

Meteor1D

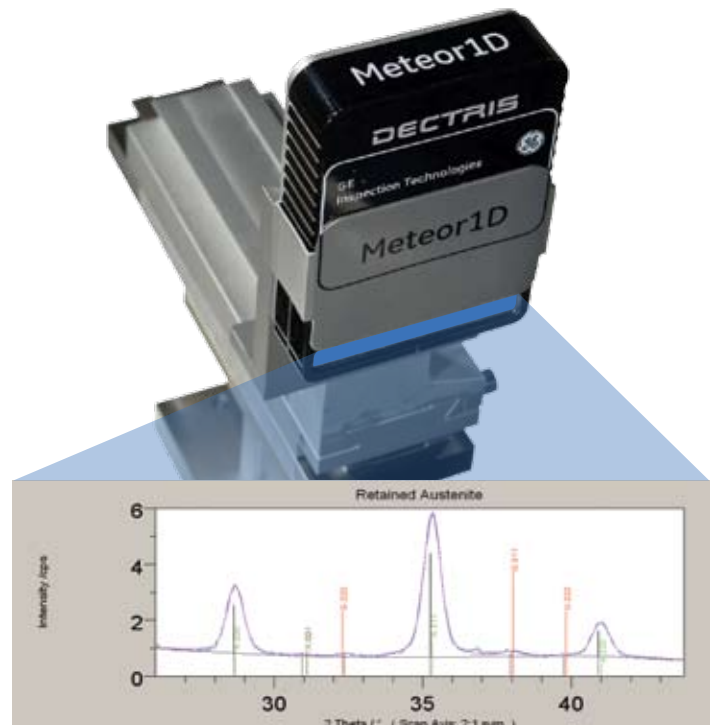
Analytical X-ray

Ultra-fast XRD Detector

The **NEW** Meteor1D is the latest addition to the Meteor detector family for X-ray diffraction. Meteor1D is the new standard for faster measurements with one-dimensional detectors. Offering extremely fast read-out time, high dynamics, largest capture angle and extreme versatility all packaged in a compact and robust design. These features fit the new 1D detector for a wide range of applications, including phase analysis, kinetic & in-situ experiments, residual stress & determination of retained austenite, and texture & thin film analysis.

Features and Benefits

- A world leader in capture angle and resolution
- Extremely fast read-out, high speed and dynamics
- Pole position for highest diffraction angle
- Upgrade package for all XRD 3000 and XRD 3003 systems
- Highest performance with RayfleX software
- No gas, no cooling, no Beryllium, RoHS compliant
- Maintenance free, robust for 24/7 applications

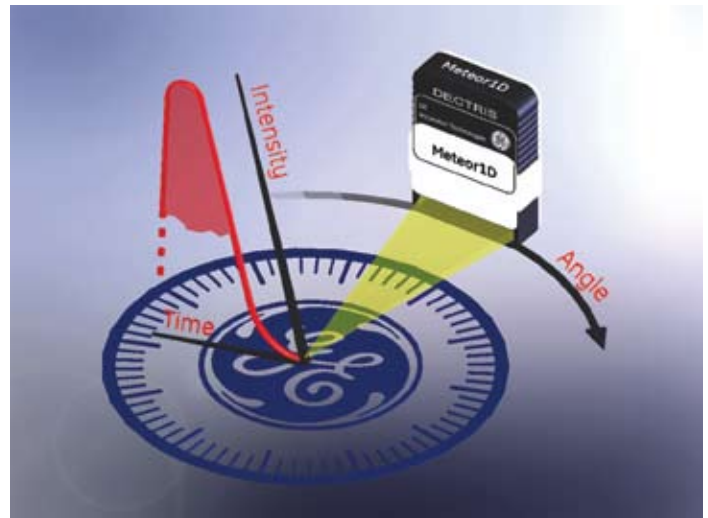


Pole position for high capture angle

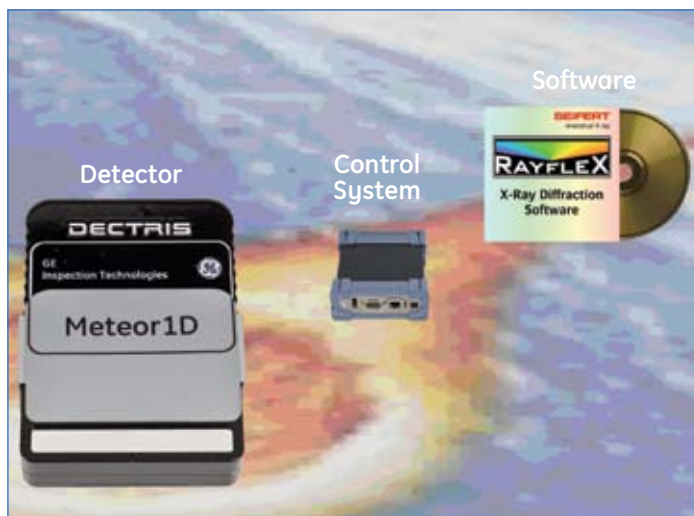


Technical Specifications

Meteor1D	
Active area	64 mm x 8 mm
Spatial resolution (pitch)	50 μm (1280 channels)
Maximum capture angle	up to 20° in 2Theta (dependent on measuring circle)
Maximum 2Theta	> 170° (dependent on setup)
Energy range	from Cr to Mo
Energy resolution	25% (for Cu)
Detection efficiency	> 98% (for Cu)
Maximum linear count rate per channel	> 200.000 cps
Maximum linear count rate	> $2,5 \times 10^8$ cps
Read-out time (detector)	0,3 ms
Framerate (control system)	50 Hz
Order number	9064500



Meteor1D capture angle



Meteor1D detector package for GE SEIFERT Analytical XRD system



GE SEIFERT Analytical XRD stress analyzer system



www.geinspectiontechnologies.com

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