OLYMPUS

Your Vision, Our Future

# VIDEOSCOPE
# ENF-VH / ENF-V3

**HD Clarity or a Slim 2.6 mm Distal End: Two Scopes Cover Most Examination Needs**


6038

# RHINO-LARYNGO VIDEOSCOP

**Pushing the Envelope of High Definition and Seeking Ever Greater Detail Olympus Offers Two New Solutions.**


**ENF-VH**

*Rhino-laryngo videoscope*


**ENF-V3**

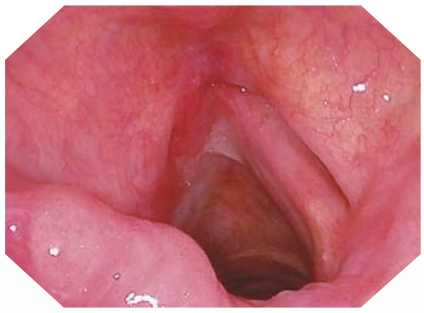
*Rhino-laryngo videoscope*

Olympus leads the world in endoscopes. We always listen carefully to physicians and specialists on the medical front lines. Over and over, they have made two comments that particularly resonated with us. “We want to make every diagnosis more accurate.” And “We want smoother treatments for our patients.” We drew upon our decades of endoscope expertise and combined it with Olympus proprietary optics technology. Now we can offer two new solutions: ENF-VH, with HD high definition, and ENF-V3, which maintains high image quality while reducing the distal end outer diameter to a mere 2.6 mm. With these two new products, Olympus offers a new examination environment for rhino-laryngo videoscopes.

# ASTOUNDING IMAGE QUALITY

## HD

With advances in CCD technology, ENF-VH delivers HD images, which show even greater detail for examinations.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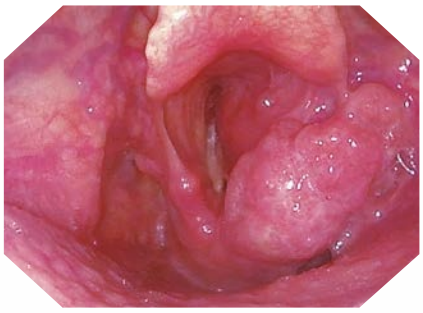
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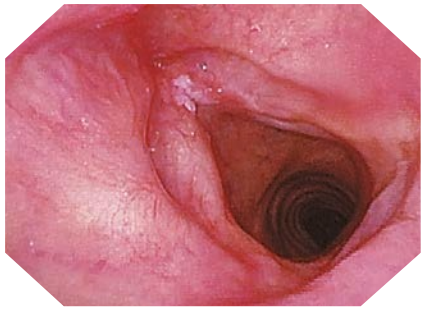
## Surprisingly Slim Diameter

**Ø 2.6 mm**

The distal end of the ENF-V3 scope is only 2.6 mm in diameter. Also, the difference between diameters of the distal end and the insertion tube is minimal. This makes insertion into tight nasal passages much easier. And with the CCD chip`s improvement, even this slim scope delivers exceptional image quality.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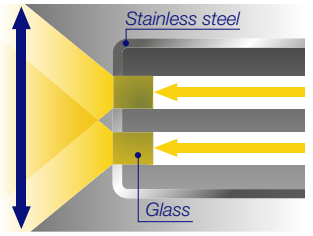
# PROPRIETARY OLYMPUS TECHNOLOGY

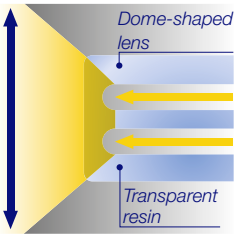
## Proprietary Olympus Technology Improves Exam Capabilities and Simplifies Operation

### Exceptional Luminosity

Although it has a small diameter, the scope still illuminates a broad area, providing a detailed image of any lesions within the field of view. This exceptional luminosity is especially useful when observing with NBI.




*Conventional scope (ENF-V2)*




*ENF-VH/V3*

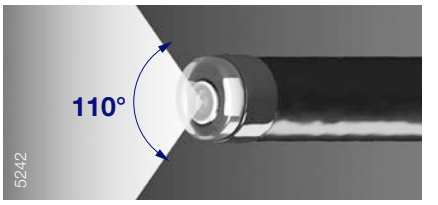

*Dome-shaped transparent resin on the tip helps achieve wider light diffusion.*

*Light*

*Light diffusion area*

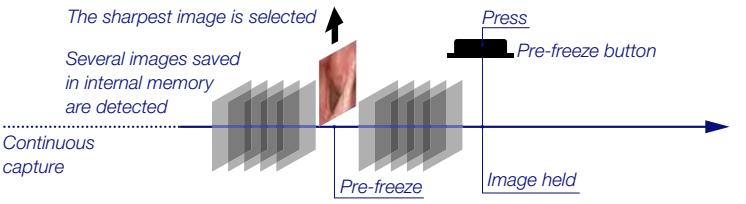
### Wide Field of View

The ENF-VH has a viewing angle of 110°. And with HD resolution and exceptional illumination, every corner of the field can be thoroughly inspected.




### Pre-Freeze-Function

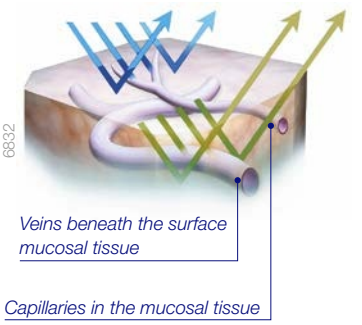
The scope continuously captures still images even before you push the Pre-freeze button. When you press the button, the system automatically selects the sharpest image among several.

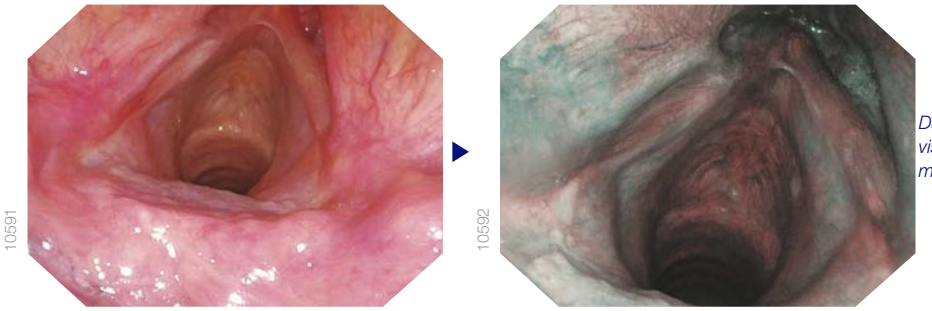


# RHINO-LARYNGO VIDEOSCOP: ENF-VH / ENF-V3

### NBI (Narrow Band Imaging)

NBI is an optical imaging technology that enhances the visibility of vessels and other structures on or near the mucosal surface. The gastrointestinal tract is mainly composed of blood vessels and mucosa; narrow band imaging, which is strongly absorbed by hemoglobin and penetrates only the surface of tissues, is ideal for enhancing the contrast between the two. As a result, under narrow band imaging, capillaries on the mucosal surface are displayed in brown and veins in the submucosa are displayed in cyan on the monitor.

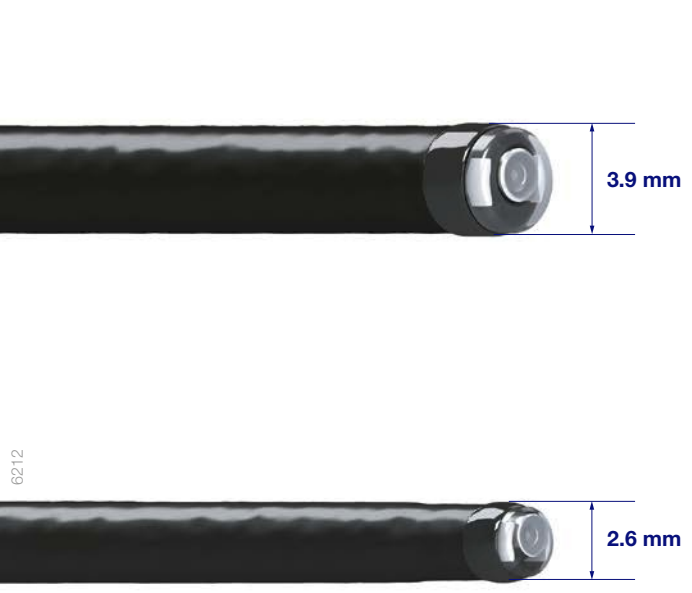


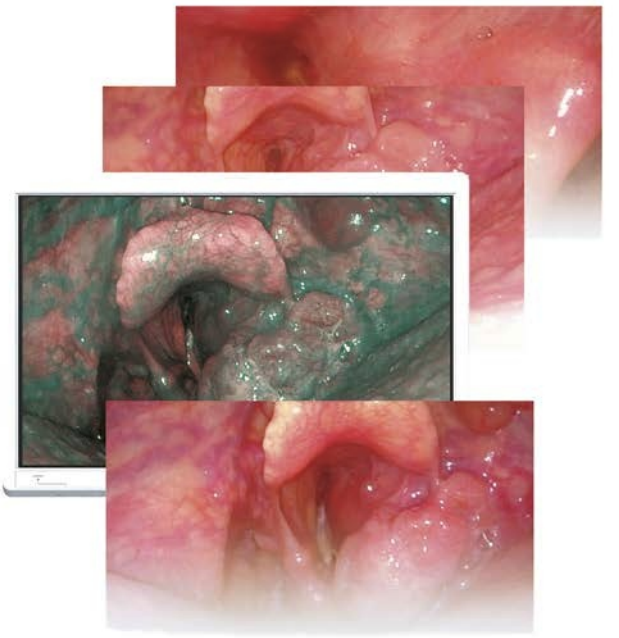




*White Light* *NBI*

*During endoscopic observation, NBI enhances visualization of the capillary network and mucosal morphology.*

Allows NBI examination when used with a video system that is NBI compatible.



**ENF-VH, for More DetailedImages Achieved by HD**

- HD
- Wide angle
- Exceptional illumination field
- Pre-freeze-Function

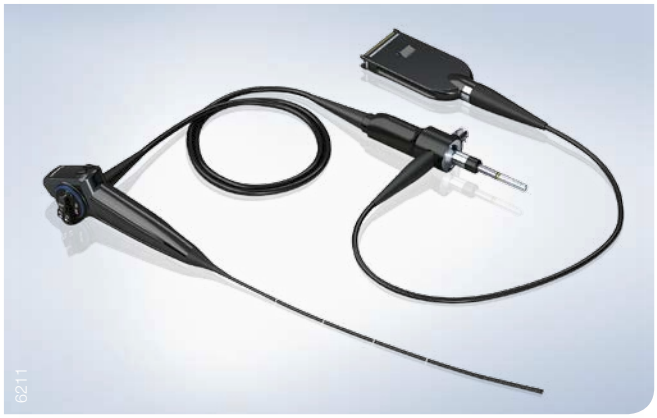
**ENF-V3, Crisp, High-Resolution Images with a Distal End Diameter of Only 2.6 mm**

- Distal end outer diameter 2.6 mm
- High image quality
- Exceptional illumination field
- Pre-freeze-Function

# ENF-VH
# ENF-V3

## Specifications

| 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 | |
| Bending Section | Angulation range | Up 130° / Down 130° | |
| Total Length | | 510 mm | |
| Number of Remote Switch | | 4 | |
| NBI | | Available | |
| Stroboscopic Light Source | | Available | |




*ENF-VH*


*ENF-V3*

## VISERA Elite System


### OTV-S190

Video Processor

HDTV video processor


### CLV-S190

Xenon Light Source

Light source to drive HDTV and NBI


### IMH-20

Image Management Hub

Two-channel full HD recorder

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