

DATAMAN 262 ULTRA HIGH DEFINITION BARCODE READER

High performance reader for ultra-small direct part mark (DPM) barcodes



In today's innovative electronics and medical device industries, parts and components are increasingly getting smaller. With little surface on which to mark 2-D codes for identification and tracking purposes, the size of direct part mark (DPM) code cells often end up being 1 mil (25 μm) in size or less.

To reliably image and decode these ultra-small 2-D barcodes, companies have traditionally used large systems comprised of many individual components such as a high resolution barcode reader, an expensive telecentric lens and an external light. The cost, setup and footprint of these systems is often not feasible.

Enhanced solution for reading ultra-small 2-D codes

The DataMan 262 Ultra High Definition (UHD) fixed-mount barcode reader is designed to read the smallest, well-marked 2-D DPM 0.7 mil (18 μm) codes. Advanced algorithms such as 2DMax[®] with PowerGrid[™] technology decode damaged or poorly printed codes, even with quiet zone violations, or missing finder and clocking patterns.



No finder pattern



No clocking pattern



Violation of quiet zone

Compact size with integrated lighting and optics

The DataMan 262 UHD barcode reader is an all-in-one ultra-high definition solution with a compact footprint, eliminating the need for larger, more expensive systems. Powerful and integrated lighting and optics deliver the highest image resolution and quality for reliably reading the smallest 2-D codes.

Easy setup and operation

Setup is quick and easy with automatic tune and trigger buttons, and Ethernet or RS-232 communication options. Additionally, the small size of the reader allows installation in tight application spaces.

All-in-one solution

The DataMan 262 UHD barcode reader features advanced decoding algorithms, integrated lighting and optics, automatic tune and trigger buttons, and standard Ethernet and RS-232 communication protocols.

Tune and trigger buttons expedite setup and configuration

Measures 142 mm x 78 mm for small application spaces



Integrated on-axis and low-angle illumination

Powerful optics to read the smallest 2-D DPM codes down to 0.7 mil (18 µm)

SPECIFICATIONS

1-D Codes	Yes
2-D Codes	Yes, down to well-marked 0.7 mil (18 µm) size
Algorithms	1DMax [®] with Hotbars [®] II and 2DMax with PowerGrid
Image Resolution	1280 x 1024
Image Sensor	1/3 inch CMOS
Working distance	30 mm
Field of view	7.0 mm x 5.3 mm
Minimum module size	0.7 mil (18 µm)
Acquisition	Up to 60 full images/sec
Max Decode Rate	Up to 45 reads/sec
Lens Options	25 mm, f/6.0
Trigger and Tune Buttons	Yes, quick setup intelligent tuning
Discrete Inputs	2
Discrete Outputs	4
Status Outputs	5 status LEDs
Lighting	On-axis (bright field) and off-axis (low angle dark field)
Communications	Ethernet with industrial protocols, RS-232
Power	24 VDC +/- 10%
Power Consumption	<3.0 W (external power)
Material	Aluminum and polycarbonate
Weight	142 g
Dimensions	142 mm x 78 mm
Operating Temperature	0 °C–40 °C (32 °F–104 °F)
Storage Temperature	-10 °C–60 °C (-14 °F–140 °F)
Operating and Storage Humidity	<95% (non-condensing)
Protection	IP40
RoHS Certified	Yes
Approvals (CE, UL, FCC)	Yes
Operating System	Windows [®] 7 and 10

COGNEX

Companies around the world rely on Cognex vision and barcode reading solutions to optimize quality, drive down costs and control traceability.

Corporate Headquarters One Vision Drive Natick, MA 01760 USA

Regional Sales Offices

Americas

North America +1 844-999-2469
Brazil +55 (11) 2626 7301
Mexico +01 800 733 4116

Europe

Austria +49 721 958 8052
Belgium +32 289 370 75
France +33 1 7654 9318
Germany +49 721 958 8052

Hungary +36 30 605 5480
Ireland +44 121 29 65 163
Italy +39 02 3057 8196
Netherlands +31 207 941 398
Poland +48 717 121 086
Spain +34 93 299 28 14
Sweden +46 21 14 55 88
Switzerland +41 445 788 877
Turkey +90 216 900 1696
United Kingdom +44 121 29 65 163

Asia

China +86 21 6208 1133
India +9120 4014 7840
Japan +81 3 5977 5400
Korea +82 2 539 9980
Singapore +65 632 55 700
Taiwan +886 3 578 0060

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