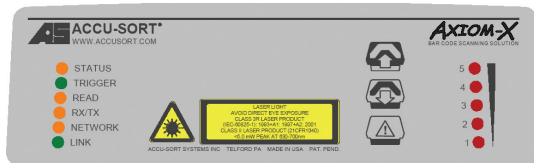# ACCU-SORT®

AXIOM-X™
Omnidirectional Laser Bar Code Reader

Highest Read Performance:
- Up to 1120 SPS; better than 2x scan rate of prior one-box omnidirectional readers
- Ensures the highest possible read rates on good and poor quality codes

Largest Coverage (maximum DOF):
- Scanning over 2 read zones
- No focusing required, no dead zones

Fastest Installation:
- AXCESS™ powerful, intuitive user interface
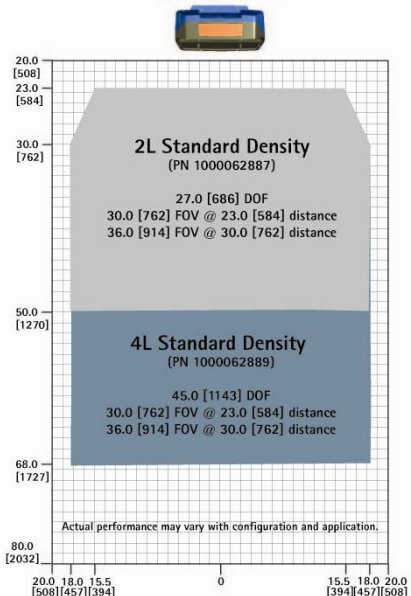- Modular Scan Head and Wiring Base

Easy "Plug and Play" Replacement:
- Parameter Storage Modules store the configuration in scan head and wiring base
- Modularity reduces downtime, simplifies replacement - no need to remember operating parameters!

Lowest Cost of Ownership:
- Flexible connectivity: EtherNet/IP, Ethernet TCP/IP, Serial and I/O all standard
- No maintenance (no fans or filters)

AXIOM-X Read Chart
(20 mil code size)

2L Standard Density
(PN 1000062887)

27.0 [686] DOF
30.0 [762] FOV @ 23.0 [584] distance
36.0 [914] FOV @ 30.0 [762] distance

4L Standard Density
(PN 1000062889)

45.0 [1143] DOF
30.0 [762] FOV @ 23.0 [584] distance
36.0 [914] FOV @ 30.0 [762] distance

20.0 [508]
23.0 [584]
30.0 [762]
50.0 [1270]
68.0 [1727]
80.0 [2032]

Actual performance may vary with configuration and application.

20.0 18.0 15.5   0   15.5 18.0 20.0
[508][457][394]   [394][457][508]

Omnidirectional scanning technology just got smaller... faster... and more accurate!

The AXIOM™ line of bar code scanning solutions are designed with industrial and manufacturing applications in mind. The AXIOM-X™ is Accu-Sort's new compact omnidirectional reader. Housed in a rugged IP54-rated enclosure, AXIOM-X offers high-speed scanning up to 1120 scans per second capable of handling the most demanding applications.

All AXIOM-X readers require a wiring base and plug-in scan head. The scan head is available in six versions; three for high-speed scanning in fast moving applications.

Sophisticated technology that's easy to use

Although technologically advanced, AXIOM-X is designed for easy setup and operation. AXCESS™ software provides a familiar user interface, enabling reader setup without the need for on-site service. Simply connect to AXIOM-X via setup cable or on-board Ethernet connection. Specify valid bar codes, groups, and patterns. Define your I/O—including built-in trigger and tach signals and up to four solid state relays. When complete, download the application settings to the reader and you're ready to go.

Built-in Parameter Storage Modules retain the operating parameters in both the scan head and wiring base. In the event replacement ever becomes necessary, just replace the scan head, and the correct parameters are installed with the push of a button.

Flexible connectivity... including built-in EtherNet/IP

Use AXCESS to configure and monitor your AXIOM-X readers from anywhere in your facility! The AXIOM-X provides several bar code data transfer options including: UDP messaging, operation as a TCP/IP client or server, and EtherNet/IP.

These features, along with comprehensive real-time performance monitors, make the AXIOM-X the leading bar code scanning solution in its class.
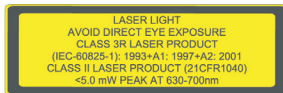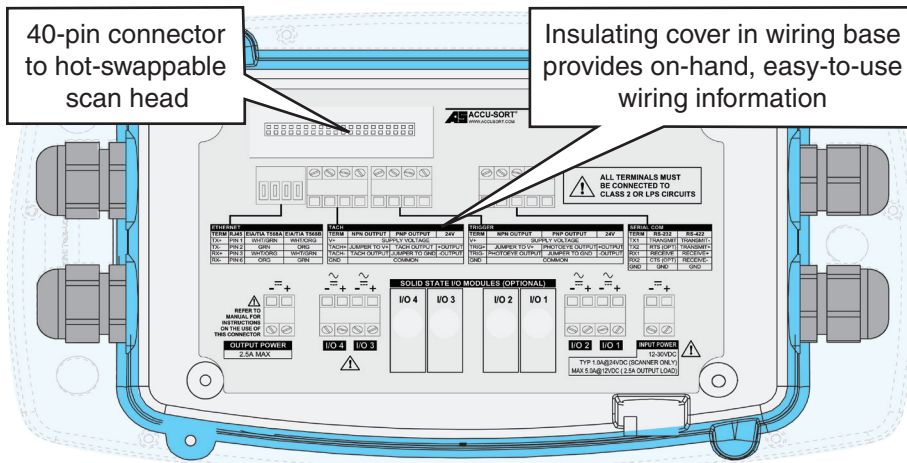
AXIOM-X™ Bar Code Scanning Solutions

Typical AXIOM-X bar code scanning solutions address these industries and applications:

- Parcel distribution
- Retail/wholesale distribution
- Airline baggage
- Tire manufacturing
- Multi-sided arrays
- High-speed parcel sortation
- High-speed material handling
- Manufacturing

Photo captions: (FROM TOP LEFT) AXIOM-X bar code reader, AXIOM-X control panel, modular scan head and wiring base shown with power supply and mounting bracket. On reverse: AXIOM-X wiring base with internal wiring diagram/cover.
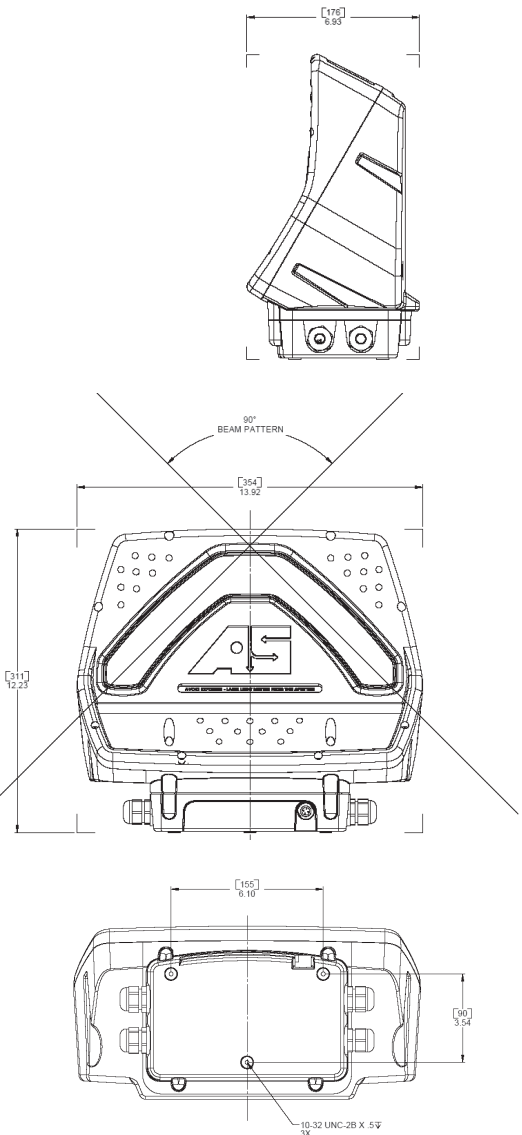
ACCU-SORT® SYSTEMS
Lasers • Cameras • RFID • Systems

AXIOM-X™ Omnidirectional Laser Bar Code Reader

40-pin connector to hot-swappable scan head

Insulating cover in wiring base provides on-hand, easy-to-use wiring information

LASER LIGHT
AVOID DIRECT EYE EXPOSURE
CLASS 3R LASER PRODUCT
(IEC-60825-1): 1993+A1: 1997+A2: 2001
CLASS II LASER PRODUCT (21CFR1040)
<5.0 mW PEAK AT 630-700nm

DRX® Decoding Technology by Accu-Sort Systems

EtherNet√IP™ conformance tested

Specifications

Characteristic	Description				
Name/Part Number	Omnidirectional Laser Bar Code Reader, AXIOM-X™				
PN/Specifications	Description	Part Number	Min. Bar	Depth of Field	Scans/ Second
2L	2L Standard	1000062887	15 mil+	25–45"	1000
	2L Medium	1000063502	13 mil+	28–42"	1000
	2L High-Density	1000062888	10 mil+	data n/a	1000
4L	4L Standard	1000062889	15 mil+	25–60"	500
	4L Medium	1000063503	13 mil+	28–56"	500
	4L High-Density	1000062890	10 mil+	data n/a	500
Size	H 12.23" [311 mm] x W 13.92" [354 mm] x D 6.93" [176 mm]				
Weight	Scan Head: 14.5 lbs [6.6 kg] Mounting Bracket: 4.1 lbs [1.9 kg] Wiring Base: 1.8 lbs [0.8 kg] Power Supply: 2.5 lbs [1.1 kg]				
Enclosure	Powder-coated cast aluminum, high-impact plastic, rated for IP54				
Temperature	Operating: +32° to +122° F [0° to +50° C] Storage: -4° to +158° F [-20° to +70° C]				
Relative Humidity	10% - 90% non-condensing				
Laser Type	Visible laser diode 650 nM (standard)				
Power Requirement	12–30 VDC (power supplies available from Accu-Sort)				
Power Consumption	<40 W				
Visual Indicators (LEDs)	Status, Trigger, Read, RX/TX, Network, Link; read quality (5 LEDs)				
Bar Code Types	All standard 1D symbologies				
Connectors	Dedicated setup port, optional RJ45 connector for Ethernet				
Communications	Standard: On-board EtherNet/IP, Ethernet TCP/IP, Serial RS232, RS422, and 4 programmable I/O relays Optional: DeviceNet, Profibus				
Options	Universal Mounting Bracket (UMB), height tracking photoeye kit, 120 or 240VAC power supply, heated wiring base				
MTBF	> 71,949 hours @ 86° F [30° C]				
Service Options	Installation assistance and on-site training				
Warranty	1-year limited, parts and labor				
Compliance	UL, cUL, CE, FCC (Class A), 21CFR1040, IEC-60825-1 *(pending)*				

* Actual performance may vary with configuration and application.

RFID ENABLED

For more information about auto-ID and material handling solutions from Accu-Sort Systems, contact us at:

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511 School House Road
Telford, PA 18969
1-800-BAR-CODE™

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