PENTAX Medical HD+ Platform

State-of-the-art image quality in video bronchoscopy

In the interest of technical progress, specifications may change without notice.
The answer to every need

**EPK-i5000 Processor:** From routine applications to challenging examinations

The EPK-i5000 HD+ video processor provides excellent endoscopic imaging. It combines:

- Exceptionally high illumination
- Excellent endoscopic imaging through HD+ resolution
- Advanced i-scan image processing technology

**PENTAX Medical HD+ Bronchoscopes:** Take the lead

Outstanding High-Definition HD+ images set the standard in bronchoscopy. The CCD chip and the excellent illumination enable:

- Support in fast orientation and detection
- Significant improvement in visibility and evaluation of anatomical details of the bronchial mucosa, e.g. longitudinal elastic bands and mucosal glands
- Detailed inspection of irregular surface structures

**i-scan technology:** Your diagnostic support

i-scan technology supports the precise detection and characterisation of bronchial lesions by accentuating the mucosal structure – at the touch of a button:

- i-scan 1 retains natural colour tones of the bronchial mucosa and highlights mucosal surface structures which can be used for the detection of epithelial changes. No compromises: It can be kept on during the entire examination.
- i-scan 2 accentuates mucosal structures and vascular patterns. It shows clearer endoscopic outlines and margins of bronchial lesions. These details are helpful to demarcate and characterise bronchial lesions and cancer types.
- i-scan 3 further enhances visibility of the vessel pattern and helps in the localisation of safe biopsy sites.

**STERRAD® compatibility:** Fulfills high reprocessing expectations

The STERRAD® compatible bronchoscopes meet high reprocessing demands due to:

- New material for endoscope components
- More frequent use thanks to short sterilization time
- Newly designed model plates differentiate from non-compatible endoscopes

**Manufacturer’s premium service**

**We keep your endoscope in the best condition**

A special sensibility regarding reprocessing is needed because of the rising occurrence of nosocomial infections and of resistant pathogens. To meet your sterilization requirements, we developed the STERRAD® compatible bronchoscopes. After a long period of research and testing, we are now using materials compatible with STERRAD® 50, 100S and NX.

PENTAX Medical bronchoscopes are capable of withstanding the wear and tear of STERRAD® sterilization up to 100 cycles. After 100 examinations the bronchoscopes should be returned to the PENTAX Medical service facility for inspection and component replacement.

A premium service concept has been designed to offer you a smooth process to keep your scope at the best performance.

- Our cycle counter simplifies replacement process planning
- During servicing we will provide you with loaner bronchoscopes
- We provide an efficient maintenance procedure with renowned premium PENTAX Medical service quality

**Specifications**

**Video Bronchoscopes EB-1990i / EB-1575K / EB-1975K**

<table>
<thead>
<tr>
<th>Product</th>
<th>Insertion tube [ø mm]</th>
<th>Distal end [ø mm]</th>
<th>Instrument channel [ø mm]</th>
<th>Working length [mm]</th>
<th>Field of view [°]</th>
<th>Tip deflection up/down [°]</th>
<th>Dept of field</th>
</tr>
</thead>
<tbody>
<tr>
<td>EB-1990i*</td>
<td>6.4</td>
<td>6.6</td>
<td>1.2</td>
<td>600</td>
<td>120</td>
<td>180/130</td>
<td>3-50</td>
</tr>
<tr>
<td>EB-1575K</td>
<td>5.2</td>
<td>5.5</td>
<td>2.0</td>
<td>600</td>
<td>120</td>
<td>210/130</td>
<td>3-50</td>
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<tr>
<td>EB-1975K</td>
<td>6.4</td>
<td>6.3</td>
<td>2.8</td>
<td>600</td>
<td>120</td>
<td>180/130</td>
<td>3-50</td>
</tr>
</tbody>
</table>

*HD+ Image

**EPK-i5000 Video Processor**

<table>
<thead>
<tr>
<th>HD+ video outputs*</th>
<th>DVI, VGA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard video outputs</td>
<td>RGB, Y/C, composite</td>
</tr>
<tr>
<td>User interface</td>
<td>Control panel, keyboard</td>
</tr>
<tr>
<td>i-scan virtual chromoendoscopy</td>
<td>Quick access via i-scan keys 1, 2, 3</td>
</tr>
<tr>
<td>Light source</td>
<td>300W Xenon</td>
</tr>
<tr>
<td>Dimensions (W x H x D / weight)</td>
<td>405 x 205 x 485 mm / 22.0 kg</td>
</tr>
</tbody>
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*HD+ image quality in conjunction with 90i endoscopes