



CRESCENDO X-RAY INSPECTION SYSTEM

The Crescendo is a dual beam side-view X-ray inspection system that is specifically designed for inspecting taller rigid containers (e.g. glass jars, metal and composite cans, plastic containers and boxes) including number 10 cans.

The Crescendo's two metal ceramic tubes deliver 1200 watts of X-ray power with the secondary X-ray tube being electronically controlled for height adjustment to allow precise inspection of the upper part of a container.

On metal cans, the Crescendo provides a clear image of the top seam. The Crescendo also offers superior fill height measurement capability.

SUPPORTED APPLICATIONS



Large Cans
(Metal & Composite)



Plastic Jugs
& Pails



Large Boxed
Foods

KEY FEATURES

✔ Modular Design

All subsystems have been designed with maximum system availability, redundancy, and fault tolerance in mind

✔ Fill Level Measurement

High precision fill-level and headspace monitoring

✔ Real-Time Remote Support

Integrated wireless connectivity allows for secure remote support 24/7 globally. Peco InspX can resolve over 95% of customer issues with our powerful remote diagnostics software

✔ Robust IT Security

Fully integrated end-to-end IT security offerings ensure your networks aren't vulnerable and are defended from any outside threats. Optional IoT module allows for seamless SCADA integration

✔ Advanced X-ray Tube/ Detector Design

High contrast X-ray tube with separate power supply allows for lowest cost of ownership. Detector hardened against wear to maximize component lifetime

✔ No Requirement for Container Spacing

This inspection geometry does not require any container spacing between adjacent containers

✔ Dual X-ray Beams

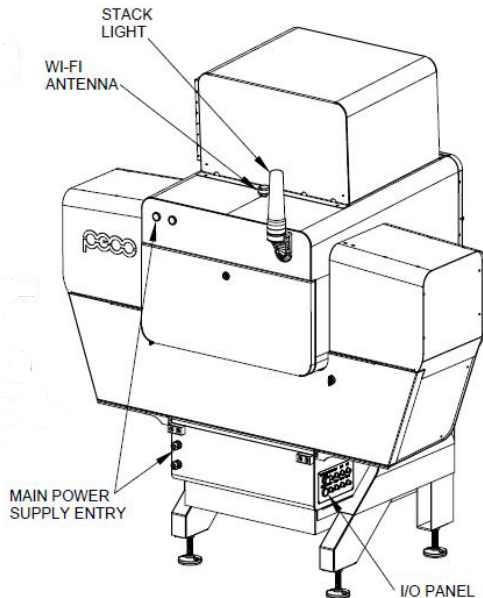
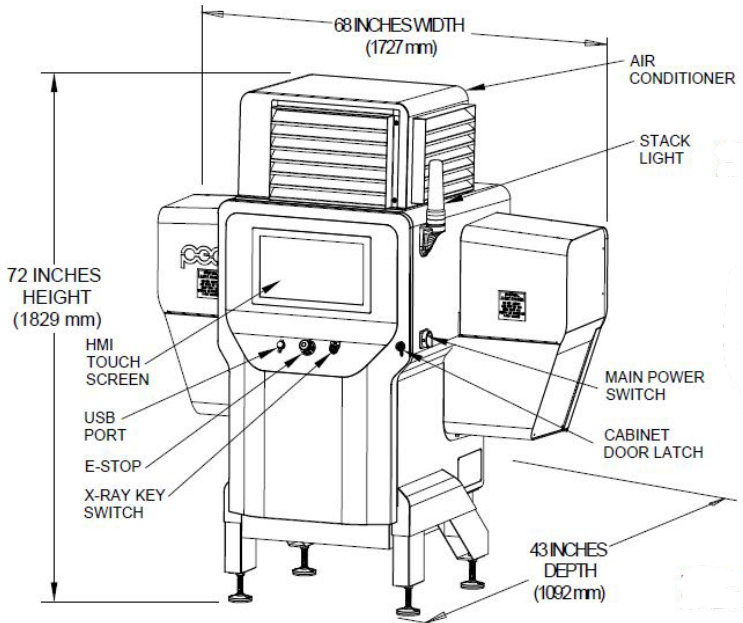
The Crescendo offers 1200 watts of X-ray power with a vertically adjustable second tube. This design allows the Crescendo to image the largest containers without compromising inspection quality

✔ High Reliability Non-Contact Inspection

Mounts over the top of the customer's existing conveyor, eliminating conveyor transfers into the machine for inspection. This design minimizes risk against conveyor jams over transfer points



MACHINE LAYOUT & SPECIFICATIONS



Machine Architecture	Side-view X-ray system
Conveyor	No internal conveyor. Mounts over customer's existing conveyor. No transfer points or product contact
X-ray Tube Configuration	Two high contrast X-ray tubes – dual beam
Aperture Size	Max Width: 9 in (229 mm) Max Height: 12 in (300 mm)
Environment	Standard: IP 66/NEMA 4X Optional: IP 69K, Passivation
Line Speed	Up to 700 ft/min (213 m/min)
Input Voltage	Available in 120 or 240 VAC options
Air Supply	80 psi @ 5 cfm (for ejection only)
Ambient Temperature	33°F – 113°F (1°C – 45°C)
Air Conditioning	Standard
Diode Size	0.8 mm or 0.4 mm
Container Ejection	Full range of high-speed ejection and diversion options available
Dimensions (LxDxH)	68 x 43 x 72 in (1,727 x 1,092 x 1,840 mm)
Safety Rating	Category 4, Performance Level E
Computer	Solid State Industrial PC with Windows 10 IOT
Connectivity	Integrated WiFi, Ethernet and Cellular Connection
Supported SCADA Systems	Ignition, Wonderware, FactoryTalk, Kepware and other OPC-UA compliant systems
Supported Cloud Platforms	Azure IoT Hub, AWS and Google Cloud via MQTT
Operator Interface	20" wide touchscreen
Construction	Standard: 304 Stainless Steel Optional: 316L/Passivated

