Datasheet

HIDEQ 23-3 ISX
X-ray Image Intensifier
Features and benefits
- HDQE cesium iodide input phosphor screen of very fine structure deposited on a highly transparent aluminum input window provides low quantum noise and excellent resolution and supports a significant reduction in X-ray dose possible
- Metal enamel technology providing high precision components with excellent X-ray transparency and negligible X-ray scatter
- Electron optical zooming for improved detail visibility and increased resolution properties
- HR output phosphor combined with a high contrast output window featuring an anti-glare screen and scattered light trap ensures high luminous efficiency and excellent overall image definition with high contrast and high resolution
- Automatic dynamic ion-getter pump to help maintain the high vacuum throughout tube life
- Mu-metal encapsulated tube for very low geometric distortion
- 9”/23 cm, three fields
- High DQE, resolution, contrast and conversion factor

Low distortion
Good luminance distribution

Technology
Image intensifiers from Siemens are renowned for their brilliant contrast and low geometric distortion. These are the results of continuous development in our product line. Narrow process tolerances ensure constant electron-optical data, minimal disturbing blemishes and artifacts, resulting in excellent image quality.
<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight of unit (depending on housing type) [kg]</td>
<td>7 – 20</td>
</tr>
<tr>
<td>Overall length [mm]</td>
<td>336</td>
</tr>
<tr>
<td>Largest diameter (depending on housing type) [mm]</td>
<td>279 – 294</td>
</tr>
<tr>
<td>Diameter of output window [mm]</td>
<td>25</td>
</tr>
<tr>
<td>Thickness of output window [mm]</td>
<td>14</td>
</tr>
<tr>
<td>Output phosphor P43 – wavelength [nm]</td>
<td>548</td>
</tr>
<tr>
<td>Input phosphor</td>
<td>HDQE CsI layer</td>
</tr>
<tr>
<td>IEC 61262-1 through 6: 1994-07 apply</td>
<td>Full field</td>
</tr>
<tr>
<td>Nominal entrance field size [mm]/[in]</td>
<td>230/9</td>
</tr>
<tr>
<td>Useful entrance field size [mm]</td>
<td>215 160 120</td>
</tr>
<tr>
<td>Spatial resolution at the image center [Lp/mm]</td>
<td>5.2 6.0 6.5</td>
</tr>
<tr>
<td>at the image edge (90%) [Lp/mm]</td>
<td>5.0 5.8 6.0</td>
</tr>
<tr>
<td>Conversion factor Gx</td>
<td>27/235 14/122 8/70</td>
</tr>
<tr>
<td>Luminance non-uniformity [%]</td>
<td>20 7 7</td>
</tr>
<tr>
<td>Image distortion: differential at 90% radius [%]</td>
<td>18 5 5</td>
</tr>
<tr>
<td>integral at 90% radius [%]</td>
<td>5 1 1</td>
</tr>
<tr>
<td>Detective quantum efficiency DQE [%]</td>
<td>65 65 65</td>
</tr>
<tr>
<td>Contrast ratio: 10% area</td>
<td>33:1 42:1 61:1</td>
</tr>
<tr>
<td>10 mm diameter</td>
<td>22:1 24:1 30:1</td>
</tr>
</tbody>
</table>

These products bear a CE marking in accordance with the provisions of the 93/42/EEC directive concerning medical devices.
HIDEQ 23-3 ISX
Engineering Drawing

All dimensions in mm
HIDEQ 23-3 ISX
Engineering Drawing
Your Contact

If you would like any further information or to arrange a consultation, please feel free to contact us.

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