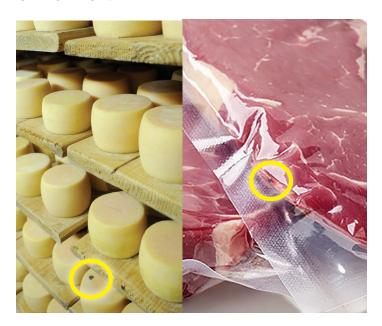
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Thermo Scientific Xpert Heavy Duty (HD) X-ray Detection Systems

X-ray inspection with maximum penetration for large, dense products

The Thermo Scientific™ Xpert™ Heavy
Duty X-ray Inspection Systems detect a wide
range of foreign materials. They are robust
solutions for larger cases, bags and trays.
Seeing through thick, dense products is not
a problem with these high-power systems.
Three inspection widths are available to
optimize performance in your production
environment.





Features

All of the Xpert HD systems have the following features:

- Very high X-ray power (900W 90 kV/10mA)
- Optimal performance with easy setup and use
- A belt width and aperture height to accommodate most large package sizes
- Robust design to meet stringent washdown procedures
- Shielding to meet radiation requirements anywhere in the world

Options

- External chiller for X-ray tube and cabinet cooling
- High resolution detectors (C400 model only)
- Integrated or stand-alone rejection systems
- Customized inspection software
- Frames for taller line heights



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Thermo Scientific Xpert HD X-ray Detection Systems Specifications

| Application and X-ray specifications | |
|---|--|
| X-ray Power | 90kV, 10mA (900W) |
| Detector Scan Rate | Up to 2800 lines/second |
| Detector Resolution | 0.8mm standard C400HD, C600HD, C800HD; 0.4mm optional C400 only |
| Detection Algorithms Available | Binary, Contrast, Gradient, Groups, Morphology |
| Inspectable Belt Width* | C400HD: 355mm wide at 50mm high to maximum of 250mm wide at 250mm high C600HD: 540mm wide at 50mm high to maximum of 400mm wide at 250mm high C800HD: 730mm wide at 50mm high to maximum of 525mm wide at 300mm high |
| Belt Speed Range | 10m/min to 60m/min (33ft/min to 196ft/min) |
| Multilane Operation | Single lane or 8 lanes with separate reject gates |
| Maximum Conveyable Product Weight | C400: 30kg (66 lbs), C600 & C800: 40kg (88lbs) |
| Standard Line Height | 900mm (+/- 100mm), optional frames for higher production lines |
| System Length | C400 & C600 2.1m (82.7"), C800: 2.25m (88.6") |
| X-Ray Shielding | Lead free, FDA approved curtains |
| Safety/Security Features | X-ray power key, emergency stops, radiation curtains, LED X-ray imminent/on lights, all doors have magnetic interlocks |
| Human Machine Interface (HMI) | 15-inch diagonal touchscreen with protective cover |
| Interface Languages Available | English, Spanish, Italian, French, German, Chinese, Hungarian, Norwegian, Polish, Korean; Others available on request |
| Environment, electrical and operational specifications. Note: See X-ray beam diagrams below for details | |
| Operating Temperature | +5°C to +38°C (+41°F to +100°F) |
| Machine Cooling | External water chiller |
| Relative Humidity | 0% to 90% non-condensing |
| Electrical Input | 190 to 240 VAC, 50/60 Hz Single Phase, 16 amp service |
| USB Port | 2.0, watertight port on outside of machine |
| Network Port | Ethernet |
| Machine Weight (standard model) | C400: 850 kg (1870 lbs), C600: 1040 kg (2290 lbs), C800: 1200kg (2645 lbs) |
| Conformance tests and certifications | |
| Radiation Safety Conformance | FDA CFR 21 part 1020.40 (contact factory for other regional certifications) |
| Export/Safety | CE, UL 508A |
| Intrusion Protection Rating | IP65 standard |

Xpert HD X-ray Beam Geometry

