3DX-RAY

MDXi

- X-ray inspection
- Image analysis
- Quality control

Industrial cabinet x-ray system

MDXi is a high resolution turnkey x-ray inspection system suitable for stand-alone use or production line integration.

High quality data for quality assurance and process control.

- Automated analysis to provide real-time pass / fail decisions
- High quality data for export to QC/SCADA/SPC systems
- Integration with factory systems

The MDXi is available as a stand-alone unit suitable for batch or pilot plant processing and laboratory testing.

It can also be integrated into a production line for 100% inspection at full production speeds.

The MDXi offers multiple view capability and is configured to provide optimum resolution for your application.

MDXi systems are suitable for products up to 400mm x 430mm (diameter x height).

MDXi offers the capability to detect, measure and analyse features hidden from view to confirm the quality, integrity and safety of your product.

Ideal for use in batch or pilot plant processing, laboratory testing and production lines.
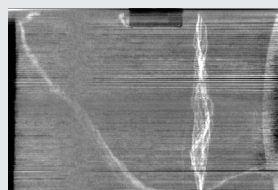
Detect, Measure, Analyse

- Correct alignment
- Correct size
- Defects
- Contamination
- Coatings
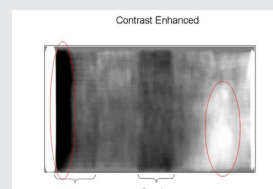- Presence / absence

Features

- Automated analysis to provide real-time pass / fail decisions
- High quality data for export to QC/SCADA/SPC systems
- Integration with factory systems
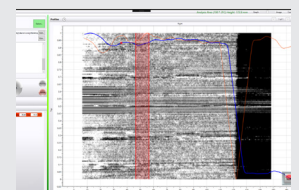- 24/7 support available

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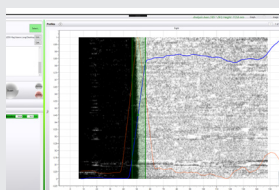
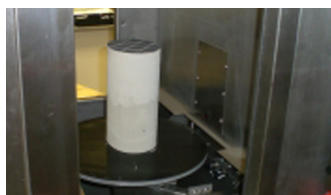Part profile with limits

Showing cracks in component

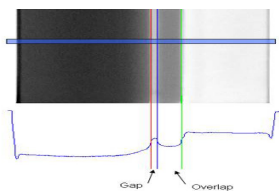Highlighting coating overlap and void

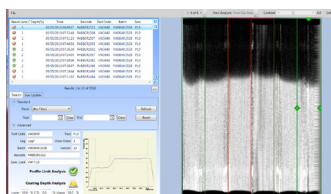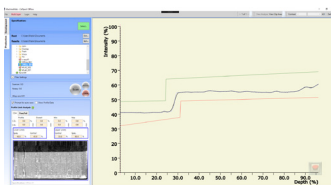A failed part with automatic notification

MDXi

Sample for x-ray

Analysis of x-ray image

High quality data output for process control

Part profile with boundary conditions

MDXi

Technical Specification	
	MDXi systems are configured to the specific customer application and requirements. The specification given below is for a typical configuration.
X-Ray Detector Panel	
Type	Linear PIN photodiode array
Pixel options	800µm, 400µm or 200µm
Dynamic range	4096 (12 bit)
X-Ray Generator	
Type	Typically 150kV, 1.2mA
Power	180 to 640 Watt
System	
Power	110/220V AC, 50/60 Hz
Metalwork	Powder coated mild steel as standard (stainless steel option)
Dimensions (typical)	960mm x 1395mm x 1753mm (W x D x H) – dependant on configuration required
Weight	300kg - 899kg (dependant on configuration required)
Sample Handling	
Sample size (maximum)	400mm x 430mm (diameter x height)
Stage motion	Vertical and rotational
Handling options	Manual / robot / pick and place
System Control	
PC	19" rack mounted
PC operating system	Windows
System control	PLC or PC
Network interface	Ethernet IP-PLC-PLC Ethernet control link Ethernet - SQL link via LAN
Operator interface	LCD screen / keyboard (HMI panel option)
Sample door	Manual (standard) / automatic with PLC control (option)
Data Storage	
Hardware	Factory network or external PC
Software	Customer defined SQL database
Environmental	
Operating temperature	0^0C to $+40^0$C
Survival temperature	-40^0C to $+80^0$C
Relative humidity	5% to 95% non-condensing
WEEE regulation	WEE/AH0116XU
Safety & Standards	
	CE marked
	Designed to meet Ionising Radiation Regulations, 1999, UK
	FCC PT 15 107/109