

HD Digital Stroboscopy and Endoscopy Solutions

Clinically relevant innovation combined with imaging excellence

PENTAX
MEDICAL



Focused on addressing the needs of ENT and Voice professionals

The PENTAX Medical high-definition stroboscopy and endoscopy solutions are engineered with advanced features, which can help identify tissue anomalies and may improve detection of subtle pathology.

HD quality and image enhancement

High-definition video recording and i-SCAN technology provides sharp and clear visualization of structures and details.

- **Six times** the image detail of standard-definition video may assist in detection of subtle pathology
- Choose between rigid or flexible endoscopes to support various exam protocols
- i-SCAN image enhancement technology, which can aid in visualization of pathology edges and vascularity, can be used with both stroboscopic and endoscopic exams

Exceptional stroboscopic performance

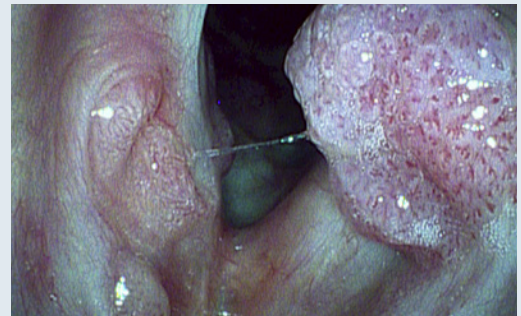
For laryngologists, the PENTAX Medical Laryngeal Strobe provides bright and clear stroboscopic video exams to support reliable analysis of vocal fold structure and motion.

- Features the PENTAX Medical anti-blinking technology, resulting in razor-sharp and in-focus images of the vibrating vocal folds
- Brilliant and evenly distributed illumination throughout the patient's pitch and intensity range
- Accurate pitch tracking with semi-instant lock-on, and automatic light control contribute to quicker examinations

Clinically relevant advancements

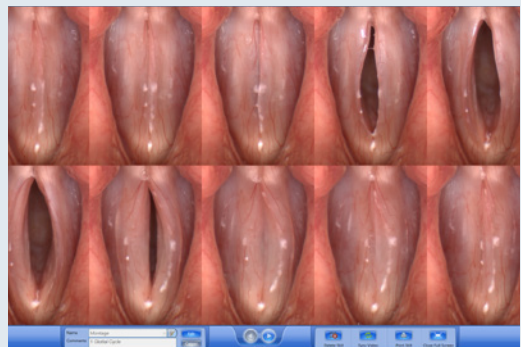
Designed with features you need for optimal exam viewing, specifically engineered for ENT and Voice specialists.

- Slow-motion and frame-by-frame playback provides additional insight into vocal fold movement
- Flexible zoom function allows panning and zooming of paused exam frames as well as video playback from a zoomed-in position
- Simple one-step montage of a glottal cycle facilitates assessment of parameters, such as closure, symmetry, and amplitude
- Side-by-side display of two exams enables pre- and post-intervention image comparison



i-SCAN™ Image Enhancement Technology

Available in the DEFINA Platform, i-SCAN image enhancement technology offers three customizable modes — i-SCAN 1, 2, and 3 — that enhance image topography, edges, and colour tone to assist in the visualization of blood vessels and the mucosal surface.



Stroboscopy system image montage function

A complete solution designed for clinical efficiency

HD video processor

DEFINA EPK-3000



The DEFINA system for ENT is an **advanced HD platform with enhanced imaging for endoscopic assessment and therapy**.

Video nasolaryngoscopes

J10 SERIES



VNL-J 10 series are the optimal choice for advanced imaging and therapy. The design allows you to use the endoscopes in a variety of applications like video stroboscopy and treatment of lesions.

Laryngeal Strobe

Model 9400



The Laryngeal Strobe provides the bright, clear, razor-sharp images needed for reliable analysis of vocal fold structure and motion.

Stroboscopy and endoscopy options

Recognizing the diverse needs of our customers, various configurations are available to satisfy your budget and requirements.

| Feature/Function | DEFINA HD Endoscopy | HD Digital Strobe | DEFINA HD Digital Strobe |
|--|---|---|---|
| HD resolution | • | •* | • |
| Assess laryngeal/pharyngeal structures | • | • | • |
| Assess vocal fold vibration | | • | • |
| True strobe light source | | • | • |
| Transoral exam (rigid scope) | | • | • |
| Transnasal exam (flexible scope) | • | | • |
| i-SCAN | • | | • |
| Choose if you desire: | Image of laryngeal/pharyngeal structures during speech and use of image enhancement | Highest-quality image of vocal fold vibration; no need to use flexible scopes | Highest-quality image of vocal fold vibration with rigid and flexible scopes and use of image enhancement |

*With rigid scope

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Excellence in Focus

i-SCAN and OE image enhancement technologies are intended to be used as an optional adjunct following traditional white light endoscopy and is not intended to replace histopathological sampling. i-SCAN and OE are compatible with PENTAX Medical video gastrointestinal endoscopes. Copyright 2016. All Rights Reserved. All company and product names and marks contained within are federally registered trademarks, trademarks or service marks of PENTAX of America, Inc. Product specifications are subject to change without notice, and without any obligation on the part of the manufacturer.

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