

2D IMAGING TECHNOLOGY

The popularity of reading barcodes off of smartphone and loyalty cards has spread across all market segments of the data capture industry. Now, with more affordable pricing and virtually no drawbacks with area imaging technology, 2D barcode scanners are in high demand as businesses begin to futureproof their scanning technology and optimize their marketing capabilities with QR and other 2D barcodes.

PERFECT FOR MULTIPLE INDUSTRIES

The S2-2D imager was specifically created to address the needs of customers in retail, manufacturing, logistics, hospitality, and warehousing. Built with omnidirectional reading and an ergonomic design, the performance is unmatched at the affordable price point.



NEW ILLUMINATION AND AIMING SYSTEM

Ideally suited for applications at the point-of-sale (POS), the S2 imager features an LED aiming system that is aimed at reducing eye fatigue on the operator during daily scanning activities. It consists of a soft, dark red illumination combined with two blue LED triangles pointing at the targeted bar code. The result is a precise aiming system which contributes to low eye fatigue while still allowing top operator efficiency.

READING CAPABILITY

The S2 imager reads typical printed linear barcodes as well as complex 2D barcodes displayed on the screen of a mobile device or loyalty card. The S2 imager provides a fast, precise and reliable scan.

Imaging technology meets or exceeds standards compared to laser scanners and provides additional advantages of a lower cost-of-ownership and greater product reliability over the long term.

FEATURES	INDUSTRY APPLICATIONS
<ul style="list-style-type: none"> • Reads linear or 2D barcodes off of smartphones and loyalty cards • Omnidirectional reading • Green Spot technology for good-read feedback • Reduced operator stress with LED-based aiming system • IP42 water and particulate sealing rating • Withstands repeated drops from 5 feet onto a concrete surface • Advanced motion tolerance optics 	<ul style="list-style-type: none"> • Retail (Point of Sale) • Hospitality (Point of Sale) • Light Manufacturing (Work-in-process) • Logistics (Shipping/Receiving) • Warehouse (Inventory Control) • Postal, Banks, Public Administration, Utilities (Asset Tracking)

TECHNICAL SPECIFICATIONS

DECODING CAPABILITY

1D / LINEAR CODES	Auto discriminates all standard 1D codes including GS1 DataBar™ linear codes.
2D CODES	Aztec Code; Aztec Mesas; Data Matrix; MaxiCode; QR Code, Micro QR Code; China Han Xin Code
POSTAL CODES	Australian Post; British Post; Canadian Post; China Post; Japanese Post; IMB; KIX Post; Planet Code; Postnet; Royal Mail Code (RM4SCC)
STACKED CODES	EAN/JAN Composites; GS1 DataBar Composites; GS1 DataBar Expanded Stacked; GS1 DataBar Stacked; GS1 DataBar Stacked Omnidirectional; MacroPDF; MicroPDF417; PDF417; UPC A/E Composites

ELECTRICAL

CURRENT	Operating (Typical): 140 mA @ 5 VDC Standby/Idle (Typical): 50 mA @ 5 VDC
INPUT VOLTAGE	4.5 - 14 VDC +/- 10%

ENVIRONMENTAL

AMBIENT LIGHT	Up to 86,000 lux
DROP RESISTANCE	Withstands repeated drops from 1.5 m / 5.0 ft onto a concrete surface.
ESD PROTECTION (AIR DISCHARGE)	16 kV
HUMIDITY (NON-CONDENSING)	0 - 95%
PARTICULATE AND WATER SEALING	IP42
TEMPERATURE	Operating: 0 to 50 °C / 32 to 122 °F Storage/Transport: -40 to 70 °C / -40 to 158 °F

INTERFACES

INTERFACES	USB
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PHYSICAL CHARACTERISTICS

COLORS AVAILABLE	Black
DIMENSIONS	16.3 x 9.1 x 4.1 cm / 6.4 x 3.6 x 1.6 in
WEIGHT	145.0 g / 5.11 oz

READING PERFORMANCE

IMAGER SENSOR	Wide VGA: 752 x 480 pixels
LIGHT SOURCE	Aiming: 2 Blue LED's; Illumination: Red LED 610
	650 nm
MOTION TOLERANCE	25 IPS
PRINT CONTRAST RATIO (MINIMUM)	25%
READING ANGLE	Pitch: +/- 65°; Roll (Tilt): +/- 360°; Skew (Yaw): +/- 60°
READING INDICATORS	Beeper (Adjustable Tone and Volume); 'Green Spot' Good Read Feedback LED
RESOLUTION (MAXIMUM)	0.102 mm / 4 mils (Linear Codes)

READING RANGES

TYPICAL DEPTH OF FIELD	Minimum distance determined by symbol length and scan angle. Printing resolution, contrast, and ambient light dependent. Code 39: 5 mils: 0.5 to 15.0 cm / 0.2 to 5.9 in EAN/UPCA: 13 mils: 0.5 to 35.0 cm / 0.2 to 13.8 in PDF417: 6.6 mils: 1.0 to 13.0 cm / 0.4 to 5.1 in Data Matrix: 10 mils: 1.0 to 13.0 cm / 0.4 to 5.1 in
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SAFETY & REGULATORY

AGENCY APPROVALS	The product meets necessary safety and regulatory approvals for its intended use. The Quick Reference Guide for this product can be referred to for a complete list of certifications. Complies to China RoHS; Complies to EU RoHS
ENVIRONMENTAL COMPLIANCE	

UTILITIES

OPOS / JAVAPOS	JavaPOS Utilities are available for download at no charge. OPOS Utilities are available for download at no charge.
REMOTE HOST DOWNLOAD	Lowers service costs and improves operations.

WARRANTY

WARRANTY	5-Year Factory Warranty
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ACCESSORIES



**Stand
(S2-STAND)**



**Cable
(S2-USB)**