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X-RAY IMAGING

R & F
CARDIO-ANGIO-URO
Special procedures

TH 8730

High resolution CCD camera

Comply with
EMC standards

- 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

1024 x 1024 square pixels



THALES

X-RAY IMAGING

R & F CARDIO-ANGIO-URO Special procedures

TH 8730



TH 8730 CCD camera

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	
Dynamic range (1)	66 dB
Cable length between camera head and control unit, up to	30 m max. 100 feet
Camera dimensions:	
• diameter	100 mm
• length	100 mm

(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



This document cannot be considered to be a contractual specification. The information given herein may be modified without notice due to product improvement or further development. Consult Thales Electron Devices before making use of this information for equipment design.

For further information, please contact:

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