

MiniScan MS954 Series

FIXED-MOUNT SCANNER

Compact, durable and high performance fixed-mount bar code scanner

The MS954 from Symbol Technologies is a compact, durable, fixed-mount laser bar code scanner for premium linear scanning on all types of 1D bar codes, including poorly printed and low contrast symbols.

The MS954 offers a configurable scan angle of 47° and 35° for OEM devices requiring a flexible, expanded working range. As one of the smallest, lightest and brightest fixed-mount scanners available today, the MS954 is ideal for accurate automated data collection in OEM device designs with space constraints.

Markets	Applications
OEM embedded	Kiosks and ATMs Clinical diagnostics Medical instruments Blood and chemical analysis Vending and lottery machines Gaming equipment Turnstiles/access control
Fixed-mount	Manufacturing and warehousing Assembly lines Library and document tracking

Rich feature set for more flexibility in many environments

The MS954 features a configurable scan angle and a working range of over 35 inches/88.9 cm to ensure high first-time read rates for maximum productivity. The MS954 is easy to program and configure, enabling you to cut your development time and bring your product to market faster - even if you don't have the in-house technical resources for scanner integration. With its durable housing and built-in RS-232 interface, the MS954 enables your project teams to quickly and confidently integrate high performance 1D bar code data capture into many applications.

Proven embedded technology and services

With millions of installations worldwide, Symbol embedded technology solutions are hard at work in a variety of industries and everyday applications. Proven technology from Symbol allows you to offer your customers superior products and services. In addition, comprehensive training and integration services are available to support your design, testing and approval needs.

For more information on the MS954, contact us at +1.800.722.6234 or +1.631.738.2400, or visit us on the Web at www.symbol.com/ms954



FEATURES

BENEFITS

High performance fixed-mount scanner

Premium scanning on poorly printed and low contrast 1D symbols for maximum accuracy and productivity

Working range from near contact to over 35 in./88.9 cm

Flexible decode range for maximum accuracy and efficiency

Configurable scan angle of 47° and 35°

Ability to control scan angle to meet demands of application

Compact durable housing, mounting holes, LEDs and RS-232 interface

Plug-and-play installation reduces development time and speeds up time to market

Software controlled or manual triggering

Offers flexible control for unattended or hands-free applications

Easy to program simple serial interface (SSI)

Provides fast, simple communications between scanner and host

Reads all major 1D symbologies

Versatile decode capability enables devices to realize a high first-time read rate for improved productivity

Bright 650 nm laser diode

Scan line is easy to see

Software developer's kit (SDK) at no extra charge

Enables the creation of applications using familiar Microsoft® Windows® 98, 2000 and XP platforms

MS954 Specification Highlights

Physical Characteristics

Dimensions:	1.0 in. H x 1.91 in. W x 2.28 in. D 2.54 cm H x 4.85 cm W x 5.79 cm D (nominal)
Weight:	1.67 oz./ 47.34 gm

Performance Characteristics

Light source:	Visible laser diode 650 nm
Scan rate:	104 ± 12 scans per second (bi-directional)
Scan angle:	Default/wide: 47° default; Alternate/narrow: 35°
Scan pattern:	Linear
Skew tolerance (Yaw):	± 50° from normal
Pitch angle:	± 65° from normal
Roll:	± 35° from vertical
Minimum print contrast:	Minimum 25% absolute dark/light reflectance measured at 650 nm
Symbologies:	1D: UPC/EAN, Code 128, UCC.EAN128, Code 39, Code 93, I 2 of 5, Discrete 2 of 5, Codabar, MSI, RSS and 1-D Composite codes
Programmable parameters:	Laser on time, power mode, trigger mode, bi-directional redundancy, symbology types/ lengths, data formatting, serial parameters, beeper tone, pattern controls
Interface:	RS-232

User Environment

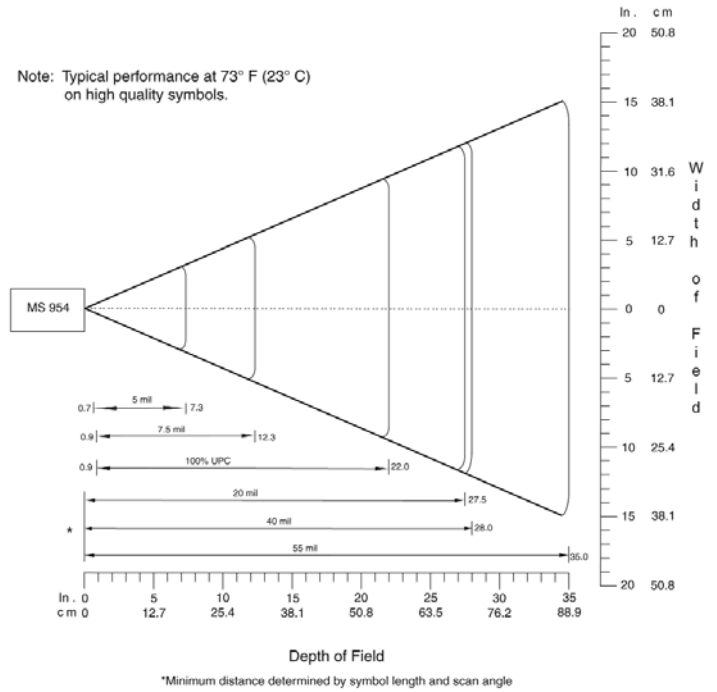
Ambient light:	Artificial light: 450 ft. candles (4,844 Lux) Sunlight: 10,000 ft. candles (107,640 Lux)
Operating temperature:	-4° to 104°F (-20° to 40°C)
Storage temperature:	-40° to 158°F (-40° to 70°C)
Humidity:	5% to 95% noncondensing
Power:	
Input voltage:	5.0 VDC ±10%
Scanning current:	95 mA typical; 125 mA max
Standby current:	27 mA typical; 50 mA max
Vcc noise level:	200mV peak-to-peak max
Drop:	Unit functions normally after multiple 30 in./76 cm drops to concrete

Regulatory

Laser classification:	CDRH Class II, IEC Class 2
Electrical safety:	Certified to UL1950, CA C22-2 NO950 ENG60950/IEC950
EMI/RFI:	FCC Part 15 Class B, ICES-003 Class B European Union EMC Directive, Australian SMA

MS954 Decode Zone

Note: Typical performance at 73° F (23° C) on high quality symbols.



About Symbol Technologies

Symbol Technologies, Inc., The Enterprise Mobility Company™, is a recognized worldwide leader in enterprise mobility, delivering products and solutions that capture, move and manage information in real time to and from the point of business activity. Symbol enterprise mobility solutions integrate advanced data capture products, radio frequency identification technology, mobile computing platforms, wireless infrastructure, mobility software and world-class services programs. Symbol enterprise mobility products and solutions are proven to increase workforce productivity, reduce operating costs, drive operational efficiencies and realize competitive advantages for the world's leading companies. For more information visit us at www.symbol.com or email us at info@symbol.com



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