

Inspection & Measurement System

G80 System



The G80 series of Sapphire Inspection Systems is designed for large products and cases.

From dairy items, such as blocks of cheese to boxed snack foods such as crisps and nuts, the G80 can inspect virtually any discrete packaged item or loose bulk flow that can travel by conveyor up to 400mm high by 400 mm wide.

The Sapphire dual linear array ensures that every part of the product is inspected. Where contaminants can not be seen in one direction they are detected in the other orientation.

Superior contaminant identification is achieved using Sapphire's exclusive capabilities for high sensitivity imaging thanks to our expertise in low energy technology, the G80 detects even thin contaminants such as metal flakes.

In addition to contaminant inspection, the Sapphire G80 also scans for missing and broken parts, packing voids, fill levels as well as confirming count and mass.

Superior Performance

- Contaminant detection (metal, stone, glass, bone and certain plastics).
- Scanning for mass, missing or broken products.
- Detecting packing voids.
- Confirming fill levels.
- Isolating reject based on contamination or check-weigh non-conformities.



Key Features

Dual Beam technology

Inspects cases up to 24" wide

Multiple configurations - trays, pouches, bulk flow, bottles and cans.

Hygienic design, up to FMSA standard

Quick and easy wash down

Easy user interface and controls

Sapphire Inspection Systems

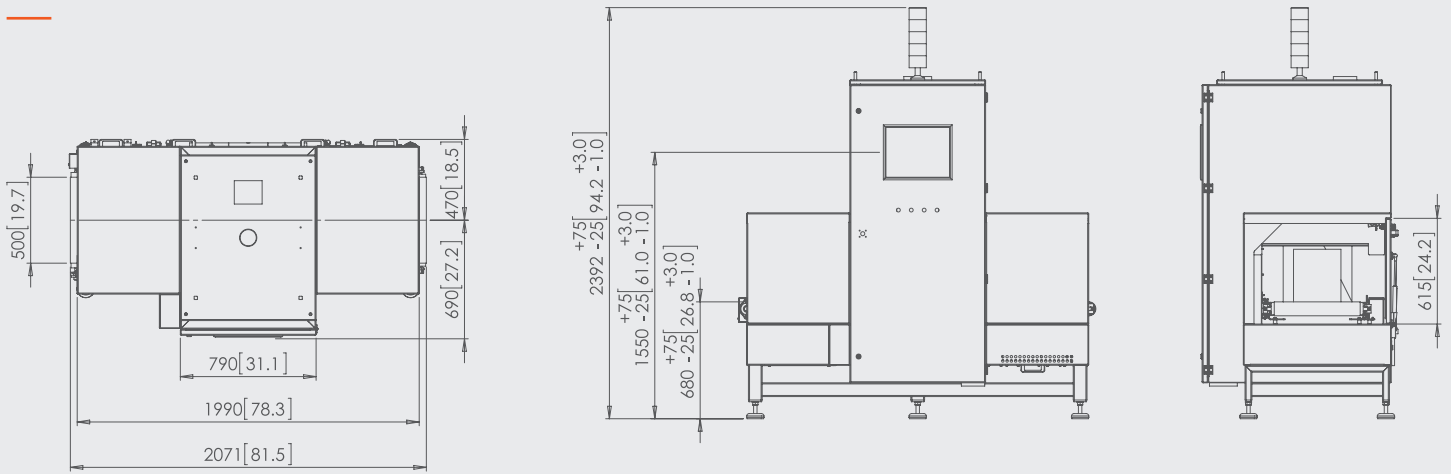
New Cambridge House
Litlington
Royston
Hertfordshire SG8 0SS

t. 01763 853399 e. sales@sapphire-inspection.com



www.sapphire-inspection.com

Specifications



G80 Specifications

Technology	Computer-controlled 'Low Energy' Technology
X-Ray Generator	Various specification from 80kV to 120kV
Conveyor Speed	0-60 m/min computer controlled
Detector Array Length	Dual detector up to 2 x 614 mm
Maximum Line Rate	2000 lines per second
Resolution	4096 grey levels per pixel
Video Display	15" colour touchscreen with real-time images and diagnostics
Calibration	Self-Calibrating during normal operation
Detection Limit	1.5 mm stainless steel typical, dependent on product
Inspection Rate	Up to 150 cases/minute
Power Requirements	110 VAC or 200-240 VAC at 1.5kVA
Dimensions (LxWxH)	2070 x 1100 x 1970 mm



**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.



Sapphire Inspection Systems

New Cambridge House
Litlington
Royston
Hertfordshire SG8 OSS

t. 01763 853399 e. sales@sapphire-inspection.com



www.sapphire-inspection.com