LS 9208

Hands-Free Omnidirectional Projection Scanner

symbol®

Speed and Versatility Combine for Increased Productivity at Checkout

The LS 9208 presentation scanner, from Symbol Technologies, delivers both a high-performance processor and an innovative 100-line rastering omnidirectional scan pattern for increased productivity at checkout, resulting in higher customer satisfaction.

Built for both speed and versatility, the LS 9208 features a small footprint, choice of colors and an optional, adjustable multimount stand that is easily adaptable to many point-of-sale environments, such as:

Environment:	Applications:
Retail (convenience stores, grocery stores, department stores, specialty hard and soft goods stores)	• **Customer checkout** • **EAS tag deactivation** • **Back room applications**
Pharmacies and drug stores	• **Customer checkout** • **EAS tag deactivation** • **Prescription verification** • **Distribution and management of controlled substances**
Other	• **Time and attendance** • **Library** • **Office automation**

Robust New Features Offer Easy Set Up and Reduced Costs

With the 123Scan setup utility, programming and configuring the LS 9208 is made easy and minimizes startup time wherever the scanner is used. What's more, multiple onboard interfaces and universal cables further reduce your inventory requirements. For the most investment protection, the LS 9208 also features built in shock absorption that adds unmatched durability for a scanner in this class. The LS 9208 offers premium features and powerful performance to help you save time and money.

Today's Most Advanced Presentation Scanner from a Global Leader

In many applications, the feature-rich LS 9208 presentation scanner offers aggressive performance, maximum durability and optimal ergonomics to create a more productive POS environment. When you buy the LS 9208, you receive the added assurance of purchasing from Symbol—a company with proven solutions and millions of scanner installations worldwide.

2005 Sunrise Date Compliant

Features	Benefits
High-performance, 100-line rastering omnidirectional scan pattern	Increased productivity for novice and expert users resulting in shorter checkout lines, better customer service
Single line scan pattern	Perfect for reading bar code menus and pick lists
Multiple onboard interfaces	Flexible host connectivity protects your hardware investment
Universal cables	Allows for easy replacement and/or upgrades
Small footprint	Fits into the tightest cash/wrap environment
Adjustable, multimount stand	Optimize operator comfort and efficiency
Built-in shock absorption	Protects scan module assembly increasing durability
Flash memory	Facilitates updates/customization of product in the field
Checkpoint Electronic Article Surveillance (EAS) deactivation option	Integrated antenna saves valuable counter space
Supports 123Scan setup utility	Flexible setup using PC download
Reads Reduced Space Symbology® (RSS)	Compatibility with new symbology leverages your hardware investment
Global Trade Item Number (GTIN) Compliant	Capable of decoding and transmitting 14-digit GTINs, where appropriate
Advanced Data Formatting (ADF)	Enables users to modify data prior to sending to host computer, eliminating costly modifications to the host software

To learn how the LS 9208 presentation scanner can work for you, or to find out more about Symbol's products and solutions, contact us at +1.800.722.6234 or +1.631.738.2400, or visit **www.symbol.com/ls9208**

LS 9208 Omnidirectional Scanner Specification Highlights

Physical Characteristics

Dimensions:	Scanner only: 5.51 in H x 3.49 in W x 2.96 in. D 14 cm H x 8.8 cm W x 7.5 cm D With adjustable stand: 7.18 in H x 4.83 in W x 3.73 in. D/ 18.24 cm H x 12.27 cm W x 9.47 cm D
Weight:	Scanner only: 10.2 oz/320 g With adjustable stand: 21.5 oz/670 g
Power Source:	Power drawn from Host terminal or external power supply; depends on Host type.
Voltage:	5.0 VDC +/- 10%
Nominal Current:	390 mA
Power:	2 Watts
Mounting Options:	Adjustable multi-mount stand
Color:	Cash Register White or Twilight Black

Performance Characteristics

Light Source:	650 nm visible laser diode
Roll (Tilt): [1]	Omnidirectional: 360° Single scan line: +/- 40°
Pitch: [2]	Omnidirectional: +/- 50° Single scan line: +/- 60°
Skew (Yaw): [3]	Omnidirectional: +/- 50° Single scan line: +/- 50°
Print Contrast:	25% minimum reflective difference
Scan Patterns:	Omnidirectional: 20 interlocking lines, 5 scan angles, 4 lines per angle rastering @ 5Hz Single scan line capability
Scan Rate:	Omnidirectional: 1500 scans per second Single scan line: 75 scans per second
Depth of Field:	0-9 in./0-22.9 cm @ 13 mil (100 % UPC/EAN)
Nominal Working Range:	5 mil (38%) 1–2.5 in./2.5–6.4 cm 7.8 mil (60%) 0–6 in./0–15.2 cm 10.4 mil (80%) 0–7.5 in./0–19 cm 13 mil (100%) 0–9 in./0–22.9 cm
Width of Field:	1.6 in./40 mm @ Face 6.7 in./170 mm @ 9 inches
Minimum Resolution:	5 mils
Decode Capability:	UPC/EAN/JAN, UPC/EAN with Supplementals, UCC/EAN 128, Code 128, ISBT 128, Code 39, Code 39 Trioptic, Interleaved 2 of 5, Discrete 2 of 5, Code 93, Code 11, Codabar, MSI, RSS variants
Interfaces Supported:	USB, RS232, IBM® 468X/9X, Keyboard Wedge, Wand and Synapse™ (allows connectivity to virtually every POS host type)

User Environment

Operating Temperature:	32° to 104°F/0° to 40°C
Storage Temperature:	-40° to 158°F/-40° to 70°C
Humidity:	5% to 95% noncondensing
Drop Specifications:	Withstands repeated 4 ft/1.2 m drops to concrete
Ambient Light Immunity:	Immune to normal artificial indoor and natural outdoor (direct sunlight) lighting conditions. Fluorescent, Incandescent, Mercury Vapor and Sodium Vapor: 450 ft-candles (4,844 LUX) Sunlight: 8,000 ft-candles (86,111 LUX)
EAS Support:	Optional Checkpoint Electronic Article Surveillance EAS

Regulatory

Electrical Safety:	Certified to UL 1950, CSA C22.2 No. 950 EN60825
Laser Safety:	CDRH Class IIa Laser Product IEC 60825 Class 1 Laser Product
EMC:	CISPR B, FCC B

Warranty

The Symbol LS 9208 Omnidirectional scanner is warranted against defects in workmanship and materials for a period of 30 months from date of shipment, provided that the product remains unmodified and is operated under normal and proper conditions. See the complete warranty for details.

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LS 9208 Decode Zone

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

Depth of Field

*Minimum distance determined by symbol length and scan angle

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1. Roll (Tilt): Controlled by rotating the wrist clockwise or counter-clockwise
2. Pitch Controlled by dropping or raising the wrist
3. Skew (Yaw): Controlled by rotating the wrist from left to right or vice versa
The above performance characteristics refer to 100% UPC bar code at 80% contrast located at 4 in./10 cm from nose of the scanner.
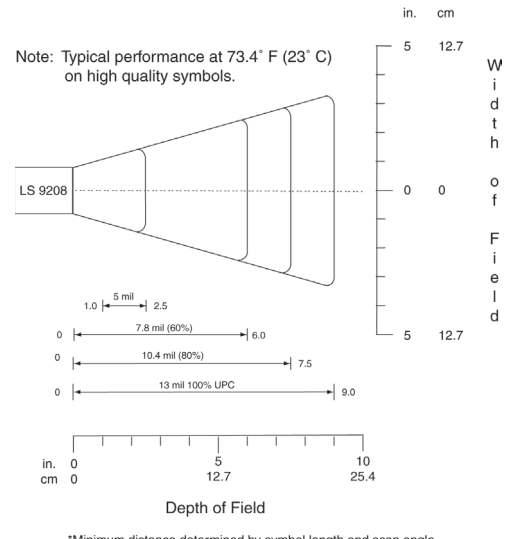
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