

Symbol MiniScan MS22XX Series

Fixed Mount Scanner



FEATURES

"Smart" raster pattern automatically tailors the pattern to the height of the PDF417 symbol

Enables even novice users to scan items quickly and accurately

Versatility with adaptive scan patterns: 1D linear and PDF raster

Application can be customized using multiple triggering methods to produce the appropriate scan pattern

Compact, rugged, durable housing with integrated beeper, mounting holes, LEDs, decoder and a variety of interfaces

Plug-and-play installation reduces development time and improves time to market

Sealed to IP54 standards

Protects against water and dust for reliable performance in rough conditions

High-performance, fixed mount scanning made simple

The Symbol MS22XX Series is a compact, affordable industrial fixed mount scanner that provides fast, aggressive performance on a full range of 1D and 2D symbologies including PDF417, RSS and composite codes.

Available in standard and a VHD version to read high-density bar codes, the Symbol MS22XX offers a "smart" raster pattern optimized to read 2D symbols and poorly printed linear bar codes, making this fixed mount scanner ideal for use in a variety of automated data collection devices.

Plug-and-play installation speeds time to market

Symbol MS22XX fixed mount scanners are easy to program and configure, enabling you to shorten your development time and bring your product to market faster — even if you don't have in-house technical resources for scanner integration. With its rugged durable housing, exit window, integrated beeper and interface options, the Symbol MS22XX

enables your project teams to quickly and confidently integrate high-performance 1D and 2D bar code data capture into standalone and OEM applications.

Proven technology to enhance your solutions

With millions of installations worldwide, our OEM devices are proven to deliver high reliability and superior performance, ensuring the accurate and quick capture of data and images in your mission-critical applications and devices. In addition, an easy-to-integrate design and expert assistance from our world-class OEM support team enable you to bring your systems to market quickly and cost effectively. And since even the most intelligent products require a maintenance plan and a support strategy, we offer superior services to help you maximize uptime and maintain peak performance.

For more information about the Symbol MS22XX, contact us at +1.800.722.6234 or +1.631.738.2400, or visit us on the Web at: www.symbol.com/ms22xx

SYMBOL MINISCAN MS22XX SERIES Fixed Mount Scanner

High speed scan rate-640 scans per second

Ensures fast, reliable data collection on all 1D and 2D codes for maximum productivity

Automatic softwarecontrolled or manual triggering

Supports unattended and hands-free applications

Integrated beeper with external beeper support

Allows internal or external beeper to be driven depending on application

Easy-to-program simple serial interface (SSI)

Provides fast, simple interface communication with advanced features and functionality between scanner and host

Optional Software Developer's Kit (SDK)

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

Supports 123Scan utility (multi-interface 07 versions only)

Easy-to-use PC-based utility reduces end-user installation time

Multiple mounting options

Increases development flexibility

Applications

0EM

Fixed-mount or	Manufacturing and wa
industrial standalone	verifications; library and

Manufacturing and warehousing; assembly lines; conveyor belts; security and ID verifications; library and document tracking; backroom receiving; driver licenses and DMV

Interactive kiosks and ATMs; healthcare and medical equipment; clinical diagnostic devices; security and ID verification; robotic equipment; blood analysis; gas pumps; data storage systems; gaming and lottery terminals; vending machines; turnstiles/access control

Symbol MS22XX (Standard and VHD) Specifications

Physical Characteristic	s		
Dimensions:	1.60 in. H x 2.28 in. W x 2.94 in. D 40.64 mm max. H x 57.91 mm max. W x 74.67 mm max. D		
Weight:	4.73 oz. (134 gm)		
Performance Character	istics		
Light Source:	Visible Laser Diode 650 nm		
Scan Rate:	640 scans per second		
Scan Angle:	Horizontal: Vertical:	Cyclone 34° ±1.5° 34° ±1.5°	Raster 34° ±1.5° 12.5° ±1.5°
Scan Patterns:	Linear, smart PDF raster		
Skew (Yaw):	±15° from plane parallel to symbol ("side to side")		
Pitch Angle:	±30° from normal ("front to back")		
Rotation:	±4° from vertical (for scanning benchmark label assuming 3:1 code word aspect ratio)		
Minimum Print Contrast:	Minimum 35% 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 2D: PDF417, MicroPDF, RSS and Composite codes		
Programmable:	Parameters: Laser On Time, Power Mode, Trigger Mode, Bidirectional Redundancy, Symbology Types/Lengths, Data Formatting, Serial Parameters, Beeper Tone, Pattern Controls		
Interfaces:	Symbol MS2204/Symbol MS2204 VHD: RS 232 Symbol MS2207: TTL RS 232, USB, Synapse		
User Environment			
Ambient Light:	Artificial Light 450 ft. candles (4,844 Lux) Sunlight 8,000 ft. candles (86,112 Lux)		
Operating Temperature:	-4° to 122°F	(-20° to 50°C)	

-40° to 158°F (-40° to 70°C)

5% to 95% non-condensing

Scanning Current: 250 mA typical

5.0 VDC ±10%

MS 2204 VHD)

Unit functions normally after multiple 30 in./76 cm

200 mVp to p max

25mA typical +/- 5mA (MS 2204,

45mA typical +/- 5mA (MS 2207)

Input Voltage:

Standby Current:

Vcc Noise Level:

drops to concrete

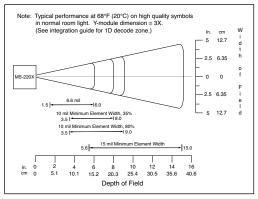
IP54

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
Environmental:	RoHS-compliant

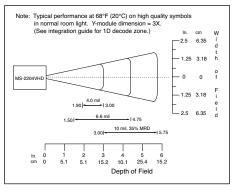
Specifications are subject to change without notice.

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

Symbol MS22XX SD Decode Zone



Symbol MS22XX VHD 2D Decode Zone





Environmental Sealing:

Storage Temperature:

Humidity

Power:

Drop:

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