

X^R

X-ray Inspection



Entry Level X-ray detection for the food and packaging industries

Loma X³

Loma X^e

Loma X³ Rapid

Loma X³ Bulk

Loma X^R

Summary

The X^R is part of the family of the next generation of contaminant detection equipment. Fully automatic, it offers complete inspection at any line speed.

X^R Sentry will detect not just metals but is capable of detecting dense contaminants in products such as;

- Glass
- Stone
- Dense Plastic
- Calcified Bone

Loma X^R can also detect metal contaminants that are otherwise hidden by metal foil or film packaging.

As well as outstanding contaminant detection, Loma X^R can simultaneously identify missing items and underweight measures.

Loma's advanced image processing software automatically detects objects of a different density to the standard product and rejects those that are contaminated or incorrect.

Loma's unique adaptive analysis software the X^R can recognise a valid product and adjust itself automatically to the best product setting, eliminating false rejects.

Loma produce a wide range of robust, reliable and user friendly models to meet industry needs, whether for packaged or bulk-fed product.

Loma delivers better, consistent quality to your product and plays a vital role in protecting your brand.



Benefits at a glance:

- **Low cost** Priced more in line with metal detectors than traditional X-ray machines
- **Easy to use** Simple metal detector type control panel, set up in less than 2 minutes
- **Sensitive** Each product independently analyzed with its own inspection profile
- **Multi functional** Missing product, area and volume measurement capability
- **Compact** Standard system length at 1.85m (73")

Benefits of X-ray

The benefits of using X-ray technology versus other inspection technologies are many. X-Ray systems detect numerous dense and dangerous contaminants within the product that are not detectable by other means. Inspection is possible through most metallic packaging materials including cans and aluminum trays.

Simultaneous to contaminant detection, the X-ray image provides data for the analysis of missing items, defective items, low fill scenarios, low mass products, excess products. Multi-zone mass measurement based on density and area criteria, total area inspection, zone area inspection, and incorrect count.

The installation of an X-ray system will also eliminate numerous issues normally associated with metal detection technology such as vibration, interference, product effect, loop effect, wire effect, the requirement of metal free zones and the need for specific aperture sizes and frequencies for maximum detection performance of a specific product. Simultaneously, the technology can improve upon checkweighing performance in specific applications by 'weighing' defined zones within the package itself rather than weighing the entire package. All of this analysis can be accomplished at scan rates up to 2500 times per second or in excess of 1,000ppm on some models within the range.

Finally, remember first class after sales support is key to success. Training at the time of installation, spare parts availability, regional support, cross trained technicians, and help lines must be considered as part of the purchase.

Technical Specification

- Embedded processor
- Backlit LCD touch screen controls
- Auto set up
- Self diagnostics
- Scaleable High Gain array
- 0.8mm x 0.8mm diode array
- High performance and efficient, variable power, X-ray
- Totally integrated and modular system with standard off the shelf components
- Complies fully with radiation emission standards.
- Air cooled and temperature monitored X-ray tube
- 10 - 70m/min (30 - 230ft/min) variable speed belt .

About Spectrum Inspection Systems

Spectrum Inspection Systems is a world class manufacturer of inspection systems for the Cintex and Loma brands, with installations in over 60 countries and in most of the world's largest food and packaging companies.

Spectrum Inspection Systems holds ISO 9001 certification and has earned a reputation for the consistent quality and advanced technology of its products, the results of a continuous and far-reaching research and development program.

Short lead times, modular design together with our passion for customer service, allow you to:

1. Maximize your production up-time
2. Maintain your self-sufficiency
3. Help your customers comply with and exceed consumer and government demands for product safety.

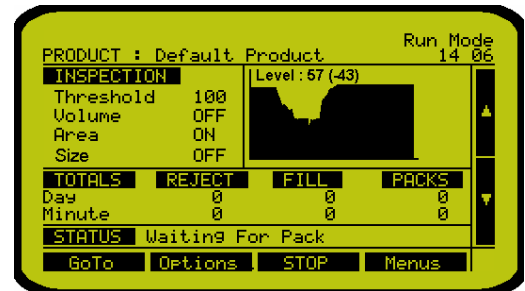


All Spectrum systems are manufactured to the exacting standards of ISO9001 and supported by a world-wide network of sales and service operations

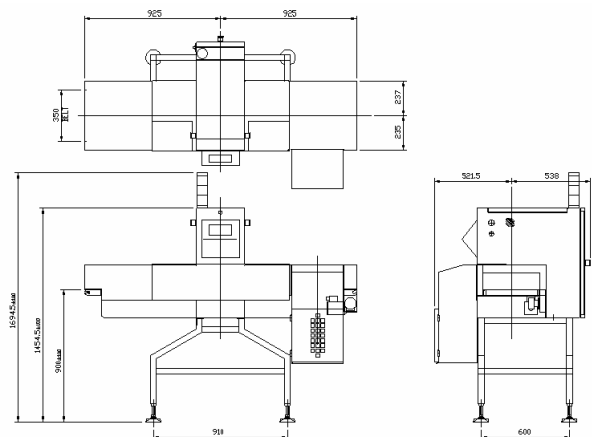
Spectrum reserves the right to improve or change specification without prior notice

Finish:	304 stainless steel with bead blast finish	
Typical Line Height:	900mm ± 50mm	35" ± 2"
System Length:	1,850mm	73"
Belt Width:	300mm	11.8"
Supply Voltages:	110/1ph/60Hz N+E 230/1ph/50Hz N+E	
Air Supply:	5 to 8 bar for reject and (if fitted) vortex (80 to 100 psi)	
Reject Options:	Signal, Air Blast Pusher	
Environment:	IP65 (NEMA 12) with vortex option IP 55 without	
Belt Type:	Flat (food quality) belt	
Standard Inclusions:	50 product memory, Adjustable feet, Variable Speed	
Options:	Bar code scanner for auto set-up, Serial printer port, Survey meter, Lockable wheels, Vortex cooler, Reject and Bin full confirmation	

Typical Screen Shot



System Drawing



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