IQ^{3+E} - Metal Detection Head

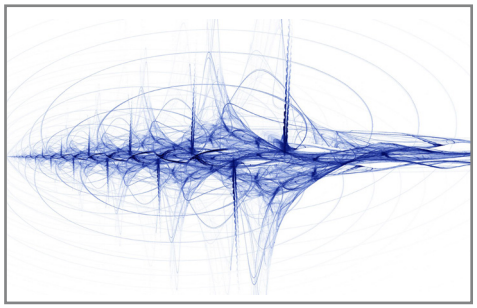
Designed for Food & Packaging Industries

Metal Detection

The IQ^{3+E} 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.

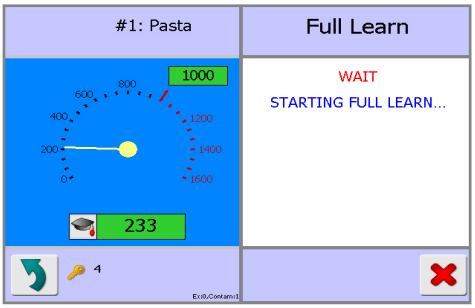
Product Highlights

- Multilingual colour Touchscreen complete with Icon Driven Menu's for easy operation
- IP69K environmental protection (including liner and cover) suitable for both high-care and low-care environments
- 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
- Extensive data logging and reporting via USB or Ethernet for HACCP and retail compliance
- Multilevel passwords protection provides secure access and are logged against events for traceability (CFR21 part11)



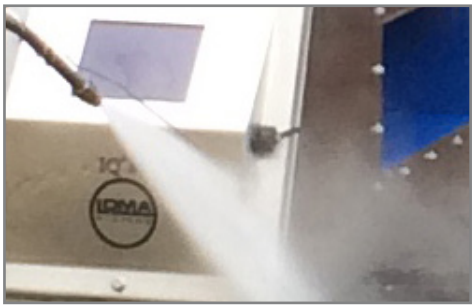
Variable Frequency Provides the Best Detection Levels

The IQ^{3+E} 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.



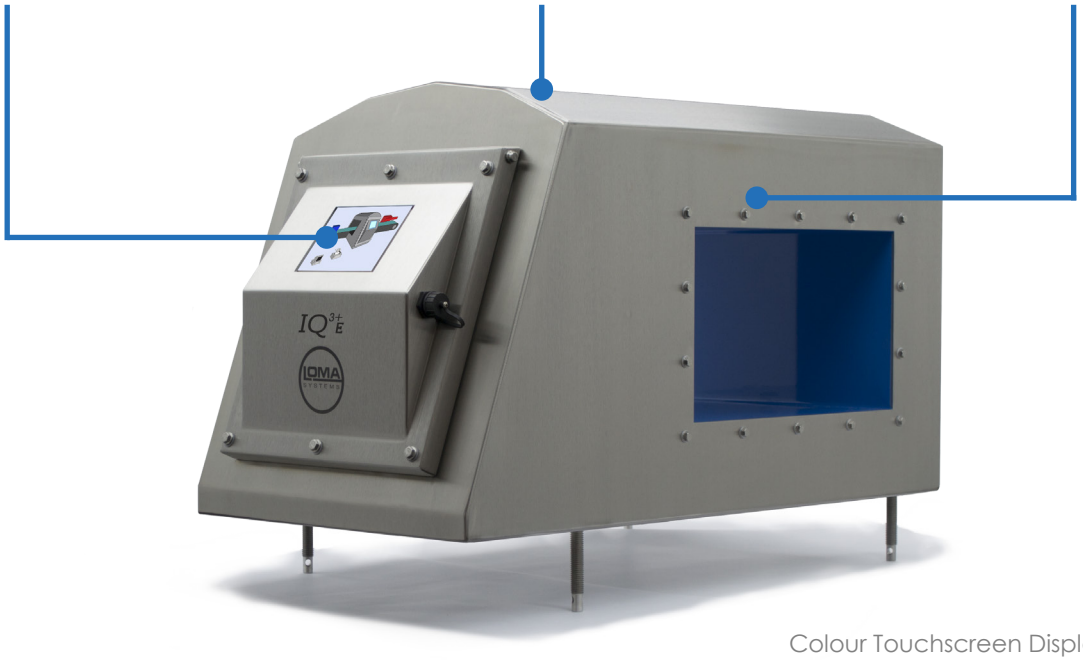
Product Learn Provides Simple and Fast Set-up

Type in your product details, initiate a learn, and pass a pack several times and the IQ^{3+E} is automatically set-up and ready to inspect for contaminants. Fast, simple and accurate.



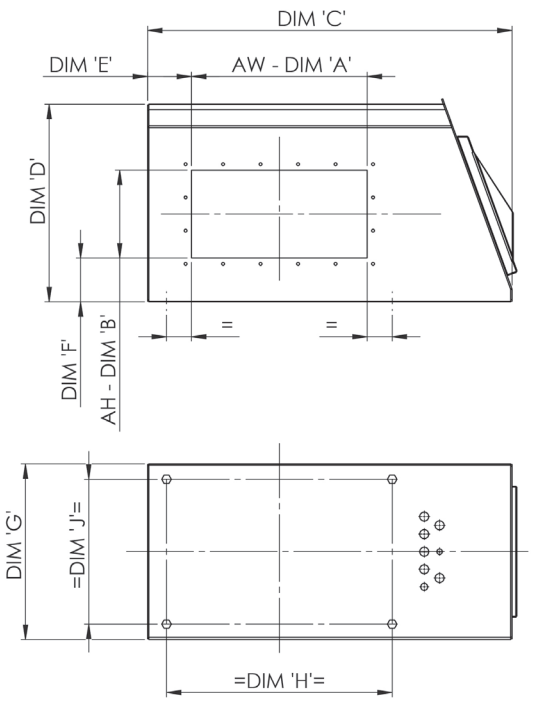
Robust Food Equipment Design

Built with Loma's "Designed to Survive" design philosophy, the IQ^{3+E} is independently verified with an IP69K rating, meaning it is tough enough for wash-down in high-care environments.



Colour Touchscreen 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	IP69K
PVS Enabled	Yes
Ethernet Capability	Yes
USB Capability	Yes

Head Dimensions

Dimension A = Aperture Width
Dimension B = Aperture Height

Dim's																				
B	**75**	**100**	**125**	**150**	**175**	**200**	**225**	**250**	**275**	**300**	**325**	**350**	**375**	**400**	**425**	**450**	**475**	**500**	**525**	**550**
C	AW + 430	AW + 430	AW + 430	AW + 430	AW + 430	AW + 430	AW + 430	AW + 430	AW + 530	AW + 530	AW + 530	AW + 530	AW + 670	AW + 670	AW + 670	AW + 670	AW + 810	AW + 810	AW + 810	AW + 810
D	392,5	392,5	392.5	400	425	450	475	500	625	650	675	700	825	850	875	900	1025	1050	1075	1100
E	100	100	100	100	100	100	100	100	150	150	150	150	200	200	200	200	250	250	250	250
F	142.5	130	117.5	100	100	100	100	100	150	150	150	150	200	200	200	200	250	250	250	250
G	300	300	300	300	400	400	400	400	500	500	500	500	600	600	600	600	700	700	700	700
H	AW + 114	AW + 114	AW + 114	AW + 114	AW + 114	AW + 114	AW + 114	AW + 114	AW + 114	AW + 114	AW + 114	AW + 114	AW + 114	AW + 114	AW + 114	AW + 114	AW + 114	AW + 114	AW + 114	AW + 114
J	230	230	230	230	330	330	330	330	430	430	430	430	530	530	530	530	630	630	630	630

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

Loma Systems is a registered trademark of Illinois Tool Works Inc. (ITW). Other names, logos, icons and marks identifying our products and services referenced herein are trademarks of ITW and may not be used without the prior written permission of ITW. Other product and company names listed are trademarks or trade names of their respective companies. Copyright © 2016 Illinois Tool Works Inc. All rights reserved. All of the specifications shown in this document are subject to change without notice.