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Find the *Motorola / Symbol LS-1220-I300A* at our website: *Click HERE*

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LS 1220
MiniScan Series



Big Performance, Small Size for Fixed-Mount Or Embedded Scanning Applications
The MiniScan™ combines compact, durable construction with Symbol's proven scanning technology for a rugged, reliable fixed-mount scanner that can also be used as an embedded module. Available in standard or long-range working distances for additional flexibility, MiniScan is the right choice for applications requiring accurate unattended automated data entry.

Reliable High Quality Scanning, Low Power Consumption
MiniScan's superior laser performance and sophisticated decoding algorithms assure the highest first-time read rate and accuracy, even on damaged or poorly printed symbols, while decoding all major bar code symbologies. The LS 1220 Series also incorporates Symbol's patented Mylar® scan element. Like a tuning fork, the Mylar scan element resonates at a fixed frequency – creating motion without wear and tear. That translates into reliability that's virtually nonstop.

MiniScan Series scan modules also offer the industry's lowest power consumption – the result of our combination of Solid State Visible Laser Diode and Mylar scan element.

Additional features include RS-232-C output, "scan" and "good decode" LED indicators, bar code programming menus for easy set-up, host and external trigger options, your choice of standard or long-range models and a variety of optional accessories.

Many Uses for MiniScan
Used as fixed-mount, non-contact scanners, LS 1220 modules are ideal for conveyor, library and document tracking applications. MiniScan Series modules are also ideal for embedded applications such as chemical and blood analyzers; automated medical, test and processing equipment; and many other automated data entry devices.

MiniScan Modules: One more big idea in a small package from Symbol Technologies, the world leader in bar code-based data management systems with more than 2.5 million scanners and terminals installed.

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LS 1220 MiniScan Series Specifications

Physical Characteristics

Dimensions:	1.3 in. (33.3 mm) H x 2.13 in. (54.6 mm) W x 2.18 in. (55.9 mm) D
Weights:	LS 1220: 6.5 oz. (184 gm) LS 1220LR: 6.5 oz. (184 gm)
Mounting:	Screw mounting to optional stand or host device
Visual Indicators:	Red scan LED; greed decode LED
Audible Indicator:	Beeper driver output: 2.5 kHz, 50 mA sink
Optional Accessories:	Photo switch trigger; pushbutton trigger, footswitch trigger, handsfree trigger; 5VDC power supply

Performance Characteristics

Light Source:	Visible laser diode operating at ±670 nm
Scan Rate:	36 ±3 scans per second
Optical Resolution:	LS 1220: Element width minimum: .005 in. (.13 mm) LS 1220LR: Element width minimum: .010 in. (.256 mm)
Minimum Print Contrast:	LS 1220: 25% absolute dark/light reflectance at 670 nm LS 1220LR: 50% absolute dark/light reflectance at 670 nm
Decode Capability:	UPC versions A and E, EAN 8 and EAN 13, all supplemental variants; Code 39, Code 39 Full ASCII, Interleaved 2 of 5 (two lengths), Discrete 2 of 5 (two lengths), Code 128, Code 93, MSI Plessey, Codabar
Orientation Tolerance:	Pitch: ±55° minimum; Skew: ±65° minimum Specular Dead Zone: ±2°
Laser Safety:	LS 1220: CDRH Class II Device LS 1220LR: CDRH Class IIIA
Power:	LS 1220: 5 VDC ±5%; 170 mA typical; 47 mA standby LS 1220LR: 5 VDC ±5%; 170 mA typical; 47 mA standby

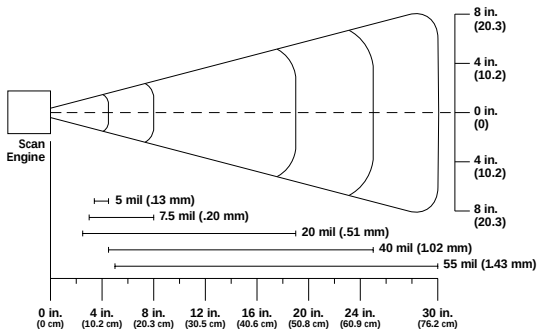
User Environment

Operating Temperature:	-4° to 122°F (-20° to 50°C) Note: Protection circuitry shuts down the laser when case temperature exceeds 122°F (50°C)
Storage Temperature:	-40° to 140°F (-40° to 60°C)
Humidity:	5% to 95% (non-condensing)
Drop:	Repeated 3 ft. drops to concrete
Shock:	1500 G applied via any mounting surface
Ambient Light Immunity:	Artificial: 150 ft. candles; Sunlight: 8,000 ft. candles

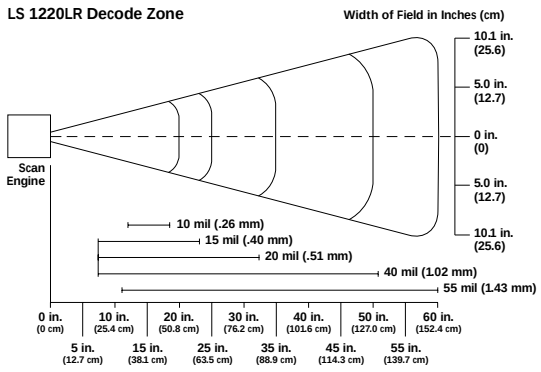
Systems Compatibility

Interface:	RS-232-C

LS 1220 Decode Zone



LS 1220LR Decode Zone



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