

# X-RAY IMAGING

**MOBILE**

**R&F**

**CARDIO-ANGIO-URO**

**Special procedures**

## TH 9428 HP2

X-ray image intensifier

**9" - 23 cm**

- Electronic zoom: 3 fields
- High DQE, high resolution
- High conversion factor
- Proven reliability and long life time



**THALES**

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The TH 9428 HP2 is a triple field, 9-inch X-Ray Image Intensifier (XRII) featuring the best proven and reliable high technology:

- advanced input screen, for high DQE, high resolution and lower X-Ray exposure,
- ultra compact output phosphor screen, for unrivaled resolution, low structural noise, and a high conversion factor.

The TH 9428 HP2 sets the standard in image quality, with a design featuring:

- lower distortion,

- pulse operation capability,
- wide dynamic operating range.

Various housings, mountings and paintings are also available on option. The power supplies are microprocessor-controlled and comply with EMC standards. They also feature blanking capability on option.

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

## Typical electro-optical characteristics (1)

Nominal entrance field size	23	cm
Output-image diameter	20	mm
Output-window thickness	3.6	mm
Input phosphor: Hi-Res Csl layer		
Output phosphor P20 wavelength	520 - 540	nm
DQE at 59.5 keV	65	%

Operating mode	Normal	Zoom 1	Zoom 2	
Useful entrance field size	215	160	120	mm
Conversion factor	240	120	60	cd.m <sup>-2</sup> /mR.s <sup>-1</sup>
	28	14	7	cd.m <sup>-2</sup> /μGy.s <sup>-1</sup>
Limiting resolution:				
• center	48	56	64	lp/cm
• 70% radius	44	52	58	lp/cm
• 93% radius	42	50	54	lp/cm
Contrast ratio:				
• large area (10%)	23:1	25:1	30:1	
• small detail (10 mm)	16:1	18:1	20:1	
Brightness non-uniformity	20	10	5	%
Distortion:				
• Integral	4	2	1	%
• Differential (at 90% radius)	15	6	3	%

## Mechanical characteristics (depending on housing)

Overall length	338-341	mm
Largest diameter	285-310	mm
Weight	9-20	kg

(1) According to IEC standards 1262-1 to 1262-7.



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For further information, please contact:

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