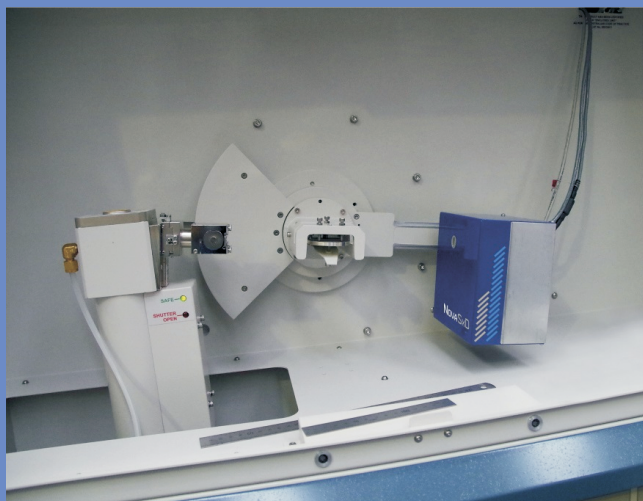


# GBC Scientific Equipment Pty Ltd

## NEW MtriX Solid State Detector Accessory for GBC *EMMA* X-ray Diffractometer

The addition of a fast multi-strip Solid State detector allows you to scan 30x faster with the same counting statistics.



GBC MtriX Solid State detector fitted to *EMMA* XRD

### Benefits:

- Exceptionally fast analysis.
- Increased throughput of samples.
- Plug and Play retro-fit.
- Suitable to upgrade new as well as old XRD's in the field.

### Specifications of SSD

Max Count Rate	$5 \times 10^5$ / pixel, $5 \times 10^7$ global
Max Scan Speed	120 deg/min
Angular Resolution	0.06 deg at 200 mm radius
Strip Pitch	120 $\mu$ m
Number of Channels	96
Angular Span	3.3 deg at 200 mm radius
Angular Accuracy	0.002 degrees
Energy Resolution	< 10%
Energy Range	4.5 keV to 17 keV

### Applications:

- All X-ray powder or polycrystalline diffraction analysis such as metals, alloys, polymers, minerals, etc.

### Features:

- Direct detection of X-rays.
- High dynamic range.
- Rapid data collection.
- Excellent angular resolution.
- No gas or cooling required.
- Maintenance free.

GBC Scientific Equipment Pty Ltd  
4 Lakewood Boulevard  
Braeside Victoria 3195 Australia  
Phone: +61 3 9588 6666 Fax: +61 3 9588 6677  
E-mail: [gbc@gbcsci.com](mailto:gbc@gbcsci.com) Website: [www.gbcsci.com](http://www.gbcsci.com)

