



Classification of KODAK INDUSTREX ACR-2000 and ACR-2000i Digital Systems With KODAK INDUSTREX Flex HR Digital Imaging Plate 2174

Manufactured by

Eastman Kodak Company
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This is to certify that the KODAK INDUSTREX ACR-2000 and ACR-2000i Digital Systems, when used with the KODAK INDUSTREX Flex HR Digital Imaging Plate 2174, meet the requirements of the highest system class IP 1/100 according to EN 14784-1 and IP Special/100 according to ASTM E 2446 for industrial computed radiography with phosphor imaging plates for non-destructive testing, if the exposure dose is at minimum 0.98 mGy. This dose corresponds to a CEN-Speed and ISO-Speed of 1000 at a pixel size of 87 μm . The achievable basic spatial resolution is 100 μm . Other system classes (CEN: IP 2/100 to IP6/100; ASTM: IP I/100 to IP III/100) can be achieved with lower exposure dose values.

The table below shows the minimum (logarithmic) pixel intensities required for each system class, as they appear in the KODAK INDUSTREX Digital Viewing Software, V1.5 and higher. These values pertain to the area of interest in the computed radiograph.

ASTM System Class ASTM E 2446	CEN System Class EN 14784-1	Minimum SNR	Minimum (INDUSTREX System) Pixel Intensity	ISO/CEN Speed	System Parameters
ASTM IP Special/100	IP 1/100	130	1770	1000	High dose setting, Gain 128 Resolution 365 PPI BSR = 100 microns Exposure per ASTM E 2446
	IP 2/100	117	1632	1250	
	IP 3/100	78	1218	3200	
ASTM IP I/100	IP 4/100	65	1080	5000	
ASTM IP II/100	IP 5/100	52	942	6300	
ASTM IP III/100	IP 6/100	43	846	8000	

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