

MULTI-PURPOSE USES FOR DIFFERENT APPLICATIONS

The S1 is a multi-purpose 1D linear imager scanner that is ideal for retail, light manufacturing, healthcare, and other industry applications. It is designed as an entry level product created specifically for reading long or truncated barcodes, both of which are commonly encountered.

The S1 imager has a small, lightweight and ergonomic design that is accommodating to high daily usage. It offers excellent reading performance on most 1D barcodes and features a wide scanning angle with an extended scanning line which is perfect for capturing longer and wider barcodes that are typically found on utility bills, mail, and electronic parts.

Additionally, the S1 offers a thinner and brighter scanning line, which allows users to scan at wide angles without having to increase the scanning distance.

VERSATILE SCANNER

While it is not recommended for industrial manufacturing, the S1 has been designed with over-molded rubber to protect the imager if and when it is dropped.

The S1 is capable of withstanding repeated drops from 5 feet onto a concrete surface and maintains an IP42 water and particulate sealing rating.



FEATURES	INDUSTRY APPLICATIONS
<ul style="list-style-type: none"> • Reads linear or most 1D barcodes • Wide angle scanning • Laser-like thin, extended scan line • 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 	<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) • Document/Bill Processing • Banking/Financial Environments • Various Industries (Asset Tracking)

TECHNICAL SPECIFICATIONS

DECODING CAPABILITY

1D / LINEAR CODES	Auto discriminates all standard 1D codes including GS1 DataBar™ linear codes.
POSTAL CODES	China Post
STACKED CODES	EAN/JAN Composites; GS1 DataBar Composites;
	GS1 DataBar Expanded Stacked; GS1 DataBar Stacked; GS1 DataBar Stacked Omnidirectional

ELECTRICAL

CURRENT	Operating (Typical): <180 mA @ 5 VDC Standby/Idle (Typical): <25 mA @ 5 VDC Sleep Mode: USB Suspend (QW2120): <2 mA @ 5 VDC Low Power Mode (QW2170): <6 mA @ 5 VDC
INPUT VOLTAGE	5 VDC +/- 0.5 V

ENVIRONMENTAL

AMBIENT LIGHT	120,000 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)	5 - 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	17.0 x 6.5 x 7.0 cm / 6.7 x 2.5 x 2.7 in
WEIGHT	119.0 g / 4.2 oz

READING PERFORMANCE

LIGHT SOURCE	Red LED 610-650 nm
PRINT CONTRAST RATIO (MINIMUM)	25%
READ RATE (MAXIMUM)	400 reads/sec.
READING ANGLE	Pitch: +/- 65°; Roll (Tilt): +/- 45°; Skew (Yaw): +/- 70°
READING INDICATORS	Beeper (Adjustable Tone); 'Green Spot' Good Read Feedback; Good Read LED; Good Transmission
RESOLUTION (MAXIMUM)	0.102 mm / 4 mils (1D Codes)
FIELD OF VIEW	56° +/- 2°

READING RANGES

TYPICAL DEPTH OF FIELD	Minimum distance determined by symbol length and scan angle. Printing resolution, contrast, and ambient light dependent. 5 mils : 2.5 to 15.0 cm / 1.0 to 6.0 in 7.5 mils : 0 to 24.0 cm / 0 to 9.4 in 10 mils : 0 to 35.0 cm / 0 to 13.8 in 13 mils : 0 to 40.0 cm / 0 to 15.7 in 20 mils : 0 to 60.0 cm / 0 to 23.6 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 list of certifications.
ENVIRONMENTAL COMPLIANCE	Complies to China RoHS; Complies to EU RoHS

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 (-RM models only)

WARRANTY

WARRANTY	3-Year Factory Warranty
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ACCESSORIES



Stand (S1-STAND)



Cable (S1-USB)