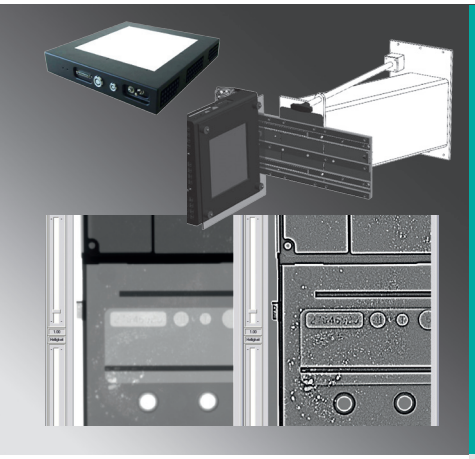
Y.HDR-Inspect Upgrade Kit

Highly dynamic radioscopy



- High detail detectability
- Increased inspection assurance and speed
- Recognizability of all defects in one viewing of live image
- Definition of spatial position and shape of defects

HDR, short for highly dynamic radioscopy, designates a procedure in which a special filter makes a scanned inspection item appear as if made of glass in a low-noise live image.

The prerequisite for HDR is the use of suitable digital flat-panel detectors for low-noise images, as well as the corresponding software functionalities.

Thanks to the HDR filter, flaws in all of the inspection item's material thicknesses are visible right from the start. Constant adjustment of the radioscopic parameters for thin or thicker regions in the inspection item is not necessary.

The inspection operator obtains information regarding a flaw's spatial position inside the inspection item along with its three-dimensional characteristics.

YXLON. X-ray technology at its best.

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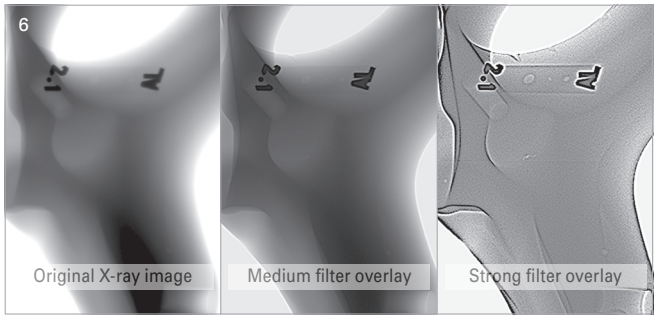
1 Y.MU2000 system
2 Sample 'as if made of glass'
3 Y.MU231 system
4 Y.Pipe inspection system
5 Y. Access100
6 HDR filter algorithm using Y.IMAGEx500 digital image processing software



Increased inspection speed

The usable image represents a much larger region of the inspection item in comparison to a 9" image intensifier. Unlike the 9" image intensifier, no diminishing of the inspection field occurs when spatial resolution is increased. The inspection items are testable with one viewing due to the glass-like depiction.
In the case of inspection items with large differences in material thickness, constant adjustment of the radioscopic parameters is no longer necessary.

Increased reliability

- 18-month full warranty for the flat-panel detector!
- Simple troubleshooting for defects
- Reduction of possibility for errors

Increased inspection assurance and precision

Defects are detected with certainty due to the glass-like depiction.
As a result of the combination of detector and software, smaller flaws are detectable than with an image intensifier. The MU2000 Upgrade Kit offers the possibility to enlarge the focus-to-detector distance (FDD) by an additional 400 mm due to the special inclusion of the flat-panel detector and its flat construction design. This enables greater geometric magnifications to be worked with than was previously possible, reducing geometric blurring in the system.

Y.HDR-Inspect Upgrade Kit components

- Y.Panel HDR 160 kV, 225 kV, 320 kV, 450 kV
- Detector mount (incl. lead shielding, 2x fans, passive crash guard)
- Mechanical conversion kit
- Y.Display T20-CR01, 20" TFT monitor
- Y.IMAGE2500-D/ Y.IMAGE3500 digital image processing software

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