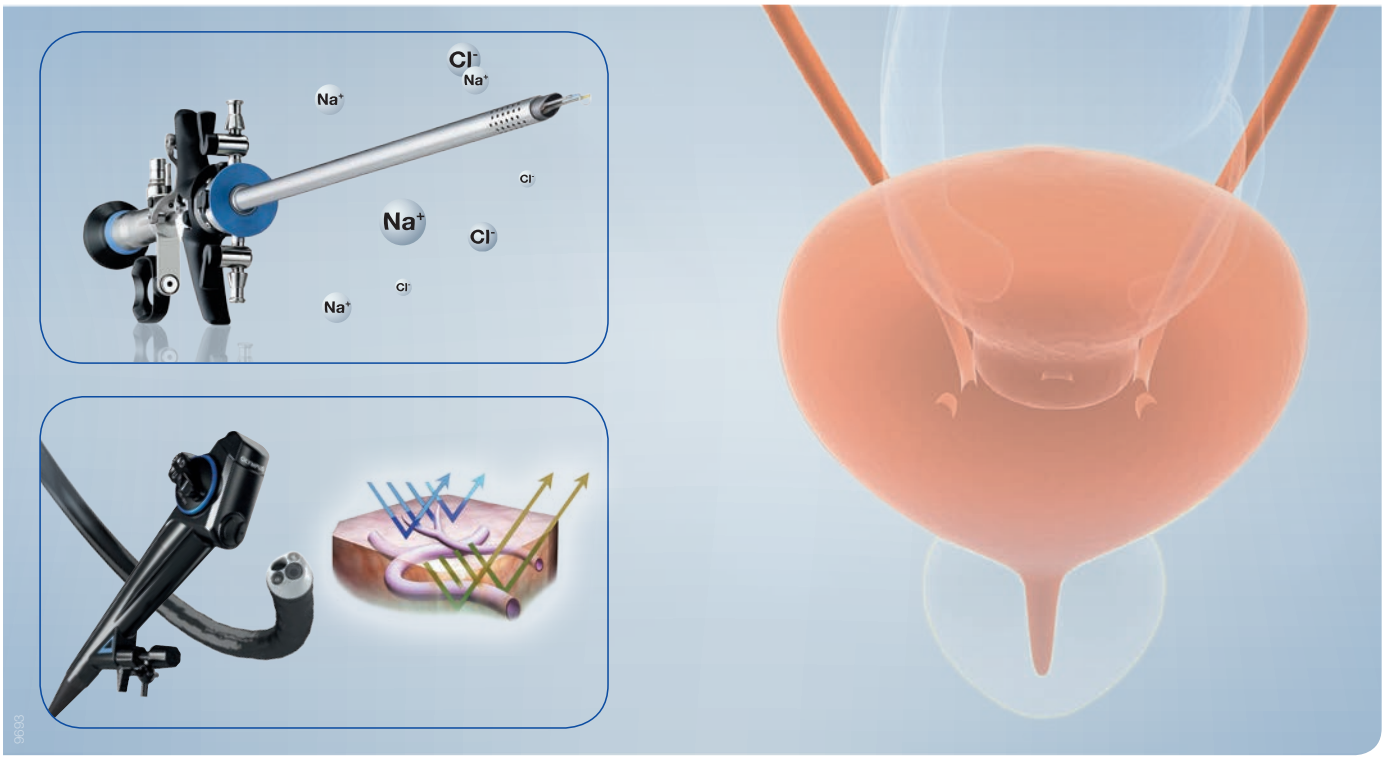
OLYMPUS

Your Vision, Our Future

BLADDER CANCER MANAGEMENT

Bipolar Resection and HD-NBI



NMIBC – DIAGNOSIS AND TREATMENT

The Challenge in NMIBC Management

Reviewing the literature, 50–70% of NMIBC patients suffer from recurrences after the initial treatment in the form of superficial tumors[1]. Missing small papillary tumors or CIS is an acknowledged risk and occurs at an estimated rate of 10–20%[2]. Superficial tumors of the mucosa are typically indicated by specific capillary and vessel structures. Identifying these structures – especially small tumors under white-light conditions – is possible but could be improved.

Where HD-NBI Is available:

· Rigid and flexible cystoscopy
· TUR-B resection
· Flexible ureteroscopy for upper tract tumor management

Images from a CYF-VH Flexible Cystoscope in HD and HD-NBI

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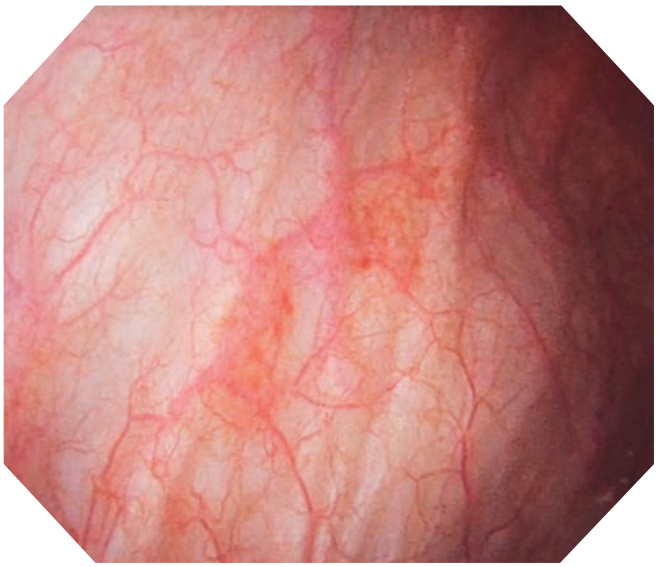

Excellent view of mucosal and vessel structures even with HDTV white light in flexible video cystoscopy

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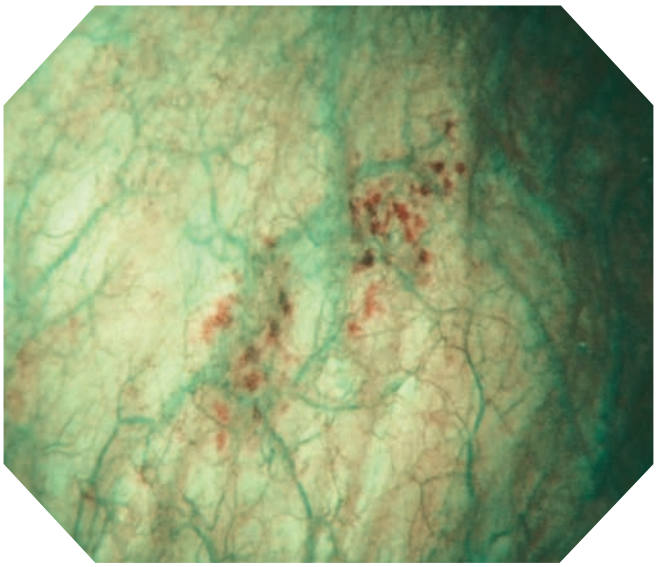


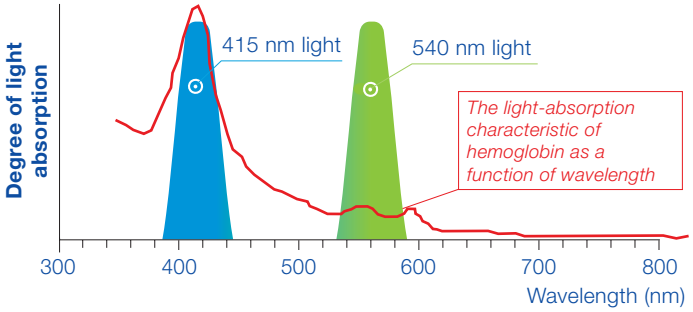
HD-NBI filters the white light and improves the visual contrast of mucosal and vessel structures

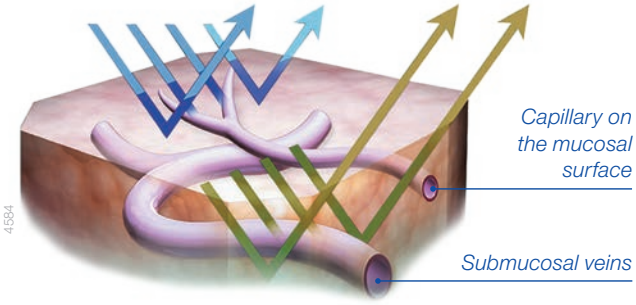
[1] *Sylvester et al., Intravesical bacillus Calmette-Guerin reduces the risk of progression in patients with superficial bladder cancer: a meta-analysis of the published results of randomized clinical trials, J Urol 2002; 168:1964–1970*

[2] *Jichlinski et al., Fluorescence cystoscopy in the management of bladder cancer: a help for the urologist!, Urol. Int. 2005; 74: 97–101*

What Is NBI?

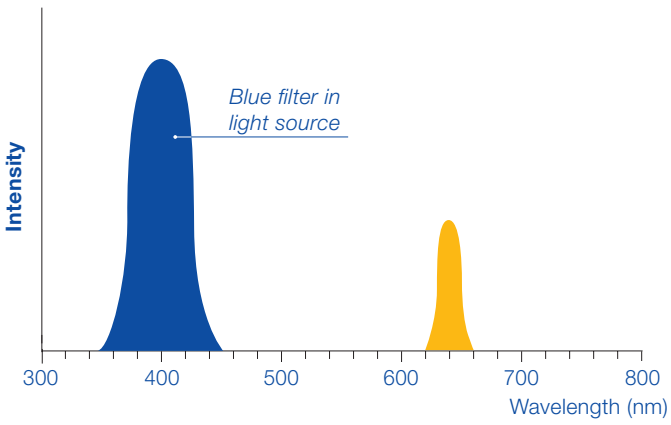
NBI is an optical image-enhancement technology that improves the visibility of vessels and other tissues on the mucosal surface. Narrow-band illumination, which is strongly absorbed by hemoglobin and penetrates only the surface of tissues, is ideal for enhancing the contrast between the two structures. 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.

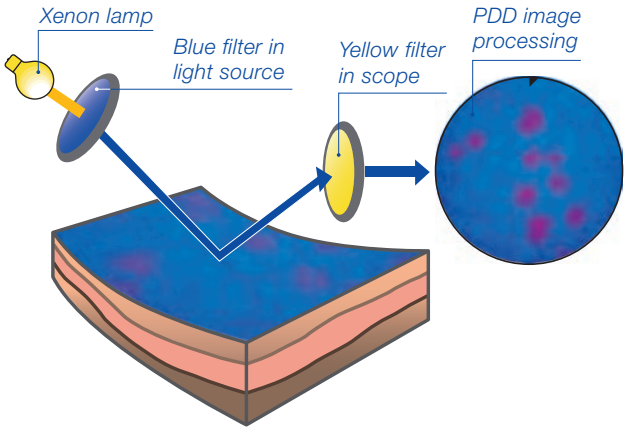




What Is PDD?

When a photosensitive marker has been introduced transurethrally into the bladder, the inner surface of the bladder absorbs the drug over a period of 90–120 minutes and converts it into an endogenous pigment. This pigment is then selectively deposited in a tumor and, under blue excitation light, will emit red fluorescence. Nevertheless, in this condition, a sufficient contrast of the red fluorescence against the blue background is hard to obtain because the red fluorescence is too weak compared with the blue light. To emphasize this fluorescence, a yellow filter exclusively designed for PDD is built into the scope. As a result, the red fluorescence can be observed with excellent contrast.





CYF-VH: THE WORLD'S FIRST FLEXIBLE HD-NBI CYSTO-NEPHRO VIDEOSCOPE

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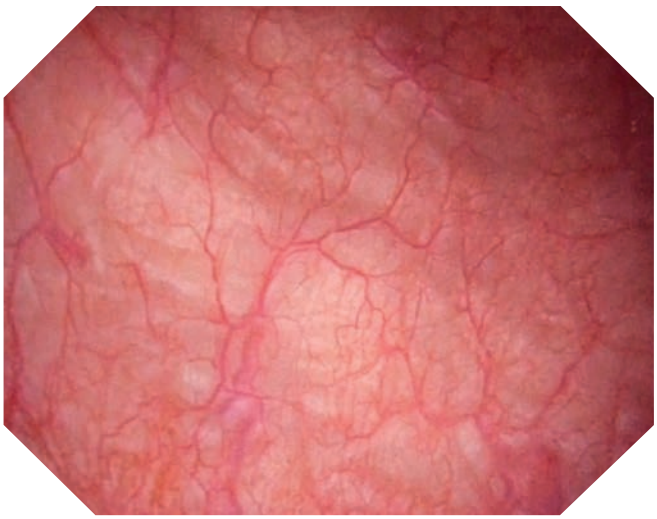
HD and Full-Screen-Capabilities – for the First Time Ever in Flexible Cystoscopy

- Increased light output (20% brighter) for advanced Narrow Band Imaging (NBI)
- Enhanced visibility of superficial capillary and mucosal vessel system
- Potentially higher and improved detection rate of carcinoma in situ



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A 20% brighter image improves the detection and diagnosis of suspicious tissue areas

HD-NBI: The Advanced Diagnostic Option in Bladder Cancer Follow-Up

- The combination of HD resolution and brighter NBI opens a new chapter in advanced bladder cancer follow-up diagnosis using flexible cystoscopy
- Higher tumor detection rate for HD-NBI (94.7%) vs. white light (79.2%)[1]

[1] *Cauberg et al., Narrow Band Imaging Cystoscopy Improves the Detection of Non-Muscle-Invasive Bladder Cancer, Urology 2010; 76:658–663*

HD-NBI FOR ACCURATE TUMOR RESECTION

Crystal Clear, Brilliant, and True to Life

· Details and colors are sharp and true to life

· Significantly improved color reproduction compared with previous generation

· Advanced option for HD resection of BPH and bladder cancer due to improved visibility of vessels on the mucosal surface

HD Camera Head with NBI – a Unique Combination for Bladder Cancer Resection

· Combination of HD and NBI delivers 20% brighter light compared to prior camera-head systems

· HD-NBI reduces the recurrence risk of NMIBC by at least 10% at one year[1]

Rigid Cystoscopy

· Durable all-stainless-steel design with maintenance-free stopcocks

· Gentle insertion due to smooth beak design

· Engineered and manufactured in Germany

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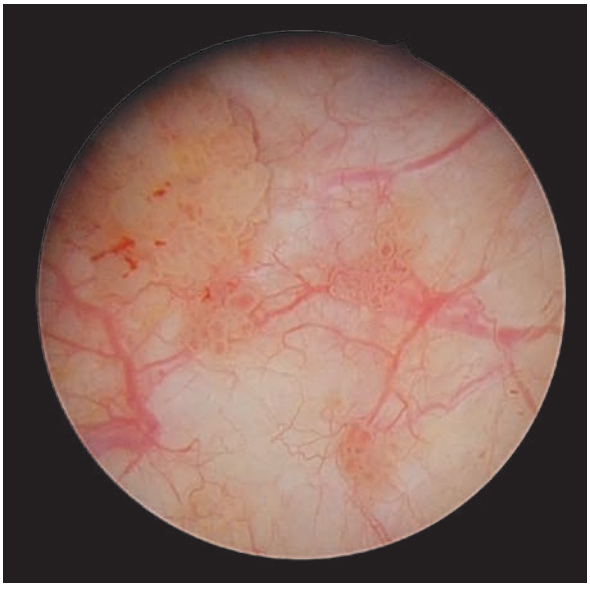

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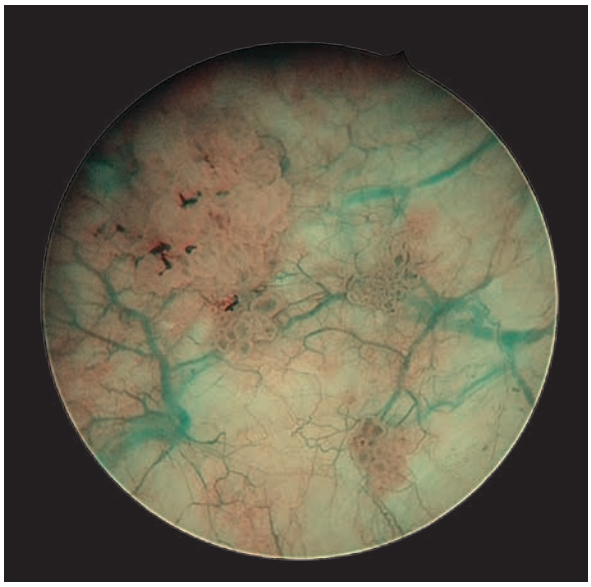
White light



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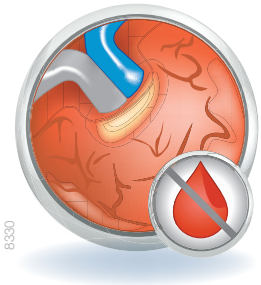
Visibility of vessels and mucosal surface improved by NBI

[1] *Naselli et al., A Randomized Prospective Trial to Assess the Impact of Transurethral Resection in Narrow Band Imaging Modality on Non–Muscle-Invasive Bladder Cancer Recurrence, European Urology 2012; 61:908–913*

TURis 2.0 BIPOLAR RESECTION

The Benefits of TURis 2.0



Safety[1]

- Reduced risk of TUR syndrome[2]
- Minimized stimulation of obturator nerve
- Extended operation times – way beyond monopolar
- Improved teaching options
- No need to reoperate

Bloodless

- Reduced perioperative blood loss due to safe bipolar hemostasis
- Plasma vaporization with the PlasmaButton provides continuous hemostasis[3]

Time Saving[4]

- Self-cleaning effect of loop wire through plasma activation
- Faster postoperative recovery
- Potentially decreased catheterization times

[1] *Puppo P, et al. Bipolar transurethral resection in saline (TURis): outcome and complication rates after the first 1000 cases. J Endourol. 2009 Jul; 23(7):1145–1149*

[2] *Michielsen DP, et al. Bipolar transurethral resection in saline – an alternative surgical treatment for bladder outlet obstruction? J Urol. 2007 Nov; 178(5):2035–2039*

[3] *Geavlete B, et al. Continuous vs conventional bipolar plasma vaporisation of the prostate and standard monopolar resection: a prospective, randomised comparison of a new technological advance. Volume 113, Issue 2, pages 288–295, February 2014*

[4] *Fagerström T, et al. Complications and clinical outcome 18 months after bipolar and monopolar transurethral resection of the prostate. J Endourol. 2011 Jun; 25(6):1043–1049*

NMIBC MANAGEMENT PLATFORM

VISERA ELITE Imaging Platform

· Patented HD-NBI filter

· Increase in brightness by 20% compared with the previous generation for optimized imaging

ESG-400 – Intelligent HF Technologies

The award-winning OES Pro resectoscopes and the established range of TURis electrodes can now be powered by the latest-generation universal HF generator – the ESG-400.

· Automated saline detection to ensure a safe procedure

· Leakage-protection sensor to permanently ensure the highest degree of safety for the user and patient

· High Power Cut Support (HPCS) – optimizing resection in saline

· Fast Spark Monitor (FSM) – constant cutting quality

· Large, illuminated touch-screen panel

· Three effect options – control the coagulation zone

VISERA ELITE PORTFOLIO OVERVIEW

Rigid Cystoscope

A20919A	17 Fr. compact cystoscope	 9641
A22003A **A20972A** **A20934A** **O0122**	Therapeutic cystoscope	 9644
A3764A **A37014A** **A37028A** **A37009A**	9.5 Fr. optical urethrotome	 9643
A22002A **A20713A** **A20913A**	Rigid optical forceps	 9642
A22001A **WA22366A** **A22041A** **A22021A**	SurgMaster – TURis for resection in saline	 9640

TURis Electrodes

WA22557C	PlasmaButton, 12° and 30° for plasma vaporization	 9620
WA22302D	Loop, 12°, medium	 9616
WA22558C	Angled loop, 12° and 30° for TUEB (transurethral enucleation)	 9619

Flexible Videoscopes

N3828460	CYF-VH – cysto-nephro videoscope
N3828560	CYF-VHA – cysto-nephro videoscope with aspiration
N3828660	CYF-VHR – cysto-nephro videoscope with backward angulation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Camera Head

N4488560	CH-S190-08-LB – HD urology ultralight camera head	 9630
N2487040	OTV-S7ProH-FD – PDD camera head	 9615

Video Processor and Light Source

N3643860	VISERA ELITE – OTV-S190 video processor	 9631
N3643950	VISERA ELITE – CLV-S190 light source	 9635

Video Processor

WB91051W	HF unit ESG-400	 9617

Monitor

N3629160	OEV261H – Olympus high-definition LCD monitor, 26"	 9636

Insufflator

N3829670	UHI-4 – insufflator	 9634

Full-HD Recording Platform

N3808460	IMH-10 – Blu-ray and HDD recording platform	 9637
N3808560	IMH-20 – Blu-ray and HDD recording platform	 9638

Trolley

K10021613	VISERA ELITE – WM-NP2 mobile workstation	 9621

OLYMPUS

OLYMPUS EUROPA SE & CO. KG
Postbox 10 49 08, 20034 Hamburg, Germany
Wendenstrasse 14–18, 20097 Hamburg, Germany
Phone: +49 40 23773-0, Fax: +49 40 237765
www.olympus-europa.com

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