IQ4M - Rectangular Metal Detector Search Head
Designed for Food & Packaging Industries

The new IQ4M Multi-Spectrum, Variable Frequency metal detector search head is designed to inspect products for metal contaminants in the food and packaging industries. It 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.
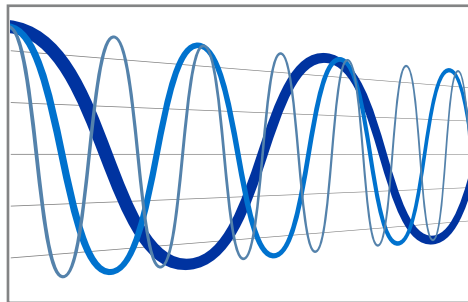
Product Highlights

- Multi-Spectrum detection exposes smaller contaminants across a wider range of metal types.
- Variable frequency technology provides the optimal contaminant detection performance for even difficult to handle metallized film packaging by ensuring the best frequency band is used for each product.
- RFID tag login for user accounts provide secure access to functions critical to each level (Operator, Supervisor, Quality and Engineer).
- OPC-UA communication offers improved data exchange for a wide range of system statistics.
- Improved frequency first auto-learn feature rapidly delivers great detection sensitivities out of the box and provides more line uptime than ever before.
- Faster recovery times from large contaminant detection & moving product to product reduces false positives, improving operational efficiency.
- Improved hardware noise suppression, gain balancing, and on-board fine tuning tools including DDS+ further help to improve detection.
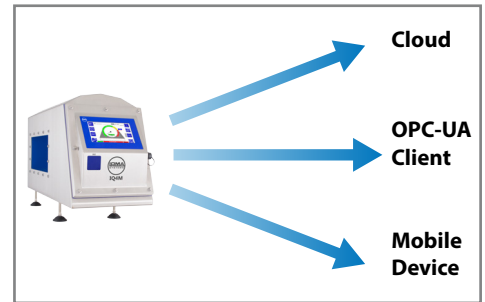
Enhanced Machine Security
Login via **programmable RFID tags** provides enhanced security and traceability, as well as speeding up the log in process.

Multi-Spectrum Detection
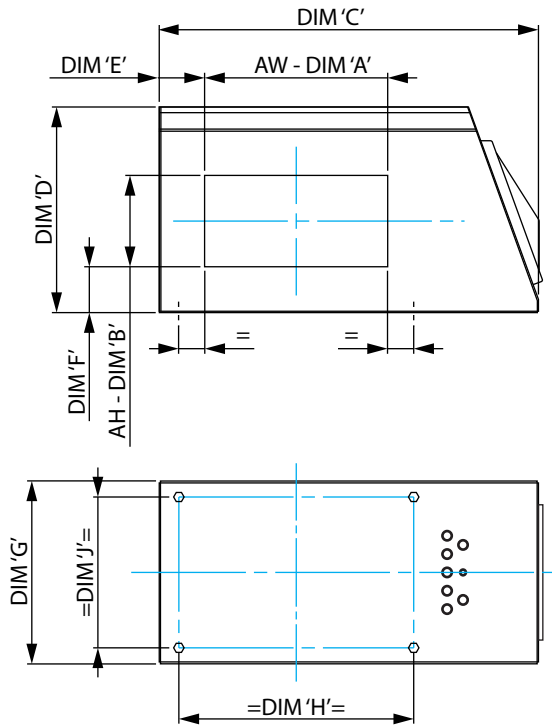Detect smaller contaminants across a wider range of metal types with **Multi-Frequency Scanning**.

Improved Data Exchange
Communicating via the **OPC-UA** standard, the IQ4M offers **Industry 4.0 connectivity** with simplified data exchange.

Cloud

OPC-UA Client

Mobile Device

Technical Specification

Material of Construction	304 Brushed stainless steel
True Variable Frequency	34 to 1200 kHz
Supply Voltages	85 to 265 V, single phase 50/60 Hz, neutral & Earth
Power Consumption	20 VA
Temperature Range	-10 to + 40 °C (14 to 104 °F)
Humidity	0 to 95 % Relative Humidity (Non-condensing)
IP Rating	IP69
PVS Enabled	Yes
Ethernet Capability	Yes, OPC-UA, LomaData or TRACS
USB Capability	Yes
RFID Compatibility	13.56 MHz - High Frequency

Dimension A = Aperture Width
Dimension B = Aperture Height

Head Dimensions

Preferred Aperture Width 'A'	250, 350, 450, 550, 650, 750, 850, 950, 1050, 1150, 1250									
Preferred Aperture Height 'B'	100	150	200	250	300	350	400	450	500	550
C	A + 430				A + 530		A + 670		A + 810	
D	392,5	400	450	500	650	700	850	900	1050	1100
E	100				150		200		250	
F	130	100			150		200		250	
G	300		400		500		600		700	
H	A + 114									
J	230		330		430		530		630	

All dimensions in mm. The table shows the most common aperture widths and heights only, and please note that not all aperture heights are available with the aperture widths stated. Other sizes, including custom sizes are available depending on your application. Please consult your local representative for any further information.

Other Features

- Full range of aperture widths and heights to suit products being scanned.
- 7" colour touchscreen with intuitive graphical user interface delivers easy setup and detection diagnostics.
- Rugged construction using brushed 304 stainless steel.
- Unique clam-shell designed case and coil geometry that delivers unsurpassed levels of immunity.
- Extensive data logging and reporting via USB or Ethernet for HACCP and retail compliance.
- 32-bit digital signal processing for enhanced contaminant detection.
- Can be integrated into a conveyor system to achieve Full Compliance Retail Specification.
- For horizontal mounting. Available in other configurations (including vertical mounting for tall products and with remote control box), please consult your local representative for further details.

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An *ITW* Company
Tel: +44 (0)1252 893300 (UK) | +1-800-872-LOMA (North America)
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