

X-RAY IMAGING
MOBILE/MINI C-ARM

TH 59464 HD

Radiological Imaging Unit

Including
high-definition
1k x 1k CCD camera

- Plug-and-play design
- Very high resolution XRII coupled with 1k x 1k CCD camera
- High contrast
- Dual-field, 6"/4"

6" - 15 cm



THALES



TH 59464 HD

The TH 59464 HD is a high-end, compact radiological imaging unit (RIU) comprising a high-resolution 6" TH 9464 QX Image Intensifier, a specifically designed high-performance 1k x1k TH 8740 CCD camera, a dedicated compact optical system and a microprocessor-controlled power supply. It is PC/Windows® compatible for remote control. Optimized for today's most demanding medical

applications, TH 59464 HD features the latest developments in X-ray imaging technology from Thales Electron Devices. Various housings, mountings and paintings are also available on option.

This product is designed, developed and manufactured at an ISO 9001 : V 2000 and EN 46001 registered production site.

X-ray image intensifier: TH 9464 QX

Output image diameter		20	mm
Input phosphor	Hi-Resolution Csl layer		
DQE at 59.5 keV		65	%
Operating mode	Normal	Zoom 1	
Useful entrance field size	145	105	mm
Limiting central resolution	70	90	lp/cm
Contrast ratio:			
• large area (10%)	33:1		%
• small detail (10 mm)	20:1		%
Conversion factor	155	80	cd.m ⁻² /mR.s ⁻¹

Compact optical system (straight design)

Control via the camera
Motorized iris and neutral density filter

High definition CCD camera: TH 8740

Sensor features

Number of pixels	1000 x 1000
CCD technology	interline
Active area	7.4 x 7.4 mm

Typical scanning mode

1000 x 1000 pixels	up to 30 progressive fps
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Camera features

12-bit parallel digital output
High definition analog outputs with image processing for real-time fluoroscopy
Dynamic range (1) 62 dB

Camera configurations:

- with Processing & Control Unit for stand-alone operation with analog video output
- with Frame Grabber Interface for digital data acquisition & processing in a computer workstation

RIU mechanical characteristics

Overall length	400	mm approx.
Weight	15	kg

(1) Maximum signal/noise ratio in darkness at minimum gain.

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