



# Leading-edge **video** **endoscopy** for ENT.

Flexible video endoscopes and  
Naso-Pharyngo-Laryngoscopes.

The PENTAX Medical VNL product range offers a complete solution for advanced endoscopy needs. The excellent image quality and i-scan technology will support both diagnostic and therapeutic procedures. Flexible video endoscopy will enable functional stroboscopy as well as FEES examinations in a patient-friendly manner. Our broad range of high-quality ENT scopes includes fibreoptic scopes, high-resolution videoscopes and a video transnasal esophagoscope.

# State-of-the-art high resolution image technology supporting diagnosis and therapy.

### Maximum flexibility

With the wide product range of flexible video endoscopes anatomic regions and physiological function can be observed far more effectively than with rigid endoscopes. Full assessments of the nasal, oropharyngeal, laryngeal and even esophageal structures are possible. All video endoscopes require a video processor and have a bifurcated light cable for optional use with a KayPENTAX stroboscopy system.



### No compromise in image quality

Latest high definition and high resolution chip technology offer the sharpest images. The powerful light source of the PENTAX EPK-i5000 provides excellent illumination and the state-of-the-art i-scan processing technology delivers superb image enhancement capabilities.



### BROAD FIELD OF APPLICATION

Flexible video endoscopy allows the evaluation of physiological function for a diverse range of activities (e.g. speech, swallowing, singing, even playing a musical instrument). Transnasal approach allows an unlimited view of the oropharyngeal and laryngeal cavity. With the exclusively designed esophagoscope TNO examinations can be performed to look beyond the ENT borders.

### HIGH-RESOLUTION VIDEO ENDOSCOPES

Product	Insertion tube [ø mm]	Distal end [ø mm]	Instrument channel [ø mm]	Working length [mm]	Field of view [°]	Tip deflection up/down [°]	Tip deflection right/left [°]	Remarks
<b>Naso-Pharyngo-Laryngoscopes</b>								
Slim VNL-1190STK	3.7	4.1	-/-	300	80	130/130	-/-	-
Routine VNL-1590STi	5.1	5.6	-/-	300	100	130/130	-/-	HD+
Slim VNL-1070STK	3.3	2.9	-/-	300	85	130/130	-/-	-
Routine VNL-1570STK	4.9	4.9	2.0	300	85	130/130	-/-	-
<b>Esophago-Video-Endoscope</b>								
EE-1580K	5.1	-	2.0	600	140	210/120	-/-	-

HD+ > High-Definition





# Advanced fibre endoscopy for ENT.

Flexible fibreoptic endoscopes and  
Naso-Pharyngo-Laryngoscopes.

The PENTAX Medical FNL product range offers a diverse range of conventional and portable fibreoptic scopes for high quality and cost effective endoscopic ENT examinations.

# Optical instruments of the highest quality to support diagnosis and therapy.

### Maximum flexibility

The wide product range of flexible fibreoptic endoscopes can access places that cannot be reached with a rigid endoscope. PENTAX Medical fibreoptic endoscope design allows light source and video camera versatility to provide compatibility with a variety of different medical devices. Maximum mobility can be achieved by an LED battery powered cordless solution.

### Broad field of application

The FNL product range offers a paediatric model, routine endoscopy models and a therapeutic model with a 2.2mm working channel. Both diagnostic and therapeutic procedures are within reach with the PENTAX Medical fibreoptic endoscopes. Optical instruments of the highest quality to support diagnosis and therapy.



## HIGH-QUALITY FIBREOPTIC ENDOSCOPES

Product	Insertion tube [ø mm]	Distal end [ø mm]	Instrument channel [ø mm]	Working length [mm]	Field of view [°]	Tip deflection up/down [°]	Tip deflection right/left [°]	Remarks
<b>Naso-Pharyngo-Laryngoscopes</b>								
Slim								
FNL-7RP3	2.4	2.2	-/-	300	75	130/130	-/-	-
Routine								
FNL-10RP3	3.5	3.2	-/-	300	75	130/130	-/-	-
FNL-10RBS	3.5	3.2	-/-	300	85	130/130	-/-	portable
Therapeutic								
FNL-15RP3	4.9	4.8	2.2	300	75	130/130	-/-	-