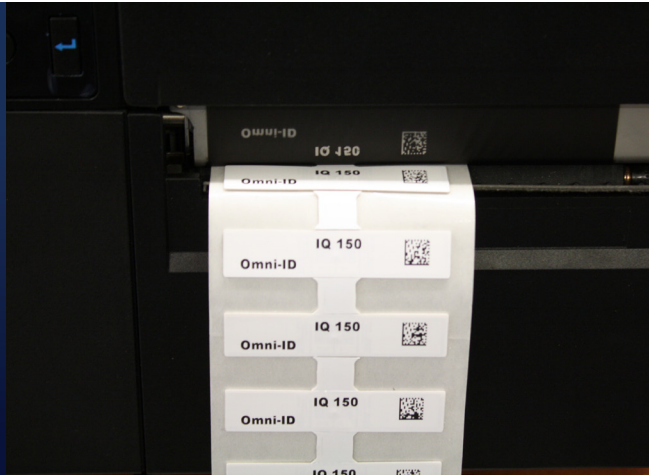# Omni-ID® IQ 150

The IQ 150 Ultrathin labels are designed for on metal tag functionality, within a small, low profile, easy to deploy label. Optimized for thermal barcode printers, the Omni-ID IQ 150 enables low cost and hassle-free RFID deployment. The Ultrathin labels redefine the standard for repeatability for on and off metal tagging applications demanding a very small low profile tag.

Applications

With innovative construction and excellent thermal barcode printer compatibility, the Omni-ID IQ 150 label is ideal for hassle free deployment of indoor asset management applications such as:

▸ IT, office, hospital and laboratory asset tracking

▸ Weapons, pipes, and road signs

▸ Warehouse management

RF Specifications

Protocol	EPC Class 1 Gen2v2
Frequency Range (MHz)	866-868 (EU) 902-928 (US)
Material Compatibility* With ground plane Without ground plane	Optimized for all materials Suitable for bare aluminum

*See IQ On-Metal Labels User Guide for further detail.

Physical Specifications

Material	White synthetic label
Size (mm)[1]	55.0 x 12.5 x 1.3 with ground plane 55.0 x 12.5 x 1.2 without ground plane
Size (in)[1]	2.17 x 0.49 x 0.05 with ground plane 2.17 x 0.49 x 0.05 without ground plane
Weight (g)	0.25

[1]Product dimensions shown above are the maximum. Batch to batch variation could be within 5%. Unspliced sections will be within 0.2mm tolerance.

IC Types

Read Range with ground plane	Impinj Monza R6-P (standard)	Impinj Monza 4QT (custom option)
Fixed Reader[1]	Up to 1.6	Up to 1.3
Handheld Reader[1]	Up to 1.0	Up to 1.0
Memory[2,3]	EPC - 128(96) bits User - 32(64) bits Unique TID - 48 bits	EPC - 128 bits User - 512 bits Unique TID - 48 bits

[1]Quoted performance achieved using standard testing methodology on Aluminium test plates. Read range is dependent on multiple factors such as; RFID reader transmit power and receiver sensitivity, asset material and environment. Please see the Omni-ID On Metal Labels User Guide for more detail.

[2] EPC and User memory are reprogrammable. UTID is locked at point of manufacture by IC manufacturer.

12.5mm

55mm

1.1mm

Dimensions stated in mm
Supply format = 1000 labels per roll

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Related Products and Services

▶ **Omni-ID IQ 100 –** First to market, global, small form factor tag optimized for thermal barcode printers.

▶ **Omni-ID IQ 600 –** Ultrathin label providing on metal tag functionality, low cost and hassle free deployment.

▶ **Omni-ID IQ 800P -** Large premium label for plastic assets

▶ **Service Bureau –** Omni-ID offers a full service bureau for printing and pre-encoding Omni-ID tags at point of manufacture.

Environmental Specifications

Operation Temperature [1]	-40 to +85°C
Max Temperature Exposure [1]	-40 to +85°C
Application Temperature[1]	+18 to +35°C
IP Rating	IP68
Attachment	Self-adhesive suitable for curved surfaces to a minimum radius of 58mm
Certifications CE RoHS	RoHS approved CE approved
Printer compatibility[2,3]	Sato, Zebra, Honeywell
Warranty	1 year

1. Excludes adhesive options, consult adhesive data sheets for recommended temperature ratings.
2. Omni-ID labels are compatible with many leading printers. Contact us for more detail.
3. See Omni-ID printer guides for details on calibrating and operation.

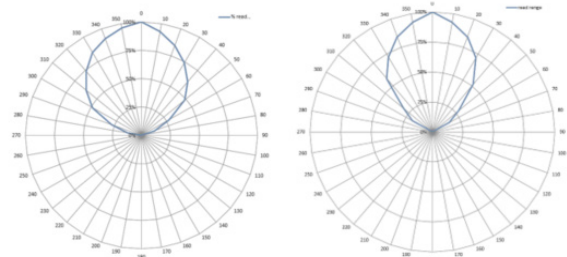See the **IQ On Metal Labels User Guide** for details on available IC & Ground Plane product options.

SATO   ZEBRA   Honeywell
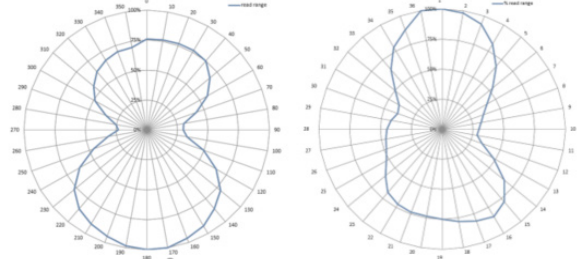
Omni-ID office locations: **US | UK | China | India | Germany**

For product or technology inquiries email: sales@omni-id.com

Radiation Patterns

On Metal

On Liquid

Ordering Information

Order Numbers	125 – EU, US with Monza R6-P 132 – EU, US with Monza 4QT(custom)	
Order Options:	:303 Customization - 4 color static print :315 Overlamination :329 Without ground plane :701 (Standard Service Bureau)	
Supply Format	1000 labels per roll	
Minimum Order Quantity	R6-P	M4QT(custom)
Standard label	1,000 labels	10,000 labels
Service bureau	1,000 labels	10,000 labels
Customization	10,000 labels	10,000 labels
Overlamination	10,000 labels	10,000 labels