

**OLYMPUS**

Your Vision, Our Future

HD LAPAROSCOPE

# PURITY HIGH-DEFINITION OPTICS



# HIGH-DEFINITION OPTICS

## HD LAPAROSCOPE:



Olympus EXERA II – universal imaging platform  
utilising HDTV 1080i

### HIGH DEFINITION OPTICS – FOR A STRONG IMAGING CHAIN

A chain is as strong as the weakest link. The laparoscopic imaging chain ranges from the site of surgery to the image on the monitor. High definition imaging systems demand for a new type of laparoscope.

The Olympus EXERA II camera system is the first universal imaging platform using high definition imaging with 1080 scanning lines providing a four

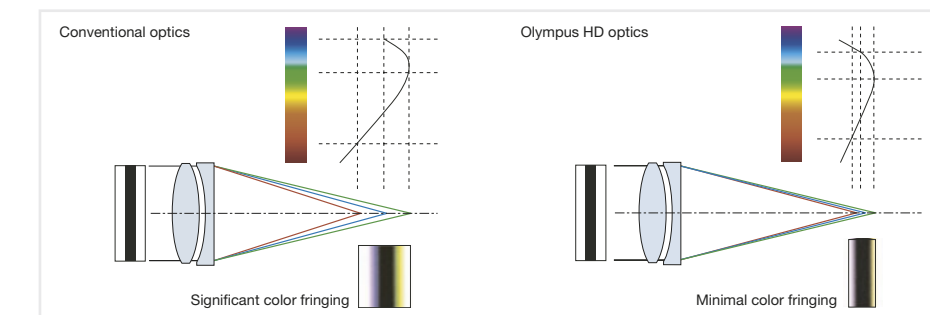
times higher resolution compared to PAL or NTSC standard. Using high-end camera systems with a conventional laparoscope would thus create a decisive bottleneck at the first link of the imaging chain. With a new technological approach, Olympus developed a unique HD optical system that brings contrast and color reproduction to a new level of purity.



### ENLIGHTENING SURGERY

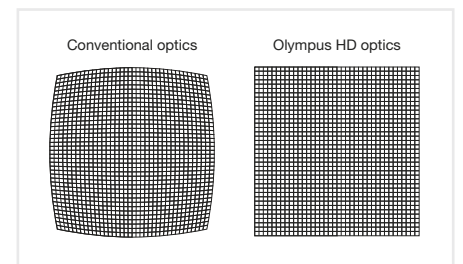
Sufficient and even distributed light is the source of all imaging. The Olympus HD laparoscope introduces a revolutionary tip design: Depending on the laparoscope's direction of view – 0°, 30° or 45° – the light-guide fibres are arranged for optimal illumination in up to three separate bundles.

## FOR BRILLIANT IMAGING



### OPTICAL PERFECTION

When you hold a prism to the sun, the white light is separated and rainbow colours are produced. The same effect occurs in a conventional laparoscope and makes the boundaries of a subject appear blurred – limiting resolution and contrast. The source of the so-called “color fringing” is chromatic aberration. For high-definition imaging the Olympus HD optical system reduces aberration to a minimum.



### DISTORTION FREE

The exclusive Olympus aspherical lenses ensure distortion-free imaging right into the corners.

FINITION

OPTICAL PERFECTION



HD Laparoscopes

Telescope,  
HD,  
10 mm,  
quick lock,  
autoclavable,  
WA53000A 0° direction of view  
WA53005A 30° direction of view  
WA53010A 45° direction of view

0° 30° 45°  
autoclave

Light-Guide Cable

WA03210A Light-guide cable,  
size M,  
plug type,  
3 m,  
CF type

Video System

Video system "CV-180"

**EVIS EXERA II**

N2638740 Camera head "OTV-S7ProH-HD-12Q",  
HDTV 1080i compatible,  
standard, angled,  
with three remote control switches,  
autoclavable,  
with integrated video adapter  
(quick-lock connector)

N2638640 Camera head "OTV-S7ProH-HD-12E",  
HDTV 1080i compatible,  
standard, angled,  
with three remote control switches,  
autoclavable,  
with integrated video adapter  
(clamping connector)

For details, see separate leaflet.

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