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MDR-4343 **Desktop Reader**

The only RFID technology you don't have to work around

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MDR-4343 Desktop Reader

The MDR-4343 is a desktop reader with a 3D reading surface for reading all types of deeply stacked PJM tags with 100% accuracy. It includes a patented tag location function for resolving the location of any specific tag in a stack of tagged items. Fan assisted cooling of the reader guarantees that the reading surface temperature is never higher than the ambient room temperature.

The MDR-4343 is designed for diamond and precious gem tracking, pathology sample tracking and blood donation tracking where stacking, high speed and 100% accuracy are essential. It is suitable for any application where tightly packed tagged items need to be read and/or written to at high speed, irrespective of their orientation and with 100% accuracy.

ELECTRICAL		<ul style="list-style-type: none"> ✓ Performs read and write operations ✓ No manual calibration needed ✓ Automatic tuning ✓ Readers can be placed in close proximity to one another ✓ RFID field unaffected by liquids ✓ Can read tags with as little as 0.1mm separation ✓ RFID tags can be presented in any orientation ✓ Safe to use in medical applications 	
Operating Frequency	13.56 MHz		
ISO/IEC Compliance	18000-3 Mode 2		
Command Data Rate	424 kbit/s		
Reply Data Rate per Channel	106 kbit/s		
Number of PJM Reply Channels	2		
Number of Axis	3		
Power Supply	12VDC		
DC Power Supply Connector	2.5 mm DC centre pin positive		
Mains Input	100 - 240 VAC @ 50/60 Hz		
Mains Connector	IEC 320/C14		
Power Consumption	35W		
PERFORMANCE		CERTIFICATIONS	
RFID field produced	3D	USA	Complies with FCC Part 15 Low Power Communication Device
Operating Range	Marked read/write area	Australia	AS/NZS CISPR 32(2015), EN55022, AS/NZS 4268 (2017), AS/NZS 60950, RPS3 (ARPANSA), RCM
Line Reading (MLC 6 onwards)	Can identify tags within the marked line reading area	Europe (CE Mark)	EN55022 Class B, EN 301 489-1 V1.6.1, EN 301 489-3 V1.4.1, EN 61000-3-2, EN 61000-3-3, EN 61000-4-2, EN 61000-4-4, EN 61000-4-5, EN 1000-4-6, EN 61000-4-11, EN 60950.1, EN 300 330 V2.1.1, EN50364, EN50357, ROHS
Fan cooled (MLC 6 onwards)	Cooling fans ensure safety around temperature sensitive biological material	Japan	MIC/KS: AC-15047.
Identification rate with 100% accuracy	Up to 150 tags/s	India	App NO: NR-ETA/2066
Identify & read 96 bits of data with 100% accuracy	up to 100 tags/s	MECHANICAL	
Identify, write & read 96 bits of data with 100% accuracy	up to 50 tags/s	External Dimensions (L x W x H)	440 x 294 x 84 mm
HOST		Net Weight	6.75 Kg
Host Interface	USB and Ethernet (Ethernet cable must be shielded (CAT 5/6))	Net Volume	0.0109 m ³
Host Computer	Windows 10 or later	Shipping Dimensions (L x W x H)	525 x 355 x 155 mm
SOFTWARE		Shipping Weight	8.16 Kg
Firmware Reader Server	3.48.7 or later	Shipping Volume	0.0289 m ³
ENVIRONMENT		 	
Operation environment	Indoor use	Dimensions (mm) Back view	Dimensions (mm) Side view
Temperature Range	0°C to +45°C		
Humidity	10% to 80% (non-condensing)		