## CMetrologic

# Ms5500 sfres $\operatorname{VOYAGER}$ <br> PRODUCT GUIDE 

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



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## 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 FEATURE: <br> Flash ROM Upgrades

Sunrise 2005 Compliant
Complete Kits Standard
User-replaceable Detachable Cables
Custom Edit Bar Codes
Supports Common Interfaces
Auto Activation Mode (hands-free)
Decodes all standard 1D, RSS-14, RSS Limited and RSS Expanded bar code

| MS9520 Voyager ${ }^{\circ}$ | STANDARD |
| :---: | :---: |
| MS9535 VoyagerBT" ${ }^{\text {" }}$ with CodeGate | WIRELESS |
| MS5524 VoyagerPDF ${ }^{\text {w }}$ | $\begin{gathered} 2 \mathrm{D} \\ \text { BAR CODES } \end{gathered}$ |
| MS9521 VoyagerHD" | HIGH DENSITY bar codes |

In Stand, Auto Trigger - CodeGate and Non CodeGate Models


Out-of-Stand - CodeGate Models


Out-of-Stand, Manual Activation - CodeGate Models


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


## mss520 Voyager ${ }^{\circledR}$ \& ms9540 Voyager OG $^{\circ}$

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

Features

- Automatic trigger
- Decodes all standard ID, 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


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## SCANS 1D BAR CODES with or without CodeGate



## quick specs

| Depth of Field | $0 \mathrm{~mm}-203 \mathrm{~mm}\left(0^{\prime \prime}-8^{\prime \prime}\right)$ for $0.33 \mathrm{~mm}(13 \mathrm{mil})$ bar codes |
| :---: | :---: |
| Width of Field | $64 \mathrm{~mm}\left(2.5{ }^{\prime \prime}\right) @$ face; $249 \mathrm{~mm}\left(9.8^{\prime \prime}\right) @ 203 \mathrm{~mm}$ (8.0 ${ }^{\prime \prime}$ ) |
| Scan Speed | $72 \pm 2$ scan lines per second |
| Scan Pattern | Single scan line |
| Minimum Bar Width | 0.127 mm ( 5.0 mil ) |
| Dimensions | $198 \mathrm{~mm}\left(7.8^{\prime \prime}\right)$ H x 40 mm (1.6") D x Handle Width: 45 mm (1.8") Head Width: 78 mm ( $3.1{ }^{\prime \prime}$ ) |
| Interfaces | PC Keyboard Wedge, RS232, OCIA, Light Pen Emulation, IBM 468X/469X, Stand Alone Keyboard, USB (low speed and full speed) |
| Light Source | Visible Laser Diode $650 \mathrm{~nm} \pm 10 \mathrm{~nm}$ |
| Weight | 149 g (5.25 oz) |
| Shock | Designed to withstand $1.5 \mathrm{~m}\left(5^{\prime}\right)$ drops |

## mss535 Voyager $\boldsymbol{B} \boldsymbol{T}^{\text {TM }}$

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 ${ }^{\circledR}$ technology
- CodeGate ${ }^{\oplus}$ 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 ( $33^{\prime}$ ) working range
- Two way communication - user receives audible and visual confirmation of each scan
- Scanner locator button on cradle

Sunise 2005 Compliant

## SCANS 1D BAR CODES USING WIRELESS BLUETOOTH TECHNOLOGY

with CodeGate


Acivation
and Scan Width


## quick specs

| Depth of Field | 0 mm - 203 mm ( $0^{\prime \prime}-8$ ' $)$ 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 | Scanner: $198 \mathrm{~mm}\left(7.8^{\prime \prime}\right)$ H x $40 \mathrm{~mm}\left(1.6^{\prime \prime}\right)$ D x Handle Width: 45 mm (1.8") Head Width: 78 mm (3.1") Base: 61 mm (2.4") H x 204 mm ( $8.0^{\prime \prime}$ ) D x 107 mm ( $4.2^{\prime \prime}$ ) W |
| Interfaces | PC Keyboard Wedge, RS232, IBM 468X/469X, Stand Alone Keyboard, USB (low speed and full speed) |
| Light Source | Visible Laser Diode $650 \mathrm{~nm} \pm 10 \mathrm{~nm}$ |
| Weight | Scanner (with battery):199 g (7.0 oz); Base: 225 g (7.9 oz) |
| Shock | Designed to withstand $1.5 \mathrm{~m}\left(5^{\prime}\right)$ drops |

## mss524 Voyager PDF ${ }^{\text {TM }}$ \& mss544 Voyager PDF ${ }^{\text {TM }}$

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 ID \& 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 ${ }^{\circledR}$ data transmission technology

 as



## CodeGate



Sunrise 2005 Compliant

## SCANS 1D AND PDF-417 (2D) BAR CODES

 with or without CodeGateBar Code Minimum Element


quick specs

| Depth of Field | $0 \mathrm{~mm}-203 \mathrm{~mm}\left(0^{\prime \prime}-8^{\prime \prime}\right)$ for 0.33 mm ( 13 mil ) bar codes |
| :---: | :---: |
| Width of Field | $64 \mathrm{~mm}\left(2.5{ }^{\prime \prime}\right) @$ face; $249 \mathrm{~mm}\left(9.8^{\prime \prime}\right) @ 203 \mathrm{~mm}\left(8.0^{\prime \prime}\right)$ |
| Scan Speed | $180 \pm 10$ scan lines per second |
| Scan Pattern | Single scan line |
| Minimum Bar Width | 0.127 mm ( 5.0 mil ) |
| Dimensions | 198 mm ( $7.8^{\prime \prime}$ ) H x 40 mm ( $1.6^{\prime \prime}$ ) 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 (low speed and full speed) |
| Light Source | Visible Laser Diode $650 \mathrm{~nm} \pm 10 \mathrm{~nm}$ |
| Weight | 149 g (5.25 oz) |
| Shock | Designed to withstand $1.5 \mathrm{~m}\left(5^{\prime}\right)$ drops |

## Msss21 Voyager HD ${ }^{\text {TM }}$ <br> \& ms9541 Voyager $\mathrm{HD}^{\text {TM }}$

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 ID,
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 ${ }^{\circledR}$ data transmission technology


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## SCANS HIGH-DENSITY 1D BAR CODES with or without CodeGate

Scan Area


Bar Code Minimum Element


## quick specs

| Depth of Field | 0 mm - $102 \mathrm{~mm}\left(0^{\prime \prime}-4^{\prime \prime}\right)$ for 0.33 mm ( 13 mil ) bar codes; |
| :---: | :---: |
|  | $15 \mathrm{~mm}-35 \mathrm{~mm}\left(0.6^{\prime \prime}-1.4^{\prime \prime}\right)$ for $0.076 \mathrm{~mm}(3.0 \mathrm{mil})$ bar codes |
| Width of Field | $64 \mathrm{~mm}\left(2.55^{\prime \prime}\right)$ @ face; 157 mm (6.2") @ $102 \mathrm{~mm}\left(4.0^{\prime \prime}\right)$ |
| 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 ( $7.8^{\prime \prime}$ ) 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 (low speed and full speed) |
| Light Source | Visible Laser Diode $650 \mathrm{~nm} \pm 10 \mathrm{~nm}$ |
| Weight | 149 g (5.25 oz) |



## MetroSet 2 Software Utility

MetroSet ${ }^{\oplus} 2$ is a graphical programming utility that provides users with a Windows based tool for programming, formatting and flashing Metrologic POS and Industrial Scanners.

Simply select the scanner type from the list provided and enter MetroSet 2 to 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.

Bits n' Pieces is an easy to use data formatting utility designed to give users maximum flexibility when integrating with a host system.

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 calling 1-800-ID-METRO.


## MS9520 Voyager ${ }^{\bullet}$ \& ms9540 Voyager ${ }^{\text {G }}$

SCANS 1D BAR CODES - with or without CodeGate

## MS9521 \& MS9541 Voyage

SCANS HIGH DENSITY 1D BAF

- with or without CodeGate

OPERATIONAL

| Light Source | Visible Laser Diode $650 \mathrm{~nm} \pm 10 \mathrm{~nm}$ |
| :---: | :---: |
| Laser Power | 0.96 mW (peak) |
| Depth of Scan Field (program) | 0 mm - $203 \mathrm{~mm}\left(0^{\prime \prime}-8^{\prime \prime}\right)$ for 0.33 mm ( 13 mil ) bar codes |
| Width of Scan Field | $64 \mathrm{~mm}\left(2.5{ }^{\prime \prime}\right) @$ face; $249 \mathrm{~mm}\left(9.8^{\prime \prime}\right) @ 203 \mathrm{~mm}\left(8.0^{\prime \prime}\right)$ |
| Scan Speed | $72 \pm 2$ scan lines per second |
| Scan Pattern | Single scan line |
| Minimum Bar Width | 0.127 mm ( 5.0 mil ) |
| Decode Capability | Autodiscriminates all standard ID 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) |
| Print Contrast | $35 \%$ minimum reflectance difference |
| Number Characters | Up to 80 data characters |
| Roll, Pitch, Yaw | $42^{\circ}, 68^{\circ}$, $52^{\circ}$ |
| Beeper Operation | 7 tones or no beep |
| Indicators (LED) | Green=laser on, ready to scan; yellow = auto trigger mode active; red = good read |
| Profile Support | N/a |
| Bluetooth Version | N/a |

Visible Laser Diode $650 \mathrm{~nm} \pm 10 \mathrm{~nm}$
0.96 mW (peak)
$15 \mathrm{~mm}-35 \mathrm{~mm}\left(0.6^{\prime \prime}-1.4^{\prime \prime}\right)$ for $0.076 \mathrm{~mm}(3 \mathrm{mil})$ bar code 64 mm (2.5") @ face; 157 mm (6.2") @ 102 mm (4.0") $72 \pm 2$ scan lines per second

## Single scan line

0.076 mm ( 3.0 mil )

Autodiscriminates all standard ID bar codes, including RSS, for other symbologies call Metrologic
PC Keyboard Wedge, RS232, OCIA, Light Pen Emulation, № Emulation, IBM 468X/469X, Stand Alone Keyboard, USB (lo
$35 \%$ minimum reflectance difference
Up to 80 data characters
$42^{\circ}, 68^{\circ}, 52^{\circ}$
7 tones or no beep
Green=laser on, ready to scan; yellow=auto trigger mode
N/a
N/a
$198 \mathrm{~mm}\left(7.8^{\prime \prime}\right)$
$40 \mathrm{~mm}\left(1.6^{\prime \prime}\right)$
Handle $-45 \mathrm{~mm}\left(1.8^{\prime \prime}\right)$; Head $-78 \mathrm{~mm}\left(3.1^{\prime \prime}\right)$
$149 \mathrm{~g}(5.25 \mathrm{oz})$
10 pin modular RJ45
Standard $2.7 \mathrm{~m}\left(9^{\prime}\right)$ coiled; optional $2.1 \mathrm{~m}\left(7^{\prime}\right)$ straight

## $198 \mathrm{~mm}\left(7.8^{\prime \prime}\right)$

40 mm (1.6")
Handle - $45 \mathrm{~mm}\left(1.8^{\prime \prime}\right)$; Head - $78 \mathrm{~mm}\left(3.1^{\prime \prime}\right)$
149 g (5.25 oz)
10 pin modular RJ45
Standard $2.7 \mathrm{~m}\left(9^{\prime}\right)$ coiled; optional $2.1 \mathrm{~m}\left(7^{\prime}\right)$ straight
$5 \mathrm{VDC} \pm 0.25 \mathrm{~V}$
500 mW
110 mW
100 mA typical @ 5 VDC
22 mA typical @ 5 VDC
Class 2; 5.2 VDC @ 650 mA
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
N/a
N/a
N/a
N/a
N/a

## $0^{\circ} \mathrm{C}$ to $40^{\circ} \mathrm{C}\left(32^{\circ} \mathrm{F}\right.$ to $\left.104^{\circ} \mathrm{F}\right)$

$-40^{\circ} \mathrm{C}$ to $60^{\circ} \mathrm{C}\left(-40^{\circ} \mathrm{F}\right.$ to $\left.140^{\circ} \mathrm{F}\right)$
$5 \%$ to $95 \%$ relative humidity, non-condensing
Up to 4842 Lux ( 450 footcandles)
Designed to withstand $1.5 \mathrm{~m}\left(5^{\prime}\right)$ drops
Sealed to resist airborne particulate contaminants

## $0^{\circ} \mathrm{C}$ to $40^{\circ} \mathrm{C}\left(32^{\circ} \mathrm{F}\right.$ to $\left.104^{\circ} \mathrm{F}\right)$

$-40^{\circ} \mathrm{C}$ to $60^{\circ} \mathrm{C}\left(-40^{\circ} \mathrm{F}\right.$ to $\left.140^{\circ} \mathrm{F}\right)$
$5 \%$ to $95 \%$ relative humidity, non-condensing
Up to 4842 Lux (450 footandles)
Designed to withstand $1.5 \mathrm{~m}\left(5^{\prime}\right)$ drops
Sealed to resist airborne particulate contaminants

## MS9524 \& MS9544 Voyager PDF ${ }^{\text {™ }}$

## SCANS 1D AND PDF417 (2D) BAR CODES

- with or without CodeGate

Visible Laser Diode $650 \mathrm{~nm} \pm 10 \mathrm{~nm}$
0.96 mW (peak)
$0 \mathrm{~mm}-203 \mathrm{~mm}\left(0^{\prime \prime}-8^{\prime \prime}\right)$ for $0.33 \mathrm{~mm}(13 \mathrm{mil})$ bar codes
$64 \mathrm{~mm}\left(2.5^{\prime \prime}\right) @$ face; $249 \mathrm{~mm}\left(9.8^{\prime \prime}\right) @ 203 \mathrm{~mm}\left(8.0^{\prime \prime}\right)$
$180 \pm 10$ scan lines per second
Single scan line
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
PC Keyboard Wedge, RS232, OCIA, Light Pen Emulation, Non-decode
Emulation, IBM 468X/469X, Stand Alone Keyboard, USB (low speed and full speed)
$35 \%$ minimum reflectance difference
Up to 80 data characters on 1D; 1850 text characters on PDF417
$42^{\circ}, 68^{\circ}, 52^{\circ}$
13 tones or no beep
Blue $=$ laser on, ready to scan; yellow=auto trigger mode active; white $=$ good read
N/a
$\mathrm{N} / \mathrm{a}$

198 mm (7.8")
40 mm (1.6")
Handle - $45 \mathrm{~mm}\left(1.8^{\prime \prime}\right)$; Head - $78 \mathrm{~mm}\left(3.1^{\prime \prime}\right)$
149 g (5.25 oz)
10 pin modular RJ45
Standard $2.7 \mathrm{~m}\left(9^{\prime}\right)$ coiled; optional $2.1 \mathrm{~m}\left(7^{\prime}\right)$ straight
$5.2 \mathrm{VDC} \pm 0.25 \mathrm{~V}$
1500 mW
750 mW
300 mA typical @ 5.25 VDC
100 mA typical @ 5.25 VDC
Class 2; 5.2 VDC @ 650 mA
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
N/a
N/a
N/a
N/a
N/a

## $0^{\circ} \mathrm{C}$ to $40^{\circ} \mathrm{C}\left(32^{\circ} \mathrm{F}\right.$ to $\left.104^{\circ} \mathrm{F}\right)$

$-40^{\circ} \mathrm{C}$ to $60^{\circ}$ ( $\left(-40^{\circ} \mathrm{F}\right.$ to $140^{\circ} \mathrm{F}$ )
$5 \%$ to $95 \%$ relative humidity, non-condensing
Up to 4842 Lux ( 450 footandles)
Designed to withstand $1.5 \mathrm{~m}\left(5^{\prime}\right)$ drops
Sealed to resist airborne particulate contaminants

## ms9535 Voyager $\boldsymbol{B T}^{\text {tw }}$

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

```
Visible Laser Diode 650 nm \pm 10 nm
0.9 mW (peak)
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")
72 }\pm2\mathrm{ scan lines per second
Single scan line
0.127 mm (5.0 mil)
Autodiscriminates all standard ID bar codes, including RSS,
for other symbologies call Metrologic
PC Keyboard Wedge, RS232, Light Pen Emulation, Stand Alone Keyboard,
USB (low speed and full speed)
35% minimum reflectance difference
Up to }80\mathrm{ data characters
42}\mp@subsup{}{}{\circ},6\mp@subsup{8}{}{\circ},5\mp@subsup{2}{}{\circ
7 tones or no beep
Blue=laser on, ready to scan; yellow = auto trigger mode active; white= good read
Serial Port Profile (SPP)
vl.1 compliant
```

Scanner: $198 \mathrm{~mm}\left(7.8^{\prime \prime}\right)$; base: $204 \mathrm{~mm}\left(8.0^{\prime \prime}\right)$
Scanner: $40 \mathrm{~mm}\left(1.6^{\prime \prime}\right)$; base: $61 \mathrm{~mm}\left(2.4^{\prime \prime}\right)$
Scanner handle: $45 \mathrm{~mm}\left(1.8^{\prime \prime}\right)$, scanner head: $78 \mathrm{~mm}\left(3.1^{\prime \prime}\right)$; base: $107 \mathrm{~mm}\left(4.2^{\prime \prime}\right)$
Scanner (with battery) $199 \mathrm{~g}(7.02 \mathrm{oz})$; base: $225 \mathrm{~g}(7.94 \mathrm{oz})$
Base: 10 pin modular RJ45
Base: $2.1 \mathrm{~m}\left(7^{\prime}\right)$ straight

Base: $5.2 \mathrm{VDC} \pm 0.25 \mathrm{~V}$
Base: 0.6 W (typical); $1.4 \mathrm{~W}(\max )$
Base: 0.6 W
Scanner: $230 \mathrm{~mA}(\max ) @ 5 \mathrm{VDC}$; base: $65 \mathrm{~mA}(\max ) @ 5 \mathrm{VDC}$
Scanner: 30 mA typical @ 5 VDC
Scanner: none; base: Class 2; 5.2 VDC @ 2 A
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
2 A
2.5 hours

12,000 scans (max)
$10 \mathrm{~m}\left(33^{\prime}\right)$
2.4-2.48 GHz (frequency hopping)
$0^{\circ} \mathrm{C}$ to $40^{\circ} \mathrm{C}\left(32^{\circ} \mathrm{F}\right.$ to $\left.104^{\circ} \mathrm{F}\right)$
$-40^{\circ} \mathrm{C}$ to $60^{\circ} \mathrm{C}\left(-40^{\circ} \mathrm{F}\right.$ to $\left.140^{\circ} \mathrm{F}\right)$
$5 \%$ to $95 \%$ relative humidity, non-condensing
Up to 4842 Lux ( 450 footandles)
Designed to withstand $1.5 \mathrm{~m}\left(5^{\prime}\right)$ drops
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 soles, 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:
w w w. metrologic.com

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