Simple Videomanagement
Comfortable cabling of video installations
Expandable to up to 6 EYE-Q MATRIX moduls
The EYE-Q MATRIX offers users the option to centrally control all incoming image signals, reduce the required signal paths to what is absolutely necessary and meet the requirements of medical technology.

**Image signal management in the medical industry**

The number of available image, video and information signals in the modern operating theatre environment is growing constantly. Various additional devices as well as a complex cable management system are required to flexibly distribute these signals to viewing and recording devices. However, devices like signal converters, switches, etc., are typically developed for other industries, such as broadcasting, and therefore only partly meet the requirements of the medical industry.

**EYE-Q MATRIX: The design**

In the EYE-Q MATRIX, Rein EDV GmbH has introduced a flexible device design that bundles all image signal logistics for the operating theatre and the stations in one piece of hardware and enables flexible distribution.

» The EYE-Q Matrix processes both signals from typical clinic applications (HIS, RIS) and medically relevant information and data (endoscopy images, PACS) of any signal type.

» Various input signals can be directed to a digital output as desired. The resolution on the signal output is freely scalable up to 1920 x 1200 pixels.

» Thanks to the multi-picture function, different image sources can be combined into one output signal (either next to each other or within each other). Image position and size are adjustable.

**Inputs**

The Eye-Q Matrix provides the following inputs:

- VGA
- DVI-D
- HDMI 1.3a
- SDI (HDSDI with 3G)
- S-Video
- FBAS
- YPbPr
- RGBS
**Outputs**

The outputs can be expanded as required and can be adapted to suit on-site requirements. There is space for up to 6 EYE-Q Matrix modules in a 19-inch rack mounting (7 HE). The individual modules are cascaded and operated redundantly.

All input signals are transferred to the display devices via a single output signal. This saves costs and simplifies signal management. The DVI output signal can be directed to the display devices using all conventional transfer types, e.g., DVI cable, LWL cable or wirelessly.

In future, there will also be an option to use the HDSDI output signal instead of DVI.

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**Technical data**

<table>
<thead>
<tr>
<th>Input/Output</th>
<th>DVI, RGB, HDMI 1.3a, HDSDI (3G), FBAS, S-Video, VGA, YPbPr</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power supply</td>
<td>12 V, 1.5 A, incl. KVM Extender 12V, 2A</td>
</tr>
<tr>
<td>Physical size</td>
<td>69 mm x 300 mm x 185 mm</td>
</tr>
<tr>
<td>Weight</td>
<td>1.7 kg</td>
</tr>
<tr>
<td>Ambience</td>
<td>ambient temperature +20°C to +35°C, air humidity 30% - 75%</td>
</tr>
<tr>
<td>Warranty</td>
<td>24 months bring into service</td>
</tr>
</tbody>
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