

# MS9520 Voyager

## Single-Line Laser Scanner

Honeywell's MS9520 Voyager® hand-held, single-line laser scanner offers aggressive scanning of all standard 1D bar codes.

The Voyager series of hand-held, single-line scanners have united form with function in becoming the industry benchmark for value and performance.

This sleek scanner features patented automatic infrared activation and decodes all standard 1D bar codes, including GS1 DataBar™ (formerly known as RSS codes).

For presentation scanning, Honeywell offers a stand with automatic in-stand detection technology.

The MS9521 Voyager<sup>HD</sup>™ is ideal for applications that require high-density scanning, delivering quick and accurate scanning of 1D bar codes as small as 3 mil.

Expand scanner functionality by purchasing the MS9524 Voyager<sup>PDF</sup>™, which delivers aggressive scanning of all standard 1D bar codes, including PDF.

For more information on the MS9520 Voyager single-line laser scanner, please visit [www.honeywell.com/aidc](http://www.honeywell.com/aidc)



## Features

- **Automatic Trigger:** Use scanner as either a hand-held device or a fixed presentation scanner when mounted in the stand
- **650-nanometer laser:** High-visibility laser allows user to place laser line on selected bar code
- **Flash ROM:** Future proof POS system with free firmware updates via MetroSet®2 software and standard PC
- **Parsing (Data Editing):** Format bar code data to meet host system's specific requirements

# MS9520 Voyager Series Technical Specifications

## Operational

Light Source	Visible Laser Diode 650 nm ± 10 nm
Audible Indicators	7 tones or no beep
Visual Indicators	Green = ready to scan; Red = good read; Yellow = automatic scanning
Host System Interfaces	USB, RS232, Keyboard Wedge, IBM 46xx (RS485), OCIA, Laser Emulation, Light Pen Emulation

## Mechanical

Dimensions (LxWxH)	198 mm x 78 mm x 56 mm (7.8" x 3.1" x 2.2")
Weight	149 g (5.3 oz)

## Electrical

Input Voltage	5 VDC ± 0.25 V
Operating Power	825 mW (165 mA @ 5 V) - typical
Standby Power	600 mW (120 mA @ 5 V) - typical
DC Transformers	Class 2: 5.2 VDC @ 1 A
Laser Class	Class 1: IEC60825-1, EN60825-1
EMC	FCC Part 15, ICES-003, EN55022 Class B

## Environmental

Operating Temperature	0°C to 40°C (32°F to 104°F)
Storage Temperature	-40°C to 60°C (-40°F to 140°F)
Humidity	5% to 95% relative humidity, non-condensing
Drop	Designed to withstand 1.5 m (5') drops
Environmental Sealing	Sealed to resist airborne particulate contaminants
Light Levels	4842 Lux (450 foot-candles)

## Scan Performance

Scan Pattern	Single scan line
Scan Speed	72 scan lines per second
Scan Angle	Horizontal: 50°
Print Contrast	35% minimum reflectance difference
Tilt, Pitch, Skew	42°, 68°, 52°
Decode Capabilities	1D: Code 39, Code 93, Code 128, UPC/EAN/JAN, Code 2 of 5, Code 11, Codabar, MSI Plessey, GS1 DataBar, Telepen, Trioptic PDF: PDF417*, MicroPDF417* *MS9524 only



### For more information:

[www.honeywell.com/aidc](http://www.honeywell.com/aidc)

### Security & Data Collection

Honeywell Scanning & Mobility  
 Honeywell  
 90 Coles Road  
 Blackwood, NJ 08012  
 856.228.8100  
[www.honeywell.com](http://www.honeywell.com)

MS9520 / MS9524 Typical Performance*	
Narrow Width	Depth of Field
5.2 mil	13 mm - 51 mm (0.5" - 2.0")
7.5 mil	0 mm - 127 mm (0" - 5.0")
10.4 mil	0 mm - 165 mm (0" - 6.5")
13 mil	0 mm - 203 mm (0" - 6.5")
21 mil	25 mm - 254 mm (0" - 6.5")
*Resolution: 5.2 mil (0.127 mm) *Performance may be impacted by bar code quality and environmental conditions	

MS9521 Typical Performance*	
Narrow Width	Depth of Field
4.0 mil	6 mm - 38 mm (0.3" - 1.5")
6.8 mil	0 mm - 76 mm (0" - 3.0")
10.4 mil	0 mm - 108 mm (0" - 4.3")
13 mil	0 mm - 140 mm (0" - 5.5")
*Resolution: 3 mil (0.076 mm) *Performance may be impacted by bar code quality and environmental conditions	

