



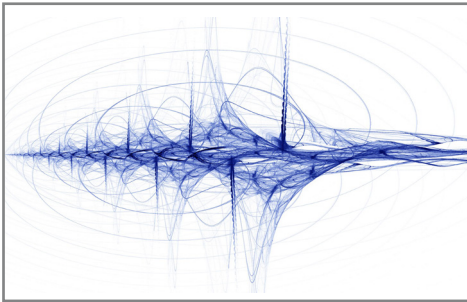
# IQ<sup>3</sup> - Metal Detection Head

Designed for Food & Packaging Industries

The IQ<sup>3</sup> series of variable-frequency detection search heads are designed to inspect products for metal contaminants in the food, pharmaceutical and packaging Industries. They can be purchased as a search head that can be integrated into a larger packaging line or as a standalone conveyor unit with automatic reject stations.

## Product Highlights

- Dual-Line display with KeyPad for easy operation
- IP66 environmental protection for high pressure wash down
- Variable-frequency detection (31KHz to 882KHz)
- Full range of aperture sizes to suit products being inspected
- Multiple product memories for rapid product change over and data storage
- Multilevel passwords protection provides secure access and are logged against events for traceability (CFR21 part11)



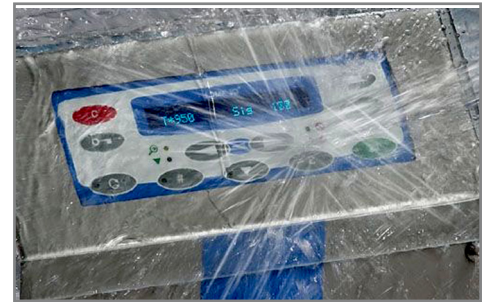
### Variable Frequency Provides the Best Detection Levels

The IQ<sup>3</sup> is built using Loma's revolutionary Variable Frequency technology that allows detection levels to be optimised around a wide range of differing product conditions, including whether they are wet or dry.



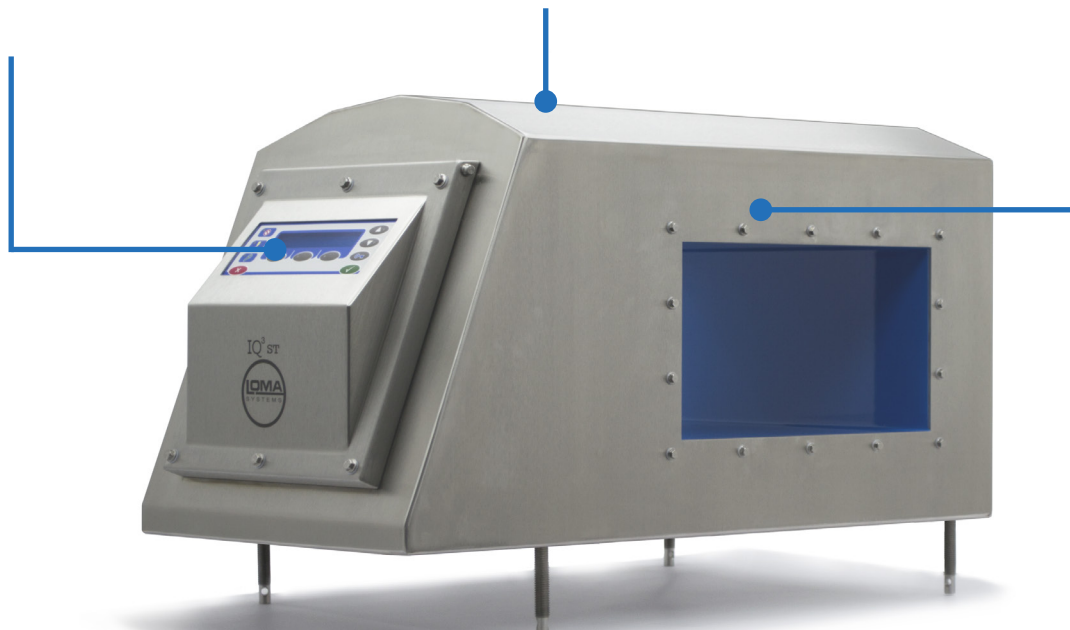
### Product Learn Provides Simple and Fast Set-up

Type in your product details, initiate a learn, and pass a pack several times and the IQ<sup>3</sup> is automatically set-up and ready to inspect for contaminants. Fast, simple and accurate.



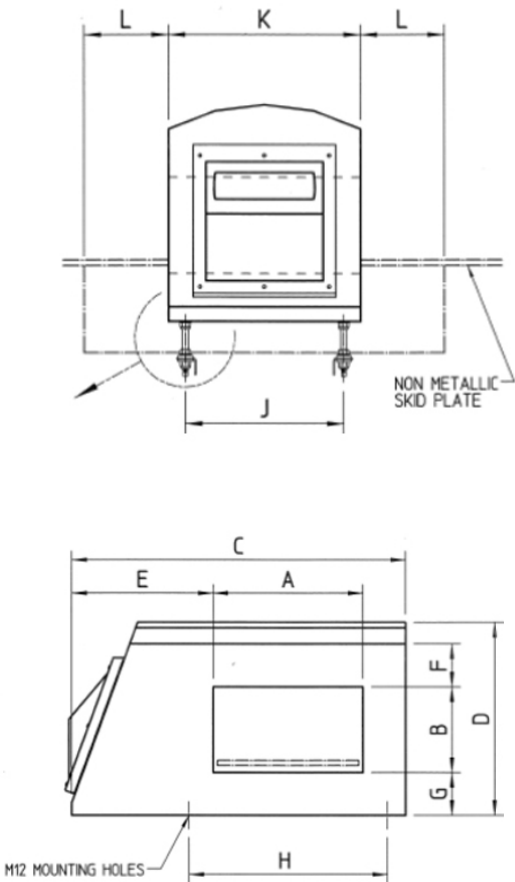
### Robust Food Equipment Design

Built with Loma's "Designed to Survive" design philosophy, the IQ<sup>3</sup> is independently verified with an IP66 rating, meaning it is tough enough for high pressure environments.



Dual-Line Display

# Technical Specification



Material of Construction	304 Brushed stainless steel
True Variable Frequency	31KHz to 882KHz
Supply Voltages	110 - 250V AC 50/60Hz
Power Consumption	20VA
Temperature Range	-10°C TO + 35°C (14°F to 95°F)
Humidity	0 to 95% Relative Humidity (Non-condensing)
Environment	IP66
PVS Enabled	Yes
Ethernet Capability	Yes (Additional Hardware Required)
USB Capability	No

## Head Dimensions

Dimension A = Aperture Width  
Dimension B = Aperture Height

B	75	100	125	150	175-250	275-350	375-450
C	A+430	A+430	A+430	A+430	A+430	A+530	A+670
D	392.5	392.5	392.5	400	B+250	B+350	B+450
E	330	330	330	330	330	380	470
F	125	112.5	100	100	100	150	200
G	142.5	130	117.5	100	100	150	200
H	A+114	A+114	A+114	A+114	A+114	A+114	A+114
J	230	230	230	230	330	430	530
K	300	300	300	300	400	500	600
L	75	75	75	75	175	275	350

## Other Features

- Rugged construction using brushed 304 stainless steel
- Unique clam-shell designed case and coil geometry that delivers unsurpassed levels of immunity
- Fully integrated Performance Validation software
- 32-bit digital signal processing for enhanced contaminant detection
- Can be integrated into a conveyor system to achieve High Compliance Retail Specification



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