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### MS9500 SERIES **VOYAGER**® PRODUCT GUIDE

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









VOYAGER









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Specifications

Voyager® Selection Chart

Voyager is the scanner of choice for all your linear bar code scanning needs. Whether corded or wireless, reading small or large codes, or

even reading an occasional PDF417 barcode, there is a member of the Voyager family perfect for your retail point-of-sale, light warehousing or healthcare application. And, with features like our proprietary CodeGate technology for ultimate control, automatic in-stand scanning, all-inclusive kits, bumper-to-cable warranty and easy-on-your-wallet prices, its no wonder so many companies have made the switch to Voyager.

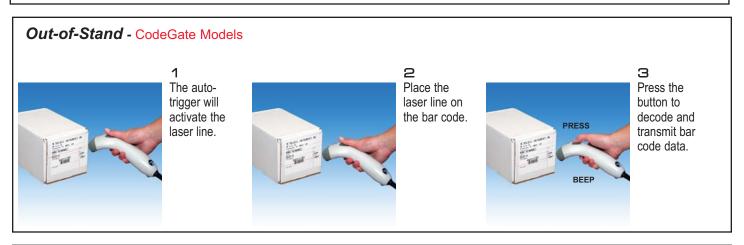
### ALL VOYAGER MODELS FEATURE:

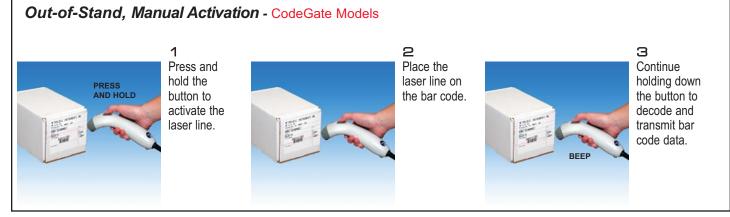
- **✓** Flash ROM Upgrades
- **✓** Sunrise 2005 Compliant
- **✓** Custom Edit Bar Codes
- Complete Kits Standard
- **✓** Support for Common Interfaces
- **✓** User-replaceable Detachable Cables
- **✓** Auto Activation Mode (hands-free)

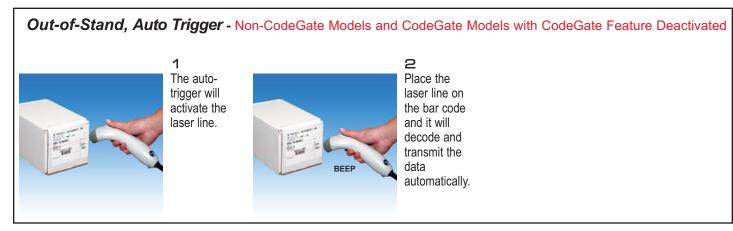
✓ Decoding of all standard 1D, RSS-14, RSS Limited and RSS Expanded bar code.



#### In Stand, Auto Trigger - CodeGate and Non-CodeGate Models 2 Present bar The autotrigger will code to the activate the scanner and laser line in it will be the stand. decoded and the data transmitted automatically.







**Modes of Operation** 

### MS9520 Voyager® & MS9540 Voyager CG®

**Voyager and Voyager** 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

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#### Model MS9540 Only

CodeGate data transmission technology



#### Sunrise 2005 Compliant **SCANS 1D BAR CODES** IR Activation with or without CodeGate and Scan Width Scan Area Distance Short Range IR Bar Code Minimum Element 0.132 mm (5.2 mil) 0.190 mm (7.5 mil) 0.264 mm (10.4 mil 0.330 mm (13 mil) Width of Scan Field 0.533 mm (21 mil) 320 mm (12.6") 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") $72 \pm 2$ scan lines per second Scan Speed Scan Pattern Single scan line Minimum Bar Width 0.127 mm (5.0 mil) 198 mm (7.8") H x 40 mm (1.6") D x Handle Width: 45 mm (1.8") Head Width: 78 mm (3.1") Dimensions PC Keyboard Wedge, RS232, OCIA, Light Pen Emulation, IBM 468X/469X, Interfaces Stand Alone Keyboard, USB Light Source Visible Laser Diode 650 nm + 10 nm 149 g (5.25 oz) Shock Normal operation after 30 drops to concrete of 1.5 m (5')

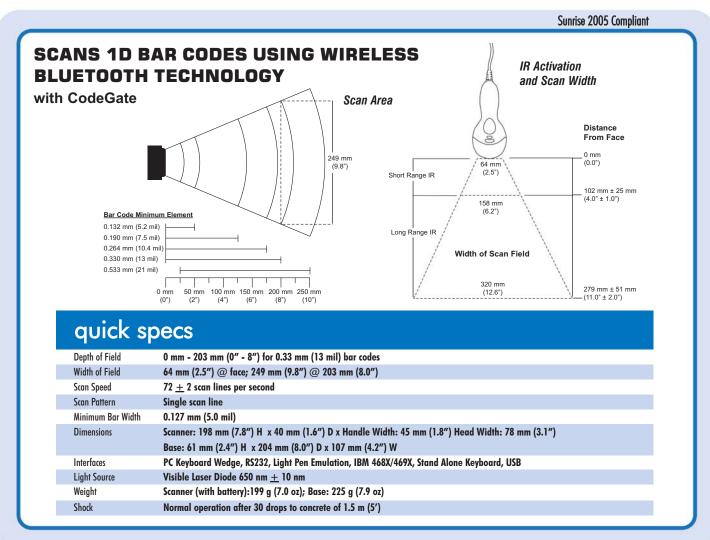
### MS9535 Voyager BT™

**Metrologic's Voyager** *BT* offers convenience and the freedom of mobility by incorporating Bluetooth wireless technology into a Voyager Series scanner. Voyager *BT* 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





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# MS9524 Voyager PDF™ & MS9544 Voyager PDF™ Metrologic's MS9524 and

MS9544 VoyagerPDF scanners offer the same outstanding performance found in all Voyager Series scanners. What differentiates the VoyagerPDF 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

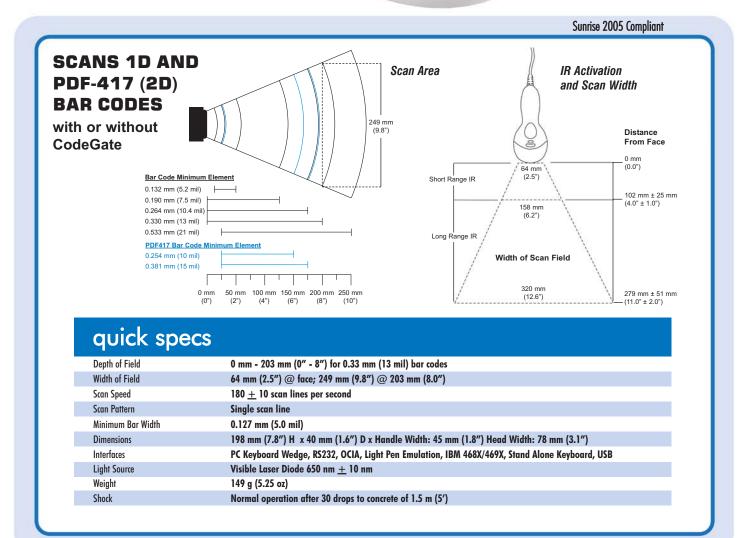
Model MS9544 Only

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• CodeGate® data transmission technology



Voyager



### MS9521 Voyager HD™ & MS9541 Voyager HD™

### 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

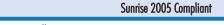
- Decodes high density bar codes with a minimum width of 0.076 mm (3.0 mil), as well as all standard 1D, RSS-14, RSS Limited and RSS expanded bar codes
- Automatic trigger operation
- Custom edit the bar code data
- User-replaceable, single cable interface to host

#### Model MS9541 Only

CodeGate® data transmission technology

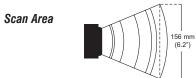




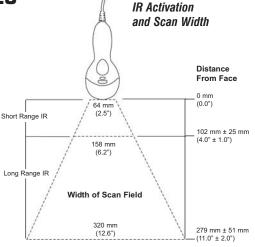


### SCANS HIGH-DENSITY 1D BAR CODES

with or without CodeGate



### 



### 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 $\pm$ 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 <u>+</u> 10 nm
Weight	149 g (5.25 oz)
Shock	Normal operation after 30 drops to concrete of 1.5 m (5')

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### MS9500 Series Voyager® Options and Accessories





### Optional Wall Mount

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

Optional
VoyagerBT
Presentation
Stand

shown with MS9535 **Voyager***BT* (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

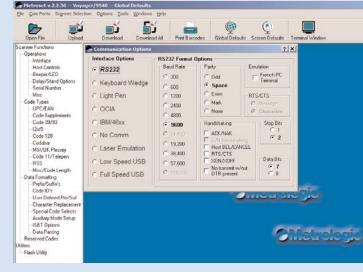
MetroSet®2 is a graphical programming utility that provides users with a Windows based tool for programming, formatting data parsing and flashing Metrologic Voyager Series Scanners.

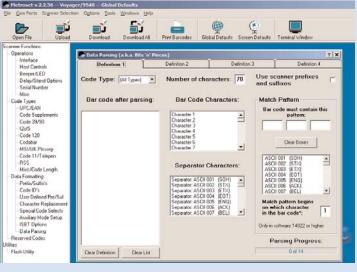
Simply select the scanner type from the list provided and begin programming. Users can upload their current settings and easily make changes to create a custom configuration. This file can then be saved and used to program multiple scanners, assuring they all have the same configuration.

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.











Standard Voyager Colors





Voyagers are available in a variety of other colors with min-imum auantity purchase









	MS9520 Voyager® & MS9540 VoyagerCG®	MS9521 & MS9541 <b>Voyager<i>HD</i>™</b>	MS9524 & MS9544 Voyager <i>PDF</i> ™	MS9535 Voyager <i>BT</i> ™
	SCANS 1D BAR CODES - with or without CodeGate	SCANS HIGH DENSITY 1D BAR CODES - with or without CodeGate	SCANS 1D AND PDF417 (2D) BAR CODES - with or without CodeGate	SCANS 1D BAR CODES, WIRELESS BLUETOOTH TECHNOLOGY - with CodeGate
OPERATIONAL				
Light Source	Visible Laser Diode 650 nm $\pm$ 10 nm	Visible Laser Diode 650 nm $\pm$ 10 nm	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)	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 codes	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
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")	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")
Scan Speed	$72 \pm 2$ scan lines per second	$72 \pm 2$ scan lines per second	180 $\pm$ 10 scan lines per second	72 <u>+</u> 2 scan lines per second
Scan Pattern	Single scan line	Single scan line	Single scan line	Single scan line
Minimum Bar Width	0.127 mm (5.0 mil)	0.076 mm (3.0 mil)	0.127 mm (5.0 mil)	0.127 mm (5.0 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	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
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, Non-decode Emulation, IBM 468X/469X, Stand Alone Keyboard, USB (low 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)
Print Contrast	35% minimum reflectance difference	35% minimum reflectance difference	35% minimum reflectance difference	35% minimum reflectance difference
Number Characters	Up to 80 data characters	Up to 80 data characters	Up to 80 data characters on 1D; 1850 text characters on PDF417	Up to 80 data characters
Roll, Pitch, Yaw	42°, 68°, 52°	42°, 68°, 52°	42°, 68°, 52°	42°, 68°, 52°
Beeper Operation	7 tones or no beep	7 tones or no beep	13 tones or no beep	7 tones or no beep
Indicators (LED)	Green=laser on, ready to scan; yellow=auto trigger mode active; red=good read	Green=laser on, ready to scan; yellow=auto trigger mode active; red=good read	Blue=laser on, ready to scan; yellow=auto trigger mode active; white=good read	Blue=laser on, ready to scan; yellow=auto trigger mode active; white=good re
Profile Support	N/a	N/a	N/a	Serial Port Profile (SPP)
Bluetooth Version	N/a	N/a	N/a	v1.1 compliant
Height	198 mm (7.8")	198 mm (7.8")	198 mm (7.8")	Scanner: 198 mm (7.8"); base: 204 mm (8.0")
Depth	40 mm (1.6")	40 mm (1.6")	40 mm (1.6")	Scanner: 40 mm (1.6"); base: 61 mm (2.4")
Width	Handle - 45 mm (1.8"); Head - 78 mm (3.1")	Handle - 45 mm (1.8"); Head - 78 mm (3.1")	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
Weight	149 g (5.25 oz)	149 g (5.25 oz)	149 g (5.25 oz)	Scanner (with battery) 199 g (7.02 oz); base: 225 g (7.94 oz)
Termination	10 pin modular RJ45	10 pin modular RJ45	10 pin modular RJ45	Base: 10 pin modular RJ45
Cable	Standard 2.7 m (9') coiled; optional 2.1 m (7') straight	Standard 2.7 m (9') coiled; optional 2.1 m (7') straight	Standard 2.7 m (9') coiled; optional 2.1 m (7') straight	Base: 2.1 m (7') straight
Input Voltage	5 VDC <u>+</u> 0.25 V	5 VDC <u>+</u> 0.25 V	5.2 VDC <u>+</u> 0.25 V	Base: 5.2 VDC <u>+</u> 0.25 V
Power - Operating	500 mW	500 mW	1500 mW	Base: 0.6 W (typical); 1.4 W (max)
Power - Standby	110 mW	110 mW	750 mW	Base: 0.6 W
Current - Operating	100 mA typical @ 5 VDC	100 mA typical @ 5 VDC	300 mA typical @ 5.25 VDC	Scanner: 230 mA (max) @ 5 VDC; base: 65 mA (max) @ 5 VDC
Current - Standby	22 mA typical @ 5 VDC	22 mA typical @ 5 VDC	100 mA typical @ 5.25 VDC	Scanner: 30 mA typical @ 5 VDC
DC Transformers	Class 2; 5.2 VDC @ 650 mA	Class 2; 5.2 VDC @ 650 mA	Class 2; 5.2 VDC @ 650 mA	Scanner: none; base: Class 2; 5.2 VDC @ 2 A
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 + A1:1997 + 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	Laser Class 1 In accordance with IEC 60825-1:1993+A1:1997+A2:2001 and EN 60825-1:1994+A11:1996+A2:2001
EMC	FCC, ICES-003 & EN55022 Class B	FCC, ICES-003 & EN55022 Class B	FCC, ICES-003 & EN55022 Class B	FCC, ICES-003 & EN55022 Class B
Current Charging	N/a	N/a	N/a	2 A
Recharge Time	N/a	N/a	N/a	2.5 hours
Battery Capacity	N/a	N/a	N/a	12,000 scans (max)
Radio Range	N/a	N/a	N/a	10 m (33')
Frequency	N/a	N/a	N/a	2.4 - 2.48 GHz (frequency hopping)
Operating Temperature	0°C to 40°C (32°F to 104°F)	0°C to 40°C (32°F to 104°F)	0°C to 40°C (32°F to 104°F)	0°C to 40°C (32°F to 104°F)
Storage Temperature	-40°C to 60°C (-40°F to 140°F)	-40°C to 60°C (-40°F to 140°F)	-40°C to 60°C (-40°F to 140°F)	-20°C to 60°C (-4°F to 140°F)
	50/ - 050/ 1 - 1 - 15	5% to 95% relative humidity, non-condensing	5% to 95% relative humidity, non-condensing	5% to 95% relative humidity, non-condensing
Humidity	5% to 95% relative humidity, non-condensing	5 /6 to 75 /6 retained normally, non-condensing		
Humidity Light Levels	5% to 95% relative humidity, non-condensing  Up to 4842 Lux (450 footcandles)	Up to 4842 Lux (450 footcandles)	Up to 4842 Lux (450 footcandles)	Up to 4842 Lux (450 footcandles)
•	, -		Up to 4842 Lux (450 footcandles)  Normal operation after 30 drops to concrete of 1.5 m (5')	Up to 4842 Lux (450 footcandles)  Normal operation after 30 drops to concrete of 1.5 m (5')