

LS 1220



Fixed-Mount or Embedded Scanner

BAR CODE SCANNERS

Big Performance, Small Size for Fixed-Mount or Embedded Scanning Applications

Symbol packs compact, durable construction with proven scanning technology to deliver the LS 1220, a reliable fixed-mount or embedded scanner. The LS 1220 is available in three models for additional flexibility—standard, wide angle (WA), or very high-density (VHD) versions. Featuring a die-cast metal housing with mounting features, the LS 1220 is the right choice for OEM devices requiring accurate unattended automated data entry such as Kiosks, ATMs, and Lottery Terminals.

Reliable High-Quality Scanning, Low Power Consumption

The superior scanning performance and sophisticated decoding algorithms for all major bar code symbologies ensure that the LS 1220 scanners deliver the highest rate of first-time read accuracy. A Mylar® scan element resonates at a fixed frequency for motion without wear and tear. That translates into operation that is virtually nonstop and unmatched in reliability and dependability.

Symbol LS 1220 scanners offer the industry's lowest power consumption—the result of our combination of a Solid State Visible Laser Diode and Mylar scan element. Additional features include RS 232 output, “scan” and “good decode” LED indicators, bar code programming menus for easy set-up, host and external trigger options, your choice of models to best meet your needs, and a variety of optional accessories.

MiniScan Applications

Used as fixed-mount, non-contact scanners, LS 1220 modules are ideal for conveyor, library, and document tracking applications. LS 1220 scan 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 including Lottery Terminals.

Trust Symbol for Fixed Mount or Embedded Scanning Performance

Choose the best scan module for your embedded or fixed-mount OEM solutions—the LS 1220—unmatched in reliability, performance, and durability, and backed by Symbol's global service and support network. For more information about Symbol scan engines, visit www.symbol.com/oem



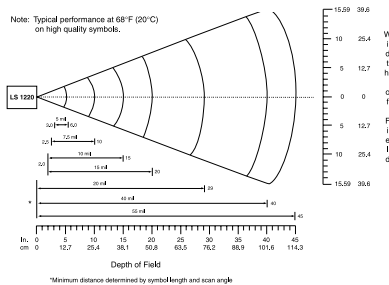
Features	Benefits
Available in standard, wide angle, or very high density versions	Flexible scanning performance for a wide range of applications
Superior scanning performance and sophisticated decoding algorithms	Assures the highest first-time read rate and accuracy, even on damaged or poorly printed symbols
Mylar® scan element	Unsurpassed scanning performance without friction or wear; covered by a lifetime warranty

LS 1220 Specifications

Physical Characteristics	LS 1220	LS 1220WA	LS 1220VHD
Dimensions:	1.3" in. H x 2.13" in. W x 2.18" in. D 3.3 cm H x 5.4 cm W x 5.5 cm D	1.3" in. H x 2.13" in. W x 2.18" in. D 3.3 cm H x 5.4 cm W x 5.5 cm D	1.3" in. H x 2.13" in. W x 2.18" in. D 3.3 cm H x 5.4 cm W x 5.5 cm D
Weight:	6.5 oz (184 gm)	6.5 oz (184 gm)	6.5 oz (184 gm)
Performance Characteristics			
Light Source:	Visible Laser Diode 670 nm	Visible Laser Diode 670 nm	Visible Laser Diode 670 nm
Scan Rate:	35 (± 5) scans/sec (bi-directional)	35 (± 5) scans/sec (bi-directional)	35 (± 5) scans/sec (bi-directional)
Scan Angle:	42° nominal	60° nominal	37° nominal
Scan Patterns:	Linear	Linear	Linear
Print Contrast Minimum:	20% absolute dark/light reflectance differential, measured at 670 nm	20% absolute dark/light differential, measured at 670 nm	40% absolute dark/light differential, measured at 670 nm
Decode Capability:	UPC/EAN, Code 39, Code 39 full ASCII, Code 93, Codabar, I 2 of 5, Code 128, EAN 128, Discrete 2 of 5, MSI Plessey	UPC/EAN, Code 39, Code 39 full ASCII, Code 93, Codabar, I 2 of 5, Code 128, EAN 128, Discrete 2 of 5, MSI Plessey	UPC/EAN, Code 39, Code 39 full ASCII, Code 93, Codabar, I 2 of 5, Code 128, EAN 128, Discrete 2 of 5, MSI Plessey
Programmable Parameters:	Laser on time, Trigger Mode, Bi-directional redundancy, Symbology types/lengths, Data formatting, RS 232 communication parameters	Laser on time, Trigger Mode, Bi-directional redundancy, Symbology types/lengths, Data formatting, RS 232 communication parameters	Laser on time, Trigger Mode, Bi-directional redundancy, Symbology types/lengths, Data formatting, RS 232 communication parameters
Interfaces Supported:	RS 232	RS 232	RS 232
User Environment			
Ambient Light			
Artificial:	150 ft. candles (1,615 lux)	150 ft. candles (1,615 lux)	150 ft. candles (1,615 lux)
Sunlight:	8,000 ft. candles (86,112 lux)	8,000 ft. candles (86,112 lux)	8,000 ft. candles (86,112 lux)
Operating Temperature:	-4° to 122° F (-20° to 50° C)	-4° to 122° F (-20° to 50° C)	-4° to 122° F (-20° to 50° C)
Storage Temperature:	-40° to 140° F (-40° to 60° C)	32° to 104° F (0° to 40° C)	32° to 140° F (0° to 104° C)
Humidity:	5% to 95% noncondensing	5% to 95% noncondensing	5% to 95% noncondensing
Power			
Input Voltage:	5VDC ± 5%	5VDC ± 5%	5VDC ± 5%
Input Current:	170 mA typical	170 mA typical	170 mA typical
Standby Current:	47 mA	47 mA	47 mA
Shock:	1,500 G	1,500 G	1,500 G
Regulatory			
Laser Classification:	CDRH Class II	CDRH Class II	CDRH Class II
Electrical Safety:	UL, VDE, and CUL recognized laser	UL, VDE, and CUL recognized laser component	UL, VDE, and CUL recognized laser component

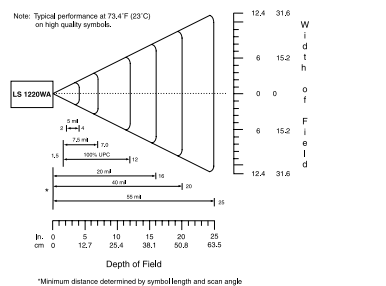
LS 1220 Decode Zone

Note: Typical performance at 68°F (20°C) on high quality symbols.



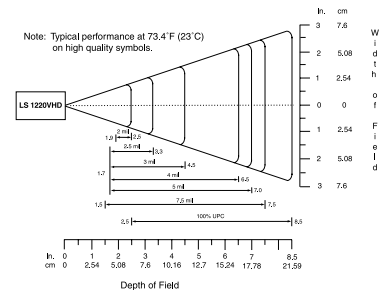
LS 1220WA Decode Zone

Note: Typical performance at 73.4°F (23°C) on high quality symbols.



LS 1220VHD Decode Zone

Note: Typical performance at 73.4°F (23°C) on high quality symbols.



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For system, product or services availability and specific information within your country, please contact your local Symbol Technologies office or Authorized Business Partner.



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