DEFINA Solution
EPK-3000 Video Processor
Enter the world of HD endoscopy with flexible solutions for your clinical practice.
HD endoscopy technology that offers you a choice.

The High-Definition DEFINA EPK-3000 video processor provides a flexible platform that allows you to select the level of technology that meets your clinical and financial needs. The DEFINA HD solution offers the same high-quality HD imaging to all specialties, whether gastrointestinal, EUS, respiratory or ENT. In addition, you have the choice of whether to include our i-scan image enhancement software, both now and in the future.

If you are planning to upgrade from standard definition to High-Definition endoscopy with a choice to explore the benefits of image enhancement technology, the DEFINA EPK-3000 video processor offers the flexibility to create the optimal endoscopy system for your facility.
DEFINA – optimize your daily clinical practice with the High-Definition EPK-3000 video processor.

The High-Definition DEFINA system offers a high-quality HD image to support the day-to-day diagnostic and therapeutic needs of a modern endoscopic facility.

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1. **Excellent visualization**
   Brilliant, **High-Definition** images with **xenon light** for a clear and more detailed visualization of the mucosal structures.
   Dynamic range expansion provides excellent illumination to improve **far-field visualization**.

2. **Flexible platform**
   Designed as a multi-purpose platform, DEFINA supports varying specialties such as GI, EUS, Pulmonology and ENT, optimizing a hospital’s investment and workflow.

3. **Upgradeable capabilities**
   The High-Definition image can be enhanced with **i-scan technology** to support detection, demarcation, and characterization.
Excellent visualization

**High-Definition image**

An HD image with excellent illumination of xenon light ensures better visualization during daily procedures.

ESGE suggests the routine use of High-Definition white-light endoscopy systems for detecting colorectal neoplasia in average risk populations.1)

The High-Definition DEFINA system has the potential to merge sharp and clear image quality with i-scan technology for fast detection and precise demarcation to support characterization and patient treatment.


**Dynamic range expansion**

Dynamic range expansion is a software enhancement that provides improved far-field visualization. When trying to image a distal lumen and a proximal view is impossible, this feature is invaluable.

**Flexible platform**

Designed as a multi-purpose platform, DEFINA supports varied specialties such as GI, EUS, Pulmonology, and ENT, for the optimization of a hospital’s investment and workflow.
Upgradable capabilities

A system that offers a choice

The DEFINA solution gives you the choice of a light version or the full version with i-scan. The light version of DEFINA can be always upgraded with a separate kit, available to enhance your diagnostic capabilities with i-scan.

DEFINA Solutions

DEFINA EPK-3000

Light version with upgradable capabilities

Full version with i-scan

With its user-friendly interface, compact size, and ease-of-operation, this is the economically efficient endoscopy diagnostic solution for a smaller budget: the light version of DEFINA.

With its excellent price performance ratio, the full version of DEFINA with i-scan is the ideal video processor with which to enter the world of High-Definition and i-scan for an enhanced diagnosis.

Upgrading made easy

We are pleased to offer you an easy and fast way to upgrade your DEFINA system. Once you have made the decision to further enhance your optical diagnosis with i-scan, please contact your PENTAX Medical representative for ordering information on the i-scan upgrading kit.
**Advanced Solutions**

The DEFINA EPK-3000 is a versatile endoscopic solution, offering the unique ability to upgrade the system from the light version of DEFINA to DEFINA with i-scan. The upgrade allows you to enter the world of High-Definition enhanced with i-scan to ensure optimized diagnosis results.

**Enhance your clinical outcomes with i-scan**

i-scan is a digital image enhancement endoscopy technology and a virtual endoscopy tool. Easily operated with just the touch of a button, it offers rapid imaging results and real-time processing. Based on proven clinical studies and feedback from key industry opinion leaders, the HD imaging combined with i-scan technology offers significant advantages: it improves the ability to detect, characterize, and demarcate suspicious lesions in the lower and upper GI, and helps to provide targeted intervention at an early stage.

**Tailor your i-scan setting to your clinical needs**

- **SE** enhances the light/dark contrast, which in turn enhances the structure through recognition of the edges.
- **TE** alternates discrete parts of light spectrum components (red, green, blue) of a normal image and enhances minute mucosal structures and subtle changes in color.
- **CE** adds the color blue in relatively dark areas (to the edges) by obtaining luminance intensity.

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**i-scan supporting the diagnostic pathway**

- **i-scan 1 (SE) – detection**
- **i-scan 2 (TE) – characterization**
- **i-scan 3 (CE) – demarcation**
Technology with proven results

Clinical studies have already shown that i-scan technology can significantly improve:

- **Adenoma detection rate (ADR),** especially of **colon polyps located in the right colon,** namely the flat and depressed adenoma and serrated polyps.¹ ²
- **i-scan supports better prediction of inflammatory bowel disease (IBD).**³
- **In gastroesophageal reflux disease (GERD)** i-scan is able to detect minimal changes and accurately characterize the identified lesions (inflammation vs. neoplasia) during ongoing endoscopy.⁴
- **In Barrets’ oesophagus,** i-scan improves dysplasia detection, which is superior to random biopsies.⁵

¹ Neumann et al. Virtual Chromoendoscopy With I-SCAN Improves the Detection of Right Sided Colon Adenomas in Comparison to

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**i-scan website**

Enter the i-scan world and exchange and expand your i-scan knowledge

Enroll in the i-scan platform and...
- get exclusive i-scan content
- attend i-scan webinars presented by experts
- expand your i-scan learning with online training modules
- receive i-scan certification by putting your i-scan knowledge to the test
- choose your language: English, French, German, Italian, Russian or Spanish

www.i-scanimaging.com
Knowledge is power

**i-scan certification**

The i-scan certification has the aim to empower the clinical team to fully utilize i-scan in routine practice, fully leveraging on its proven benefits. With every upgraded DEFINA EPK-3000 video processor installation, your clinical team gets access to a comprehensive i-scan training platform, comprising self-training modules on i-scan classifications, tutorial videos and webinars. This platform stores a record of your progress and automatically informs you when new learning content is available.

After completion of the i-scan online training module, an i-scan certification will be issued by the i-scan task force to attest your i-scan knowledge.

**How do I get i-scan certification?**

**Step 1**
- Enroll in the PENTAX Medical customer portal
  - www.mypentaxmedical.eu

**Step 2**
- Navigate to the i-scan certification tab
  - i-scan CERT

**Step 3**
- Complete the activities
  - Finish the self-education classification module
  - Learn from a webinar

**Steps to i-scan certification**

- ✔️ Pass the test
- ✔️ Pass the test

**Training for Excellence**

This PENTAX Medical initiative is designed to assist endoscopic professionals in improving the quality of endoscopy. Leverage on the Training for Excellence programs provided by PENTAX Medical to maximize the i-scan benefits and best practices in endoscopy.

www.training-for-excellence.eu
PENTAX Medical offers two endoscope series and a range of models to ensure that all types of medical facilities and their patients can benefit from the latest HD endoscopy technology.

DEFINA EPK-3000 Video Processor

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>HD video output</td>
<td>DVI-D (1920 x 1080i)</td>
</tr>
<tr>
<td>SD video output</td>
<td>RGB, Y/C, composite</td>
</tr>
<tr>
<td>User interface</td>
<td>Control panel, keyboard</td>
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<tr>
<td>I-scan virtual chromoendoscopy</td>
<td>Quick access via i-scan keys 1, 2, 3</td>
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<tr>
<td>Light source</td>
<td>150W Xenon</td>
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<tr>
<td>Dimensions (W x H x D / weight)</td>
<td>360 x 180 x 485 mm / 13.0 kg</td>
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<tr>
<td>Dynamic Range Expansion</td>
<td>Off, Low, Med, High Adjustment for optimising image brightness in darker areas of an image</td>
</tr>
<tr>
<td>Freeze Scan</td>
<td>Off, Low, Med, High Selects the sharpest image from a series of images temporarily stored in the processor memory, whenever an image is frozen.</td>
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<tr>
<td>Digital Zoom</td>
<td>Magnification options: Off, 1.2x, 1.5x, 2.0x</td>
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90K Series endoscopes

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<thead>
<tr>
<th>Models</th>
<th>Insertion tube (ø mm)</th>
<th>Instrument channel (ø mm)</th>
<th>Working length (mm)</th>
<th>Total length (mm)</th>
<th>Field of view (degrees)</th>
<th>Focal range (mm)</th>
<th>Angulation Up / Down</th>
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<tbody>
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This product must be used only by healthcare professionals. Before usage and for detailed product specifications, please refer to the instructions for use. In the interest of technical process, specifications may change without notice.