

ADVANTAGES:

Flat panel detectors in combination with high end image processing integrated within an extensive evaluation and documentation software guarantee to you:

Mobile & stationary digital radiography:

- high image quality
- magnification up to 8 times by zoom functions
- low needed space
- low system weight

Fast and reliable inspection and evaluation:

- immediate image evaluation after exposure
- safe evaluation by image processing
- immediate comparison with previous digital radiographs
- file archiving by all available media

Environment and health:

- no need for chemicals
- significantly reduced radiation doses by short exposure times

High economical efficiency:

- no expenses for film material and film processing
- extremely short exposure times
- no moving time between exposure site and developing equipment
- no viewing equipment necessary
- print out of automatically generated reports
- access optimised archiving
- flexible financing

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I am interested in RADIS-401 system:

- I would like an individual consultants about introduction of digital industrial radiology.
- Please send me further information.
- Please arrange a date with me.

Company:

Name:

Street:

Town:

Phone:

Fax:

Mobile:

E-Mail:

Contact:

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RADIS-401

The technology jump in digital industrial radiology

The digital, mobile & stationary system
for Non Destructive Testing (NDT)

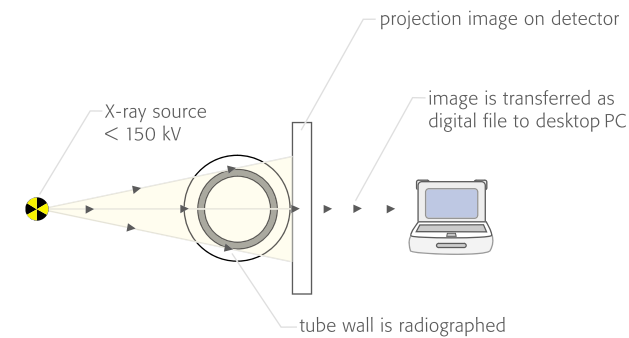
e.g. for:
weldings, pores, shrinkage and cracks
in:
piping systems, castings, air and
space technology products
and in production techniques



Digital industrial radiology using
flat panel detectors



FUNCTIONAL PRINCIPLE:



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The digital solution:

RADIS-401 system consists of two main components, a digital flat panel detector to generate digital radiographs and a desktop PC with special software programmes. The software programmes control the detector and contain all necessary functions to acquire, display, evaluate, process and archive digital radiographic images.

The fastest solution:

RADIS-401 system offers the optimum for the digital industrial radiology. The pixel size of $50\ \mu\text{m}$ enables the digital industrial radiology of weldings. The performance of weld inspection is highly supported by self adjustable report forms. The exposure times at the site require just 35 sec as maximum. The image appears at the monitor immediately after completion of exposure time and can be evaluated at the same time. The mentioned advantages show impressively the gain in efficiency using **RADIS-401** system.

COMPONENTS:

Flat panel detector:



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Dimensions: 200x200x28 mm
Weight: 3,5 kg
Number of pixels: 2240x2368
Pixel size: $50 \times 50\ \mu\text{m}$
Pixel resolution: 12 Bit
Active area: 112 x 118 mm
Energy range: 20 - 150 kV
Min. read out time: 440 ms
Max. image frequency: 2,5 Hz
Temperature range: 0 - 35°C
Voltage: 110/220 V
Power consumption: <math>< 50\text{ Watt}</math>

Desktop PC:



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Operating system: Windows 2000/XP
Processor: Intel Pentium IV > 2,8 GHz
RAM: 512 MB or 1 GB
Harddisc: 160 GB
Hardware: DVD burner
Monitor: 17" TFT Display
(resolution: 1024x768)

RADIS-401

The technology jump in digital industrial radiology

Scan, evaluation & documentation software:

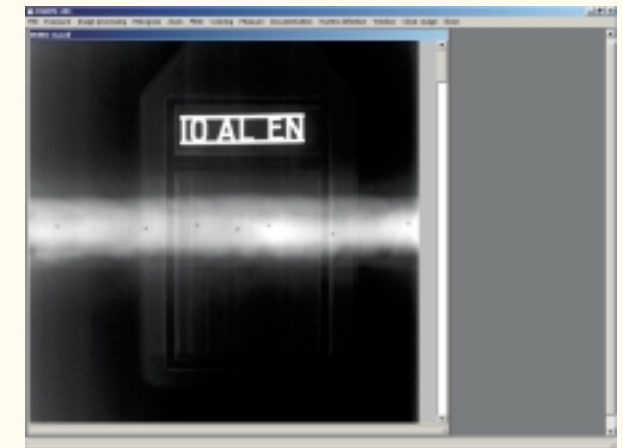


Fig. above: circumferential weld with EN wire IQI

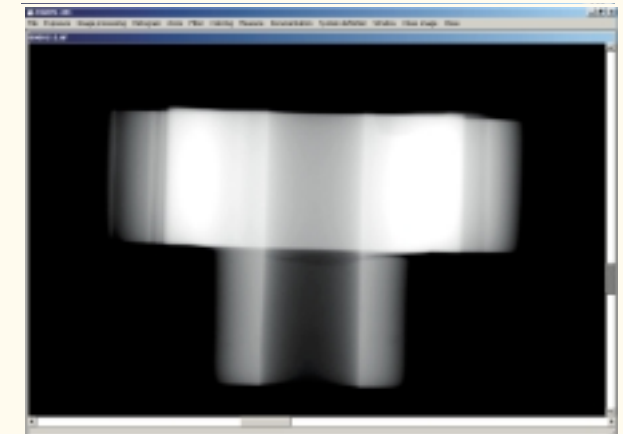


Fig. above: rotor of motor with longitudinal crack

The exposure control software is responsible for the generation of the digital image. The evaluation software cares for optimised display of the images and supports the measurements. The documentation software allows the printout of an inspection report immediately after evaluation of the images on the PC. The report form may be adapted according to the requirements of the user itself.