



Thermo Scientific Xpert B400/B600
X-Ray Inspection System

- Detects contaminants in bulk flows
- Maximized throughput
- Multilane rejection to reduce waste
- Easy to clean and maintain

Foreign object detection

in bulk food products prior to use as ingredients or packaged products

The Thermo Scientific™ Xpert™ Bulk X-ray Inspection Systems start where other contaminant detection approaches leave off. They are ideal for finding metal, glass, rock and other objects in bulk foods such as nuts, seeds, berries or vegetables. The systems come in two inspection widths to optimize throughput/cost and can be customized to fit your production environment.

Thermo Scientific Xpert B400/B600 X-Ray Inspection Systems

Application and X-Ray Specifications

X-ray Power	70 kV, 1.2 mA (84W) or 80 kV, 2 mA (160W). B600 160W only
Detector Scan Rate	Up to 2800 lines/second
Detector Resolution	0.8mm standard, 0.4mm optional on B400
Detection Algorithms Available	Binary, Contrast, Gradient, Groups, Morphology
Inspectable Belt Width	286 mm (11.3 in) at up to 75 mm (3 in) product height (B400) 474 mm (19.5 in) at up to 75 mm (3 in) product height (B600)
Belt Speed Range	10m/min to 64m/min (33ft/min to 210ft/min)
Multilane Operation	Single lane or 4 lanes with separate reject gates
Maximum conveyable product weight	10 kg (22 lbs)
Input Funnel Height	1350 mm (53 in) ± 75 mm (3 in)
Output Chute Height	541 mm (21 in) ± 75 mm (3 in)
System Length	Approximately 2.4 m (94.5 in)
X-Ray Shielding	No curtains required
Safety/Security Features	X-ray power key, emergency stops, radiation curtains, LED X-ray imminent/on lights, all doors equipped with magnetic interlocks
Human Machine Interface (HMI)	15-inch diagonal touchscreen with protective cover
Interface Languages Available	English, Spanish, Italian, French, German, Chinese; Others available on request

Environmental, Electrical and Operational Specifications

Operating Temperature	+5°C to +40°C (+41°F to +104°F)
Machine Cooling	Built-in 2083 BTU (610 W) cabinet airconditioner
Relative Humidity	20% to 90% non-condensing
Electrical Input	190 to 240 VAC, 50/60 Hz, 20-amp service
USB Port	2.0, watertight port on outside of machine
Network Port	Ethernet
Compressed Air (for rejection devices)	80 psi to 100 psi (5.5 bar to 6.9 bar)
Machine Weight (standard model)	B 400: 850 kg (1870 lbs), B600: 1040 kg (2290 lbs)

Conformance Tests and Certifications

Radiation Safety Conformance	FDA CFR 21 part 1020.40 (contact factory for other regional certifications)
Export/Safety	CE, UL or CSA 508A on request (verified by ETL)
Intrusion Protection Rating	IP 54 or IP65 with stainless steel airconditioner



Infeed funnel with adjustable product metering



Inspection area with product guides
(troughed belt for small products available)



Good product outfeed chute
(rejects drop down to bin or takeaway conveyor)



Multilane rejection gates
(other rejecters available for small products)

thermoscientific.com/xrayinspection

© 2016 Thermo Fisher Scientific Inc. All rights reserved. All trademarks are the property of Thermo Fisher Scientific Inc. and its subsidiaries. Specifications, terms and pricing are subject to change. Not all products are available in all countries. Please consult your local sales representative for details.

US and Canada 800 227 8891
Australia/NZ +1300 735 292
Mexico +52 55 5639 2184
Argentina +54 11 4334 3827
Chile +56 22 2378 5080

India +91 20 6626 7000
Italy +39 0 5217 8861
France +33 (0) 16 092 4800
Germany +49 (0) 20 882 4930
Spain +34 (0) 91 484 5965

UK +44 (0) 17 8882 0300
Netherlands +31 (0) 76 579 5555
South Africa +27 11 776 0000
China 800 810 5118
Brazil +55 11 2730 3261
Southeast Asia +65 6499 9981

Thermo
SCIENTIFIC

A Thermo Fisher Scientific Brand

Email: sales.packaging.us@thermofisher.com

Literature Code CAD.PI08.0316