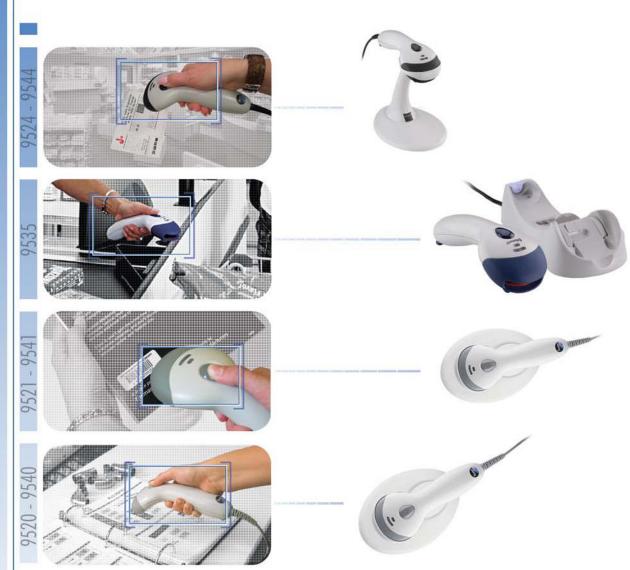


MS9500 SERIES **VOYAGER**® PRODUCT GUIDE

Single Line, Hand-Held, 1D, High-Density 1D, PDF-417 2D and Wireless Laser Bar Code Scanners



Contents

Specifications

About Voyager® Scanners 1 2 Voyager Selection Chart 3 MS9520 Voyager 3 MS9540 Voyager CG® 4 MS9535 VoyagerBT™ MS9524 Voyager PDF™ 5 5 MS9544 VoyagerPDF™ MS9521 Voyager*HD*™ 6 MS9541 Voyager*HD*™ 6 7 Options and Accessories 8 MetroSet®2 Software Utility 9-10

Voyager® Selection Chart

Metrologic's Voyager® family is a diverse group of single-line, handheld, laser bar code scanners with features for virtually every requirement from decoding standard 1D bar codes to wireless applications. Specific Voyager models incorporate Metrologic's proprietary CodeGate technology, scan 2D (PDF) or high density bar codes. Whatever your needs, Voyager is the right scanner for you.

ALL VOYAGER MODELS FEA-

✓ Flash ROM Upgrades

✓ Sunrise 2005 Compliant

/oyager

✓ Custom Edit Bar Codes

✓ Complete Kits Standard

✓ Support for Common Interfaces

✓ User-replaceable Detachable Cables ✓ Auto Activation Mode (hands-free)

✓ Decoding of all standard 1D, RSS-14, RSS Limited and RSS Expanded bar code.



In Stand, Auto Trigger - CodeGate and Non-CodeGate Models



The autotrigger will activate the laser line in the stand.



2 Present bar code to the scanner and it will be decoded and the data transmitted automatically.

Out-of-Stand - CodeGate Models



The autotrigger will activate the laser line.



Place the laser line on the bar code.



3 Press the button to decode and transmit bar code data.

Out-of-Stand, Manual Activation - CodeGate Models



Press and hold the button to activate the laser line.



2 Place the laser line on the bar code.



3 Continue holding down the button to decode and transmit bar code data.

Out-of-Stand, Auto Trigger - Non-CodeGate Models and CodeGate Models with CodeGate Feature Deactivated



The autotrigger will activate the laser line.



2 Place the laser line on the bar code and it will decode and transmit the data automatically.

ms9520 Voyager® & ms9540 Voyager CG®

Voyager

Voyager and VoyagerCG are auto-trigger, single-line laser bar code scanners designed for decoding all standard 1D bar codes, including RSS codes. Their sleek, futuristic designs certainly catch your attention. But looks get you only so far, it's performance and value that really count. It is here that Voyager excels and sets new industry standards.

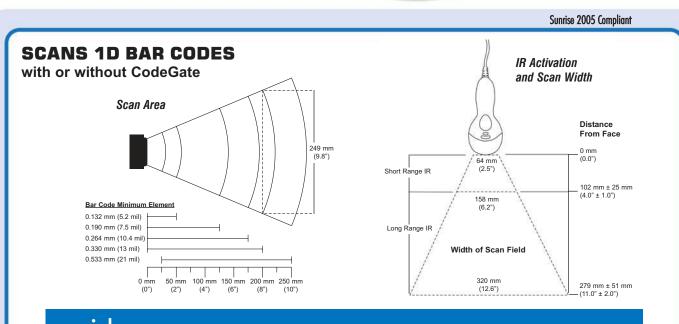
Features

- Automatic trigger
- Decodes all standard 1D, RSS-14, RSS Limited, and RSS expanded bar codes
- User-replaceable, single cable interface to host
- Adjustable stand

Model MS9540 Only

CodeGate data transmission technology





quick specs		
Depth of Field	0 mm - 203 mm (0" - 8") for 0.33 mm (13 mil) bar codes	
Width of Field	64 mm (2.5") @ face; 249 mm (9.8") @ 203 mm (8.0")	
Scan Speed	72 \pm 2 scan lines per second	
Scan Pattern	Single scan line	
Minimum Bar Width	0.127 mm (5.0 mil)	
Dimensions	198 mm (7.8") H x 40 mm (1.6") D x Handle Width: 45 mm (1.8") Head Width: 78 mm (3.1")	
Interfaces	PC Keyboard Wedge, RS232, OCIA, Light Pen Emulation, IBM 468X/469X,	
	Stand Alone Keyboard, USB	
Light Source	Visible Laser Diode 650 nm ± 10 nm	
Weight	149 g (5.25 oz)	
Shock	Normal operation after 30 drops to concrete of 1.5 m (5')	

MS9535 Voyager B T™

/oyage

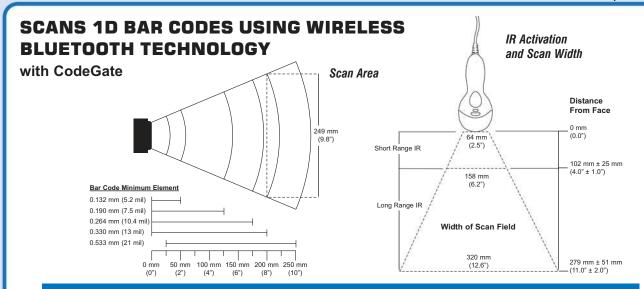
Metrologic's VoyagerBT offers convenience and the freedom of mobility by incorporating Bluetooth wireless technology into a Voyager Series scanner. VoyagerBT provides a lightweight, comfortable, and easy to use scanning solution with unmatched standard features.

Features

- Cable-free scanning using Bluetooth® technology
- CodeGate® data transmission ideal for menu scanning
- Up to 12,000 scans per charge
- Adjustable volume and beeper tone
- Recharging base station with in base scanning
- Wall or countertop mounting
- 10 meter (33') working range
- Two way communication user receives audible and visual confirmation of each scan
- Scanner locating button on cradle



Sunrise 2005 Compliant



quick specs

Depth of Field	0 mm - 203 mm (0" - 8") for 0.33 mm (13 mil) bar codes	
Width of Field	64 mm (2.5") @ face; 249 mm (9.8") @ 203 mm (8.0")	
Scan Speed	72 <u>+</u> 2 scan lines per second	
Scan Pattern	Single scan line	
Minimum Bar Width	0.127 mm (5.0 mil)	
Dimensions	Scanner: 198 mm (7.8") H x 40 mm (1.6") D x Handle Width: 45 mm (1.8") Head Width: 78 mm (3.1")	
	Base: 61 mm (2.4") H x 204 mm (8.0") D x 107 mm (4.2") W	
Interfaces	PC Keyboard Wedge, RS232, Light Pen Emulation, IBM 468X/469X, Stand Alone Keyboard, USB	
Light Source	Visible Laser Diode 650 nm <u>+</u> 10 nm	
Weight	Scanner (with battery):199 g (7.0 oz); Base: 225 g (7.9 oz)	
Shock	Normal operation after 30 drops to concrete of 1.5 m (5')	

MS9524 Voyager PDF™ & MS9544 Voyager PDF™

Voyage

Metrologic's MS9524 and

MS9544 VoyagerPDF scanners offer the same outstanding performance found in all Voyager Series scanners. What differentiates the Voyager*PDF* scanners is the ability to decode 2D codes such as PDF417, PDF417 truncated, micro PDF, macro PDF and RSS-14 composite bar code symbologies.

Features

- Decodes 1D & 2D (including RSS, PDF417, PDF417 truncated, micro PDF and macro PDF) bar codes
- Automatic trigger operation
- 180 scans per second
- Auto stand detect

Model MS9544 Only

CodeGate® data transmission technology



Sunrise 2005 Compliant **SCANS 1D AND** Scan Area IR Activation PDF-417 (2D) and Scan Width **BAR CODES** 249 mm with or without (9.8")Distance From Face CodeGate (2.5") Bar Code Minimum Element Short Range IR 0.132 mm (5.2 mil) 102 mm ± 25 mm 0.190 mm (7.5 mil) (4.0" ± 1.0") 158 mm 0.264 mm (10.4 mil) 0.330 mm (13 mil) 0.533 mm (21 mil) PDF417 Bar Code Minir m Element 0.254 mm (10 mil) Width of Scan Field 0.381 mm (15 mil) 320 mm (12.6") 100 mm 150 mm 200 mm 250 mm (4") (6") (8") (10") 279 mm ± 51 mm (11.0" ± 2.0") quick specs

Depth of Field 0 mm - 203 mm (0" - 8") for 0.33 mm (13 mil) bar codes Width of Field 64 mm (2.5") @ face; 249 mm (9.8") @ 203 mm (8.0") 180 + 10 scan lines per second Scan Speed Scan Pattern Single scan line Minimum Bar Width 0.127 mm (5.0 mil) Dimensions 198 mm (7.8") H x 40 mm (1.6") D x Handle Width: 45 mm (1.8") Head Width: 78 mm (3.1") PC Keyboard Wedge, RS232, OCIA, Light Pen Emulation, IBM 468X/469X, Stand Alone Keyboard, USB Interfaces **Light Source** Visible Laser Diode 650 nm ± 10 nm Weight 149 g (5.25 oz) Normal operation after 30 drops to concrete of 1.5 m (5') Shock

MS9521 Voyager HD™ & MS9541 Voyager HD™

Voyagei

Metrologic's MS9521 and MS9541 VoyagerHD

are high performance single line laser bar code scanner capable of scanning high density (3 mil) bar codes.

Features

- Decodes high density bar codes with a minimum width of 0.076 mm (3.0 mil), as well as all standard 1D, RSS-14, RSS Limited and RSS expanded bar codes
- Automatic trigger operation
- Custom edit the bar code data
- User-replaceable, single cable interface to host

Model MS9541 Only

CodeGate® data transmission technology

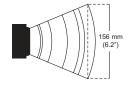


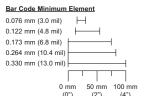
Sunrise 2005 Compliant

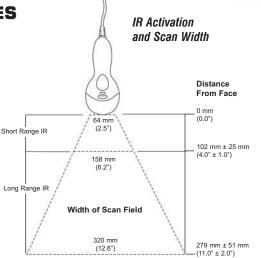
SCANS HIGH-DENSITY 1D BAR CODES

with or without CodeGate

Scan Area







quick specs

Depth of Field	0 mm - 102 mm (0" - 4") for 0.33 mm (13 mil) bar codes	
	15 mm - 35 mm (0.6" - 1.4") for 0.076 mm (3.0 mil) bar codes	
Width of Field	64 mm (2.5") @ face; 157 mm (6.2") @ 102 mm (4.0")	
Scan Speed	72 ± 2 scan lines per second	
Scan Pattern	Single scan line	
Minimum Bar Width	0.076 mm (3.0 mil)	
Dimensions	198 mm (7.8") H x 40 mm (1.6") D x Handle Width: 45 mm (1.8") Head Width: 78 mm (3.1")	
Interfaces	PC Keyboard Wedge, RS232, OCIA, Light Pen Emulation, IBM 468X/469X,	
	Stand Alone Keyboard, USB	
Light Source	Visible Laser Diode 650 nm ± 10 nm	
Weight	149 g (5.25 oz)	
Shock	Normal operation after 30 drops to concrete of 1.5 m (5')	

MS9500 Series Voyager® Options and Accessories





Optional Wall Mount

shown with MS9540 **Voyager***CG* (scanner sold seperately) Optional

Voyager*BT*Presentation Stand

shown with
MS9535 VoyagerBT

(scanner sold seperately)



Standard

Stand Mounting Hardware

Included in all MS9500 Series Kits - except MS9535

shown with MS9541 **Voyager***HD*



Optional Charger Only Cradle

for applications
where the scanner
communicates directly
with another
Bluetooth device

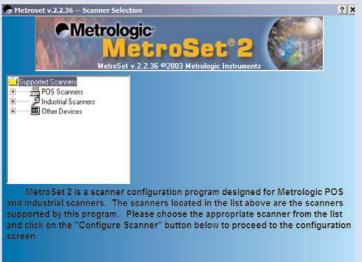


MetroSet®2 Software Utility

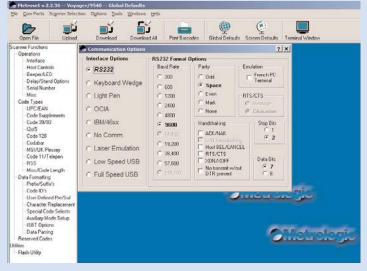
MetroSet®2 is a graphical programming utility that provides users with a Windows based tool for programming, formatting data parsing and flashing Metrologic Voyager Series Scanners.

Simply select the scanner type from the list provided and begin programming. Users can upload their current settings and easily make changes to create a custom configuration. This file can then be saved and used to program multiple scanners, assuring they all have the same configuration.

Also included in MetroSet 2 is a Flash Utility that allows users to upgrade firmware by simply selecting the file and clicking the "Flash Scanner" button. Customers can receive new firmware from Metrologic's Technical Support Department by contacting their local Metrologic representative.











MS9520 Voyager® & MS9540 VoyagerCG®

SCANS 1D BAR CODES - with or without CodeGate

MS9521 & MS9541 Voyagei

SCANS HIGH DENSITY 1D BAF

- with or without CodeGate

		 with or without CodeGate
PERATIONAL		
Light Source	Visible Laser Diode 650 nm \pm 10 nm	Visible Laser Diode 650 nm \pm 10 nm
Laser Power	0.96 mW (peak)	0.96 mW (peak)
Depth of Scan Field (program)	0 mm - 203 mm (0" - 8") for 0.33 mm (13 mil) bar codes	15 mm - 35 mm (0.6" - 1.4") for 0.076 mm (3 mil) bar code
Width of Scan Field	64 mm (2.5") @ face; 249 mm (9.8") @ 203 mm (8.0")	64 mm (2.5") @ face; 157 mm (6.2") @ 102 mm (4.0")
Scan Speed	72 \pm 2 scan lines per second	72 ± 2 scan lines per second
Scan Pattern	Single scan line	Single scan line
Minimum Bar Width	0.127 mm (5.0 mil)	0.076 mm (3.0 mil)
Decode Capability	Autodiscriminates all standard 1D bar codes, including RSS, for other symbologies call Metrologic	Autodiscriminates all standard 1D bar codes, including RSS, for other symbologies call Metrologic
System Interfaces	PC Keyboard Wedge, RS232, OCIA, Light Pen Emulation, Non-decode Emulation, IBM 468X/469X, Stand Alone Keyboard, USB (low speed and full speed)	PC Keyboard Wedge, RS232, OCIA, Light Pen Emulation, No Emulation, IBM 468X/469X, Stand Alone Keyboard, USB (lo
Print Contrast	35% minimum reflectance difference	35% minimum reflectance difference
Number Characters	Up to 80 data characters	Up to 80 data characters
Roll, Pitch, Yaw	42°, 68°, 52°	42°, 68°, 52°
Beeper Operation	7 tones or no beep	7 tones or no beep
Indicators (LED)	$ \textit{Green} \! = \! \textit{laser on, ready to scan; yellow} \! = \! \textit{auto trigger mode active; red} \! = \! \textit{good read} $	Green=laser on, ready to scan; yellow=auto trigger mode
Profile Support	N/a	N/a
Bluetooth Version	N/a	N/a
Height	198 mm (7.8")	198 mm (7.8")
Depth	40 mm (1.6")	40 mm (1.6")
Width	Handle - 45 mm (1.8"); Head - 78 mm (3.1")	Handle - 45 mm (1.8"); Head - 78 mm (3.1")
Weight	149 g (5.25 oz)	149 g (5.25 oz)
Termination Cable	10 pin modular RJ45 Standard 2.7 m (9') coiled; optional 2.1 m (7') straight	10 pin modular RJ45 Standard 2.7 m (9') coiled; optional 2.1 m (7') straight
	()	(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Input Voltage	5 VDC <u>+</u> 0.25 V	5 VDC <u>+</u> 0.25 V
Power - Operating	500 mW	500 mW
Power - Standby	110 mW	110 mW
Current - Operating	100 mA typical @ 5 VDC	100 mA typical @ 5 VDC
Current - Standby	22 mA typical @ 5 VDC	22 mA typical @ 5 VDC
DC Transformers	Class 2; 5.2 VDC @ 650 mA	Class 2; 5.2 VDC @ 650 mA
Laser Class	Laser Class 1 In accordance with IEC 60825-1:1993 + A1:1997 + A2:2001 and EN 60825-1:1994 + A11:1996 + A2:2001	Laser Class 1 In accordance with IEC 60825-1:1993+A1:19 and EN 60825-1:1994+A11:1996+A2:2001
EMC	FCC, ICES-003 & EN55022 Class B	FCC, ICES-003 & EN55022 Class B
Current Charging	N/a	N/α
Recharge Time	N/a	N/a
Battery Capacity	N/a	N/a
Radio Range	N/a	N/a
Frequency	N/a	N/a
.,,	19,4	
Operating Temperature	0°C to 40°C (32°F to 104°F)	0°C to 40°C (32°F to 104°F)
Ctorogo Tomoroturo	1006 - 1006 1007 - 11007	-40°C to 60°C (-40°F to 140°F)
Storage Temperature	-40°C to 60°C (-40°F to 140°F)	-40 C 10 00 C (-40 F 10 140 F)
Humidity	-40°C to 60°C (-40°F to 140°F) 5% to 95% relative humidity, non-condensing	5% to 95% relative humidity, non-condensing
		·
Humidity	5% to 95% relative humidity, non-condensing	5% to 95% relative humidity, non-condensing

CODES

MS9524 & MS9544 **Voyager***PDF*™

SCANS 1D AND PDF417 (2D) BAR CODES

- with or without CodeGate

MS9535 VoyagerBT™

SCANS 1D BAR CODES, WIRELESS **BLUETOOTH TECHNOLOGY** - with CodeGate

	Visible Laser Diode 650 nm ± 10 nm	Visible Laser Diode 650 nm \pm 10 nm
	0.96 mW (peak)	0.96 mW (peak)
	0 mm - 203 mm (0" - 8") for 0.33 mm (13 mil) bar codes	0 mm - 203 mm (0" - 8") for 0.33 mm (13 mil) bar codes
	64 mm (2.5") @ face; 249 mm (9.8") @ 203 mm (8.0")	64 mm (2.5") @ face; 249 mm (9.8") @ 203 mm (8.0")
	180 \pm 10 scan lines per second	72 ± 2 scan lines per second
	Single scan line	Single scan line
	0.127 mm (5.0 mil)	0.127 mm (5.0 mil)
	Autodiscriminates all standard 1D and 2D bar codes, including RSS-14, PDF417, truncated PDF417, micro PDF and macro PDF, for other symbologies call Metrologic	Autodiscriminates all standard 1D bar codes, including RSS, for other symbologies call Metrologic
decode speed and full speed)	PC Keyboard Wedge, RS232, OCIA, Light Pen Emulation, Non-decode Emulation, IBM 468X/469X, Stand Alone Keyboard, USB (low speed and full speed)	PC Keyboard Wedge, RS232, Light Pen Emulation, Stand Alone Keyboard, USB (low speed and full speed)
	35% minimum reflectance difference	35% minimum reflectance difference
	Up to 80 data characters on 1D; 1850 text characters on PDF417	Up to 80 data characters
	42°, 68°, 52°	42°, 68°, 52°
	13 tones or no beep	7 tones or no beep
active; red=good read	Blue=laser on, ready to scan; yellow=auto trigger mode active; white=good read N/a	Blue=laser on, ready to scan; yellow=auto trigger mode active; white=good read Serial Port Profile (SPP)
	N/a	v1.1 compliant
	198 mm (7.8")	Scanner: 198 mm (7.8"); base: 204 mm (8.0")
	40 mm (1.6")	Scanner: 40 mm (1.6"); base: 61 mm (2.4")
	Handle - 45 mm (1.8"); Head - 78 mm (3.1")	Scanner handle: 45 mm (1.8"), scanner head: 78 mm (3.1"); base: 107 mm (4.2")
	149 g (5.25 oz)	Scanner (with battery) 199 g (7.02 oz); base: 225 g (7.94 oz)
	10 pin modular RJ45	Base: 10 pin modular RJ45
	Standard 2.7 m (9') coiled; optional 2.1 m (7') straight	Base: 2.1 m (7') straight
	5.2 VDC <u>+</u> 0.25 V	Base: 5.2 VDC <u>+</u> 0.25 V
	1500 mW	Base: 0.6 W (typical); 1.4 W (max)
	750 mW	Base: 0.6 W
	300 mA typical @ 5.25 VDC	Scanner: 230 mA (max) @ 5 VDC; base: 65 mA (max) @ 5 VDC
	100 mA typical @ 5.25 VDC	Scanner: 30 mA typical @ 5 VDC
	Class 2; 5.2 VDC @ 650 mA	Scanner: none; base: Class 2; 5.2 VDC @ 2 A
7+A2:2001	Laser Class 1 In accordance with IEC 60825-1:1993+A1:1997+A2:2001 and EN 60825-1:1994+A11:1996+A2:2001	Laser Class 1 In accordance with IEC 60825-1:1993 + A1:1997 + A2:2001 and EN 60825-1:1994 + A11:1996 + A2:2001
	FCC, ICES-003 & EN55022 Class B	FCC, ICES-003 & EN55022 Class B
	N/a	2 A
	N/a	2.5 hours
	N/a	12,000 scans (max)
	N/a	10 m (33')
	N/a	2.4 - 2.48 GHz (frequency hopping)
	0°C to 40°C (32°F to 104°F)	0°C to 40°C /22°E to 104°E\
	·	0°C to 40°C (32°F to 104°F)
	-40°C to 60°C (-40°F to 140°F)	-40°C to 60°C (-40°F to 140°F)
	5% to 95% relative humidity, non-condensing	5% to 95% relative humidity, non-condensing
	Up to 4842 Lux (450 footcandles)	Up to 4842 Lux (450 footcandles)
	Normal operation after 30 drops to concrete of 1.5 m (5')	Normal operation after 30 drops to concrete of 1.5 m (5')
	Sealed to resist airborne particulate contaminants	Sealed to resist airborne particulate contaminants

Metrologic designs, manufactures and markets bar code scanning and high-speed automated data capture systems solutions using laser, holographic, camera and vision-based technologies. Metrologic offers expertise in 1D and 2D bar code reading, portable data collection, optical character recognition, image lift, and parcel dimensioning and singulation detection for customers in retail, commercial, manufacturing, transportation and logistics, and postal and parcel delivery industries. In addition to its extensive line of bar code scanning and vision system equipment, the company also provides laser beam delivery and control systems to semi-conductor and fiber optic manufacturers, as well as a variety of highly sophisticated optical systems. Metrologic products are sold in more than 110 countries worldwide through Metrologic's sales, service and distribution offices located in North and South America, Europe and Asia.

Sales support and technical assistance are available worldwide.

View Metrologic data sheets, user/programming guides, trade show schedules, and much more at:

www.metrologic.com

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DS9500