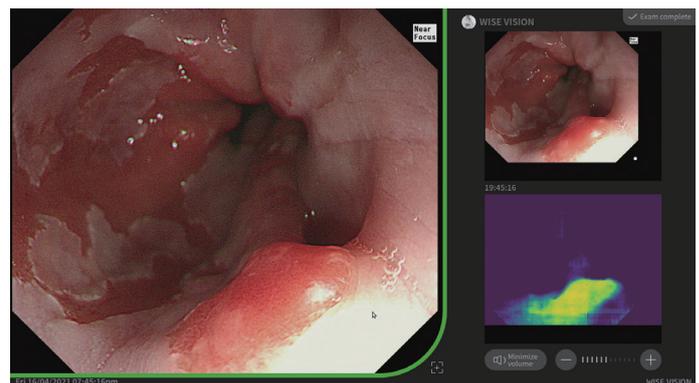
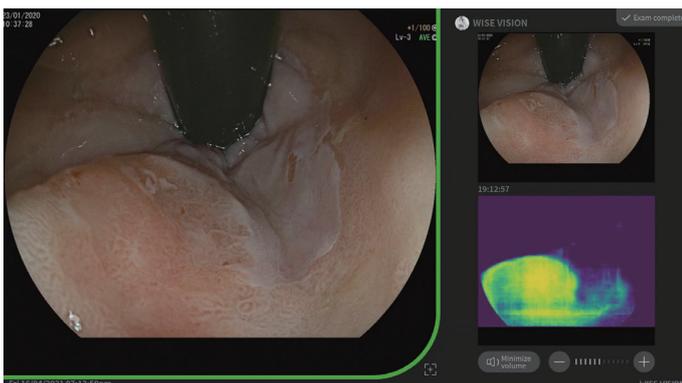
Clinical unmet needs in the screening/surveillance for Barrett's neoplasia

Barrett's oesophagus affects 375,000 people in the UK, who have a 0.5-3% yearly risk of progressing to oesophageal cancer.[1] This occurs in a step wise progression through low grade (LGD), high grade dysplasia (HGD) and intramucosal cancer (IMC). The identification and removal of these early lesions can prevent development of advanced cancer. For this reason, patients with Barrett's oesophagus undergo regular endoscopic surveillance to identify early changes.

Currently, the standard method for surveillance gastroscopy involves performing non-targeted mapping biopsies (Seattle protocol). These are required because only 13% of early neoplasia appears as macroscopically visible nodules on white light examination. The majority of neoplasia in Barrett's is difficult to visualise with standard white light to non-expert eyes.[2] The mapping biopsy protocol is an expensive and time consuming process, which is only performed in accordance to the guidelines by an estimated 30-51% of endoscopists.[3,4,5,6,7] This can result in missed neoplasia with studies suggesting that up to 40% of neoplasia can be missed with this strategy.[3] Therefore, whilst mapping biopsies are considered superior to non-systematic non-targeted biopsies [8,9,10], they are less than ideal.

Supports lesion detection by notifying Barrett's neoplasia during examination

WISE VISION® Endoscopy notifies potential Barrett's neoplasia. Notification sound, volume and colors can be freely customized at any time. The high-visualization user interface enables intuitive operation to ensure a stress-free examination procedure.

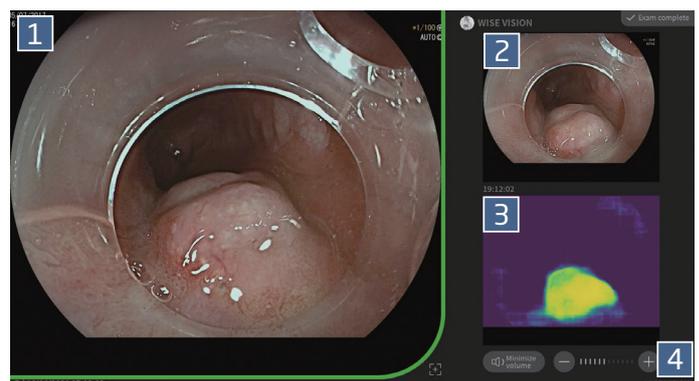


1 Image Analysis Field

2 Analysis History

3 Heat Map

4 Volume Adjustment

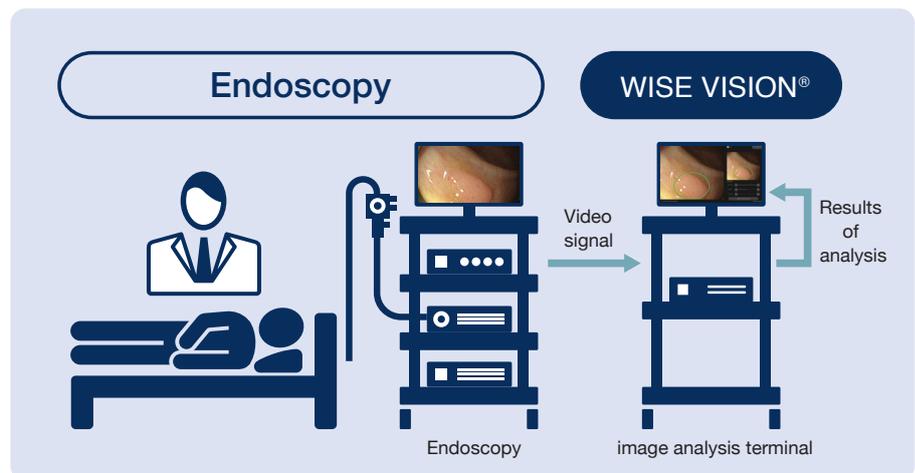


Connectable to the major endoscopies*

WISE VISION® Endoscopy can be connected to multi vendor*. Once the examination completes, simply disconnect the SDI cable. AI-supported colonoscopies can be performed in any endoscopy room in the hospital.

*Endoscope equipment used in combination with this application.

- OLYMPUS EVIS LUCERA ELITE Video System Center CV-290
- OLYMPUS EVIS EXERA III Video System Center CV-190
- FUJIFILM ELUXEO video processor VP-7000
- PENTAX Medical OPTIVISTA EPK-i7010 video processor
- PENTAX Medical OPTIVISTA EPK-i7000 video processor



Specifications

• Image Analysis Terminal

CPU	Intel Xeon W-2125
Memory	64 GB or more
Storage	512 GB or more on SSD
Graphic board	NVIDIA Quadro RTX5000 (2)
Capture board	Blackmagic Design DeckLink Mini Recorder (SDI input terminal)
Optical drive	DVD drive capable of reading DVD-R (Single/Dual layer)
Standard compatibility	Compatible with IEC 60950 or IEC 62368-1

• Monitor

Resolution	1920 × 1080
Color reproduction	Color display
Standard compatibility	Compatible with IEC 60950 or IEC 62368-1

• Speaker

Specifications	Any voice output device
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• Cable connecting the Image Analysis Terminal and Monitor

Specifications	Display Port cable
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• Cable connecting the Endoscopic Examination Device and Image Analysis Terminal

Specifications	HD-SDI or 3G-SDI cable
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The arrival of next-generation technology

WISE VISION®

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Product name: WISE VISION Endoscopy

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