

DESKTOP READER | MDR-4330AT



Overview

The MDR-4330AT desktop reader reveals SATO's breakthrough 3 dimensional antenna technology, allowing full orientation insensitive read and write capability. Large numbers of tagged items can be quickly and accurately identified, regardless of how they are positioned on the reader surface.

This standalone device is fitted with full ferrite shielding and uses field cancellation techniques to ensure there is no operational interference from surrounding objects (such as metal shelving or other electronic equipment) and will not interrupt operation of any other sensitive equipment nearby.

The MDR-4330AT is supplied with ReaderManager software which provides a platform for reader setup, configuration, demonstrations, testing and application development. With the ability to read thousands of tags in seconds the unit is easy to set-up and start using straight away.

The MDR-4330AT has been adopted successfully into diamond and precious gem tracking. Pathology laboratories also utilise the reader for sample tracking and traceability. It is suitable for any application where many tightly packed tagged items need to be read and written to quickly and accurately.



FEATURES AND BENEFITS

- » 3 Dimensional antenna function allowing tags to be read in any orientation
- » Sturdy benchtop design with full ferrite shielding and field cancellation to eliminate interference
- » Large read area capable of reading hundreds of tags per second - quickly and accurately
- » Easy to set-up and use straight out of the box

SPECIFICATIONS

Electrical	
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 External Antennas	N/A
Number of Axes	3
Operating Range	Marked read/write area
Compatible Single Axis Antennas	N/A
Antenna Cable Length	N/A
Dedicated I/O	N/A
I/O Connector	N/A
Power Supply	12VDC
DC Power Supply Connector	2.5 mm DC centre pin positive
Mains Input	110 - 240 VAC @ 50/60 Hz
Mains Connector	IEC 320/C14
Power Consumption	42 W
Performance	
Tag Type	Refer Tag Reference Table
Identification rate at 100% accuracy	up to 150 tags/s
Identify & read 96 bits data at 100% accuracy	up to 100 tags/s
Identify, write & read back 96 bits data at 100% accuracy	up to 50 tags/s
Host	
Host Interface	USB and Ethernet (Ethernet Cable must be CAT 5 and shielded)
Minimum Host Computer Requirement	Windows XP SP2/ 500 MHz CPU/ 128MB RAM
Software	
Minimum Firmware Reader Server	Version 3.42.8
Environmental	
Operation environment	Indoor use
Temperature range	0°C to +45°C
Humidity	10% to 80% (non-condensing)
Mechanical	
External Dimensions (L x W x H)	440 x 290 x 84 mm
Internal Aperture	N/A
Net Weight	7.85 kg
Net Volume	0.00074 m ³
Shipping Dimensions (L x W x H)	520 x 380 x 170 mm
Shipping Weight	8.56 kg
Shipping Volume	0.034 m ³

Certifications	
USA	Complies with FCC Part 15 Low Power Communication Device
Europe (CE Mark)	EN55022, 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 61000-4-6, EN 61000-4-11, EN 60950.1, EN 300 330-1 V1.3.1, EN 300 330-2 V1.3.1, EN 50364, EN 50357, RoHS
Australia	AS/NZS CISPR 22(2006), EN55022, AS/NZS 4268 (2003), AS/NZS 60950, RPS3 (ARPANSA)
General	
Read and write operations	Yes
No manual calibration needed	Yes
Automatic tuning	Yes
Readers can be placed in close proximity to one another	Yes

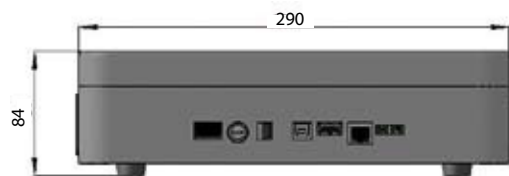


Figure 1. Dimensions (mm) back view

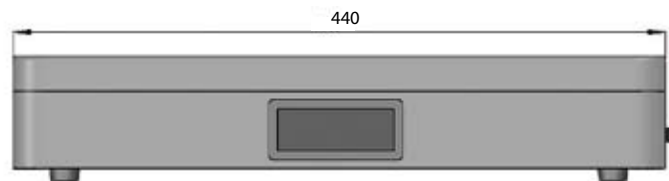


Figure 2. Dimensions (mm) side view

SATO VICINITY PTY LTD

8 Guihen Street, Annandale, NSW 2038

Tel: +61 2 9562 9800

Fax: +61 2 9518 7620

Email: contact@satovicinity.com

Website: www.satovicinity.com