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Find the Kontron / Thales TH 8730 CB 020 B-A at our website: Click HERE
TH 8730
High resolution CCD camera

Dedicated to digital radiography and fluoroscopy

- Up to 60 progressive frames/second
- Optional analog output and real time image processing
- 12-bit digital output
- Blooming and smearing free

Comply with EMC standards

1024 x 1024 square pixels

THALES
The TH 8730 CCD camera has been specifically designed for use with X-Ray Image Intensifiers (XRII) in all high-end diagnostic imaging systems. It is optimized for the most demanding applications, including digital subtraction angiography (DSA), high resolution cardiology, low dose fluoroscopy and digital radiography.

This camera features the latest advances in CCD technology 1024 x 1024 pixel progressive scanning interline CCD, as well as Thales Electron Devices’ long experience in X-ray diagnostic imaging. The high resolution and contrast, combined with very low readout noise and high quantum efficiency ensure significant reductions in noise and exposure.

The 12-bit digital output for all CCD operating modes is compatible with most image post-processing techniques now in use. An optional board, compatible PC, makes possible a high definition analog output with image processing for real time fluoroscopy. Thanks to its small size, the camera is easily integrated in the system.

The digital link between the camera head and the control unit enables a noise free transfer of the images over up to 30 meters of cable, in full compliance with the EMC standards. This product is designed, developed and manufactured at an ISO 9001 and EN 46001 registered production site.

**Camera features**

- Real-time complete digital pixel non-uniformity correction
- Remote controlled video gain
- Internal or external synchronization

<table>
<thead>
<tr>
<th>Dynamic range (1)</th>
<th>66</th>
<th>dB</th>
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<tbody>
<tr>
<td>Cable length between camera head and control unit, up to</td>
<td>30</td>
<td>m max.</td>
</tr>
<tr>
<td></td>
<td>100</td>
<td>feet</td>
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<table>
<thead>
<tr>
<th>Camera dimensions:</th>
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<tbody>
<tr>
<td>diameter</td>
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<tr>
<td>length</td>
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(1) Maximum signal/noise in darkness, at minimum gain.

**Sensor features**

- Number of pixels: 1024 x 1024
- CCD: interline
- Active area: 13.1 x 13.1 mm

**Typical operating modes**

- 1024 x 1024 pixels: 30 progressive frames/second
- 1024 x 512 pixels: 60 progressive frames/second

**Optional board**: high definition analog output with image processing for real time fluoroscopy

- automatic Brightness Control (ABC)
- recursive filter
- horizontal/vertical image inversion
- last image Hold (LIH)
- g correction
- image shift and circular blanking
- 3 x 3 kernel edge enhancement
- XRII shading correction
- high resolution analog video output

For further information, please contact:

**THALES ELECTRON DEVICES**

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