

# Area Pixel Sensor Technology

G180 System



## High resolution imaging in real time for medical and pharmaceutical applications.

Using the very latest Area Pixel Sensor (APS) technology, the Sapphire G180 series inspection systems achieve a resolution that is 10 times greater than traditional x-ray technology.

Sapphire systems are unrivalled in the industry for sensitivity, speed and sophistication, giving compelling advantages in identifying critical assembly errors or contaminants where other techniques may not.

Using a wide range of product handling methods to feed the products into the inspection station, the Sapphire G180 will automatically reject or mark defective items.

The system can inspect mechanical dosing devices such as insulin pumps or inhalers to confirm component integrity, as well as checking fill levels in vials, dosing levels in capsules, integrity of blister packs, seals and patient leaflets verification.

## Superior Performance

- Area Pixel Sensor technology for high resolution imaging.
- Real time analysis of product on packaging lines.
- Automatic rejection or marking of defective products.
- Available with certified database package to 21CFR Part 11.



## Key Features

- ▶ Inspect dosing devices for product and component conformity.
- ▶ Checks fill and dosing levels in vials and capsules.
- ▶ Designed for pharmaceutical industry standards.
- ▶ Polished mirror finish to meet 3A criteria.
- ▶ Quick release belt for easy dismantling and cleaning.

## Sapphire Inspection Systems

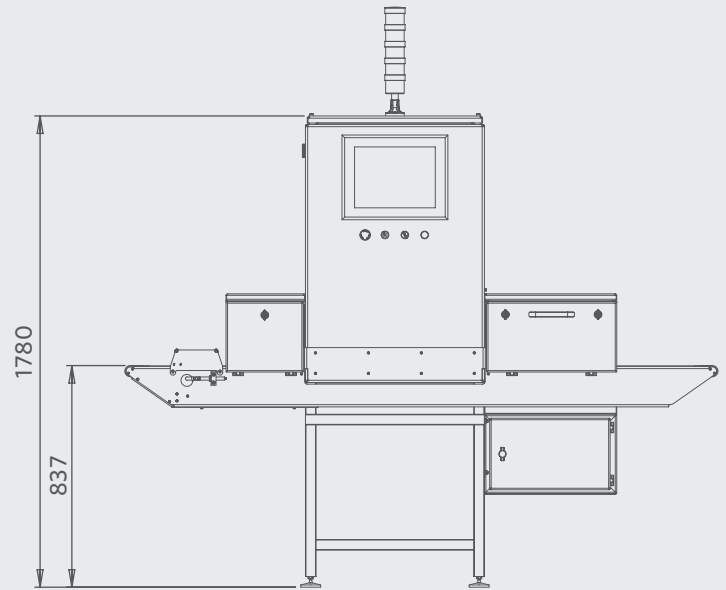
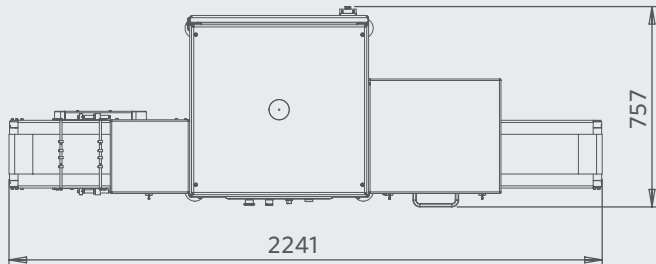
New Cambridge House  
Litlington  
Royston  
Hertfordshire SG8 0SS

t. 01763 853399 e. [sales@sapphire-inspection.com](mailto:sales@sapphire-inspection.com)

[www.sapphire-inspection.com](http://www.sapphire-inspection.com)



## Specifications



G180 Specifications	
Technology	Computer-controlled 'Low Energy' Technology
X-Ray Generator	Various specification from 16kV to 50kV computer controlled
Conveyor Speed	0-100 inspections/min servo controlled
Detector Dimensions	from 120mm x 70mm to 230mm x 150mm
Minimum Acquisition Time	40 milliseconds
Resolution	16384 grey levels per pixel
Video Display	Displays video images with real-time
Calibration	Periodic calibration manually or by automatic sequencing
Detection Limit	0.075mm typically
Power Requirements	110 VAC or 200-240 VAC at 500VA
Dimensions (LxWxH)	600 x 1620 x 600 mm excluding conveyor



**Pembroke College  
Cambridge**

Corporate Partner of Pembroke College, Cambridge

## Sapphire - Always at the forefront

Formed in 2006 from founding research and design parent company Cheyney, Sapphire is renowned as the innovator of low energy inspection.

With stellar designers and Cheyney technology, our Sapphire systems are quick to install, easy to use and unrivalled in the industry for speed, sensitivity and sophistication of detection.



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