

ENT IMAGING PLATFORM CV-170

HD-NBI for advanced ENT diagnosis



ADVANCING THE STANDARD: OFFICE-BASED VIDEO ENDOSCOPY WITH HDTV IMAGES.

HDTV

High-resolution HDTV images deliver sharp and clear details, boosting observation capabilities when viewing mucosal structures and other vessel patterns. The system's improved imaging with minimal halation and image noise effectively and efficiently supports diagnostics. This superior performance will take the potential of endoscopy to a new level.



NBI (Narrow Band Imaging)

NBI enhances the visibility of capillaries and other structures on the mucosal surface by using special illumination to optically contrast abnormal tissue against the surrounding healthy area. This advanced and unique visualisation technology potentially eliminates unnecessary biopsies and improves examination quality. The combination of NBI and HDTV is to facilitate optimal diagnosis and treatment.



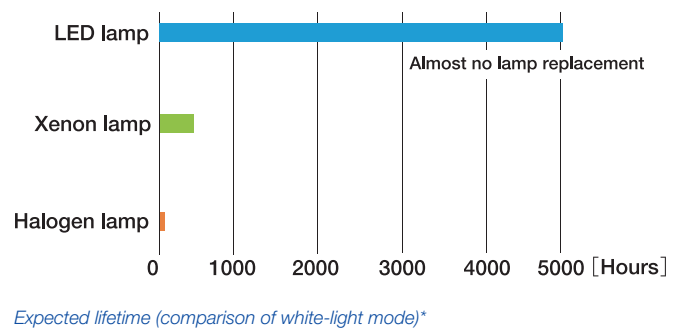
HDTV white light



HD-NBI

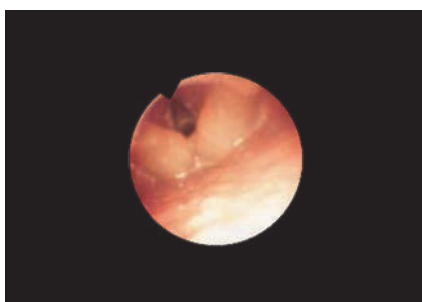
Compact design with LED technology

- The CV-170's all-in-one design condenses its performance into a compact and convenient size.
- The newly adopted long-life LED lamp minimises lamp replacement, and, as a result, maintenance is much easier. It generates virtually no heat, ensuring long hours of operation while reducing energy and noise.

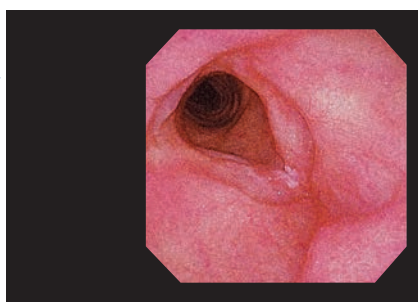


Evolution in ENT endoscopy

Olympus is a pioneer in the development of flexible endoscopes for the examination of the upper airways. Over time the fibrescope technology with a small image with low resolution and brightness advanced to chip-on-the-tip endoscopes that now include new HD video-chip technology, providing exceptionally clear and sharp endoscopic picture quality. The NBI special image enhancement technology provides even more information to support optimal diagnosis.



Picture 1: fibrescope



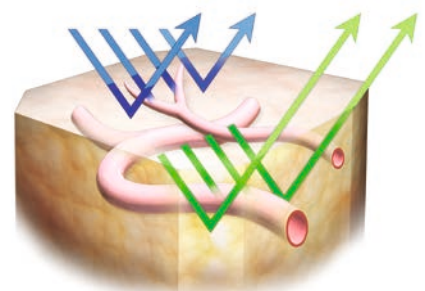
Picture 2: SD videoscope



Picture 3: HD videoscope

What is NBI?

NBI is an optical image enhancement technology that increases the visibility of vessels and other tissue on the mucosal surface. Narrow band illumination, which is strongly absorbed by haemoglobin and penetrates only the surface of tissue, is ideal for enhancing the contrast between the two. As a result, under narrow band illumination, capillaries on the mucosal surface are displayed in brown on the monitor, and veins in the submucosa are displayed in cyan.



* Source: Olympus R & D test result according to quality standard

Compatible with existing scopes

- Your current Olympus fibrescopes and rigid endoscopes are compatible with the CV-170 by connecting the camera head. This benefit will result in cost savings and greater usability with NBI.



Olympus fibrescope ENF-P4

Picture recording on portable memory

- Clinical pictures of suspicious tissue can be easily recorded and stored on the portable memory drive MAJ-1925.





Picture recording on portable USB memory

Specifications and technical data CV-170

Power supply	Voltage	100–240 V AC (NTSC)/220–240 V AC (PAL): within $\pm 10\%$
	Frequency	50/60 Hz: within ± 1 Hz
	Rated input	200 VA
Size	Dimensions	295 × 145 × 425 mm
	Weight	11 kg
Observation	Examination lamp	LED lamp
	Analogue HDTV signal output	Either RGB or YPbPr output can be selected.
	Analogue SDTV signal output	VBS composite, Y/C and RGB. Simultaneous outputs possible.
	Digital signal output	HD-SDI, SD-SDI and DVI can be selected.

Specifications ENF-VH / ENF-V3

Type		ENF-VH 	ENF-V3 
Optical system	Field of view	110°	90°
	Depth of field	5.0–50 mm	3.5–50 mm
Insertion tube	Distal end outer diameter	3.9 mm	2.6 mm
	Insertion tube outer diameter	3.6 mm	2.9 mm
	Working length	300 mm	300 mm
Bending section	Angulation range	Up 130°/Down 130°	Up 130°/Down 130°

Article number	Products	Description
E0497606	CV-170 + ENF-V3	Set with slim-diameter video endoscope ENF-V3
E0497607	CV-170 + ENF-VH	Set with HD video endoscope ENF-VH

Specifications, design and accessories are subject to change without any notice or obligation on the part of the manufacturer.