

X-RAY IMAGING

R&F
CARDIO-ANGIO-URO
Special procedures

TH 9436 HP

X-ray image intensifier

4 fields

12" - 32 cm

- Electronic zoom, 4 fields
- High resolution
- High DQE
- High conversion factor



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The TH 9436 HP is a quadruple field, 12-inch X-Ray Image Intensifiers (XRII) featuring the latest developments in image intensifier 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 9436 HP sets the standard in image quality with:

- enhanced diagnostics capability,
- pulse operating 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.

This product is manufactured at an ISO 9001 and EN 46001 registered production site.

Typical electro-optical characteristics (1)

Nominal entrance field size	32	cm
Output-image diameter	25	mm
Output-window thickness	3.6	mm
Input phosphor: Hi-Res Csl layer		
Output phosphor P20 Wavelength	520 - 540	nm

Operating mode	Normal	Zoom 1	Zoom 2	Zoom 3	
Useful entrance field size	290	215	160	120	mm
DQE at 59.5 keV (IEC standard)	65				%
Conversion factor	240	120	65	30	cd.m ⁻² /mR.s ⁻¹
	28	14	7	3	cd.m ⁻² /μGy.s ⁻¹
Limiting resolution:					
• center	44	50	56	66	lp/cm
• 70% radius	42	48	54	62	lp/cm
• 93% radius	38	46	52	60	lp/cm
Contrast ratio:					
• large area (10%)	22:1	25:1	30:1	>30:1	
• small detail (10 mm)	13:1	15:1	17:1	19:1	
Brightness non-uniformity	20	15	10	5	%
Distortion:					
• integral	8	5	3	2	%
• differential (at 90% radius)	30	12	6	4	%

Mechanical characteristics (depending on housing)

Overall length	435	mm
Largest diameter	381	mm
Weight	30-34	kg

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



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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