



APPLICATIONS

- Postal/Parcel sorting and tracking
- Automated warehousing identification systems
- Airport baggage sorting systems
- Cargo applications
- Receiving / shipping systems

ADVANTAGES

Highest possible read rates on good and poor quality codes

- Scanning over 2 read zones
- No focusing required, no dead zones

Fastest Installation:

- 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:

- No maintenance (no fans or filters)

HIGHLIGHTS

- Up to 1120 SPS; better than 2x scan rate of prior one-box omnidirectional readers
- AXCESS™ powerful, intuitive user interface
- Flexible connectivity: EtherNet/IP, Ethernet TCP/IP, Serial and I/O all standard

GENERAL DESCRIPTION

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.

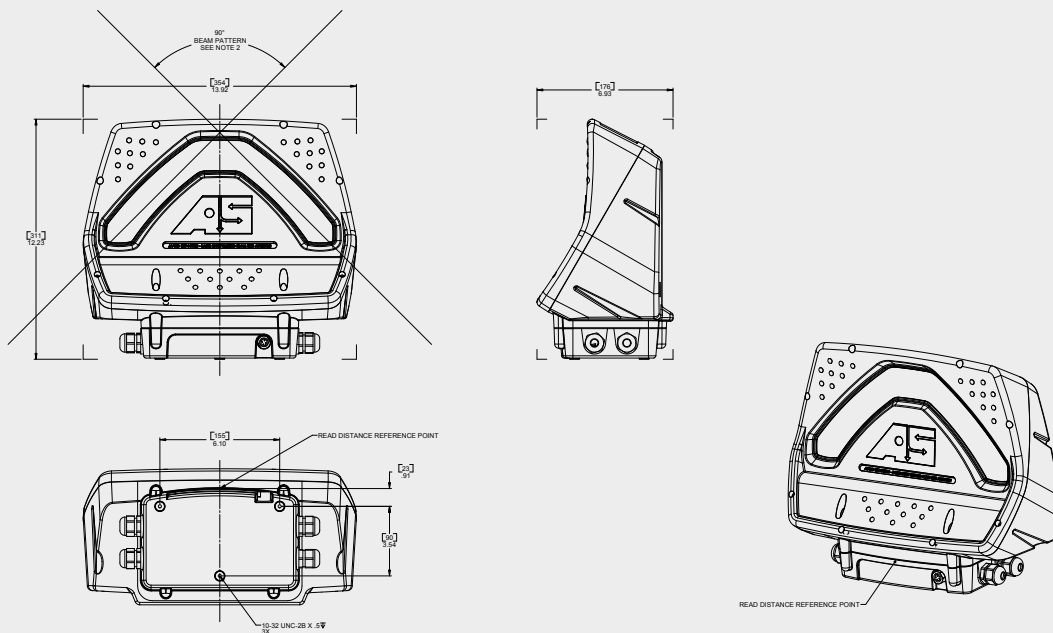
Flexible connectivity... including built-in EtherNet/IP

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.

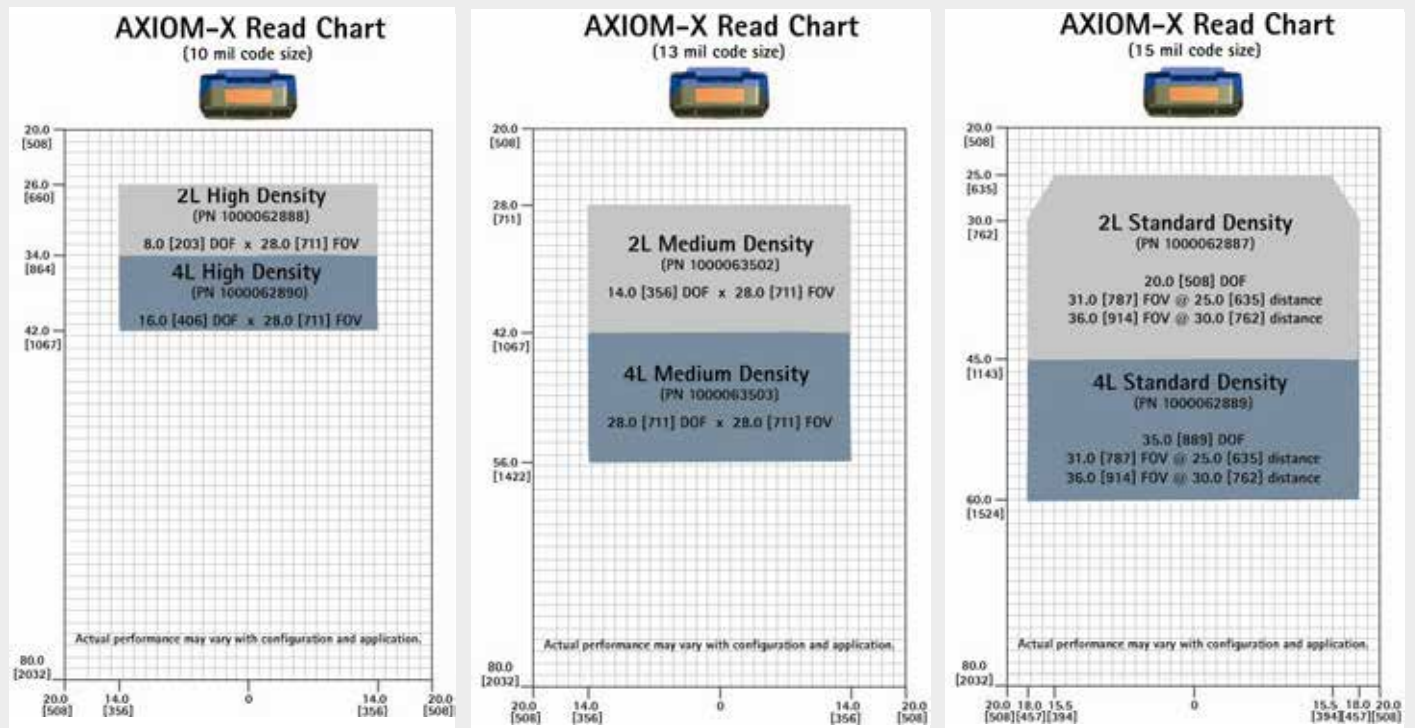
These features, along with comprehensive real-time performance monitors, make the AXIOM-X the leading bar code scanning solution in its class.



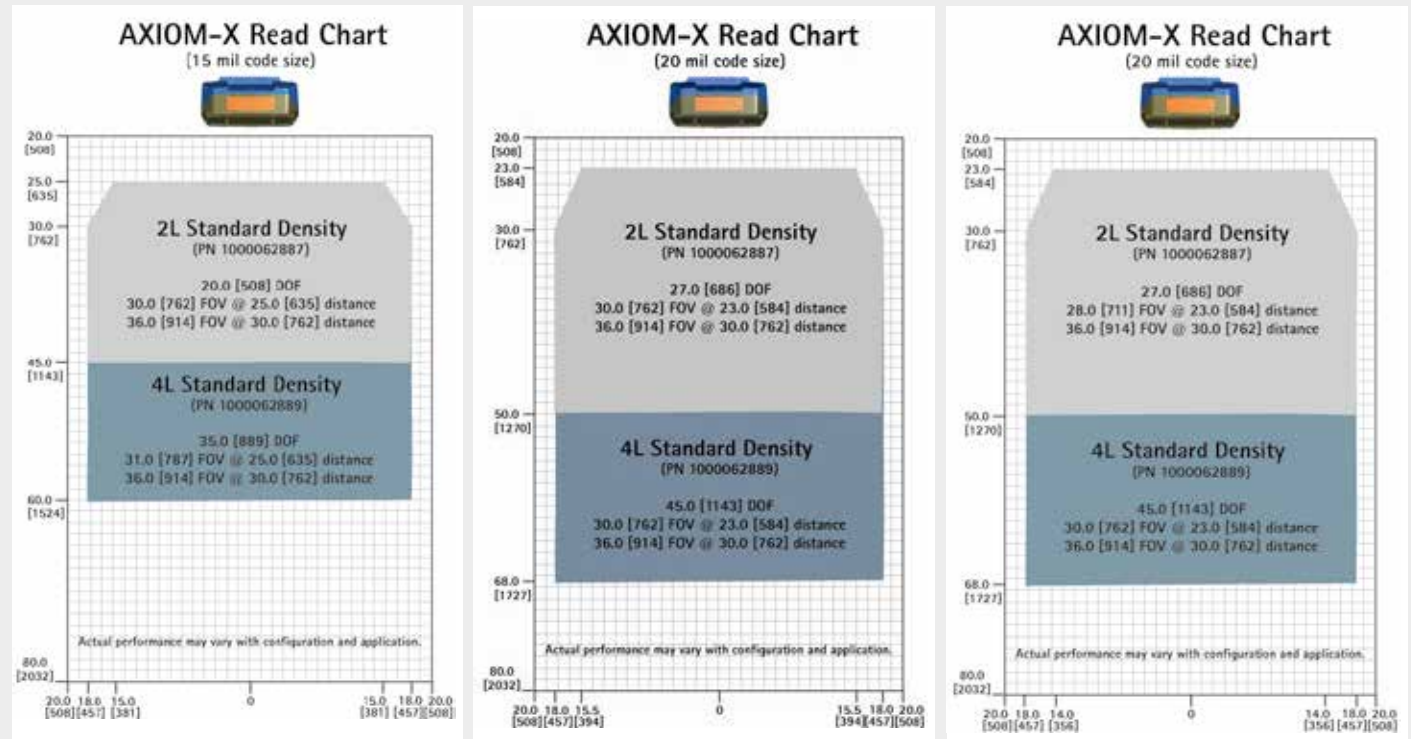
DIMENSIONS



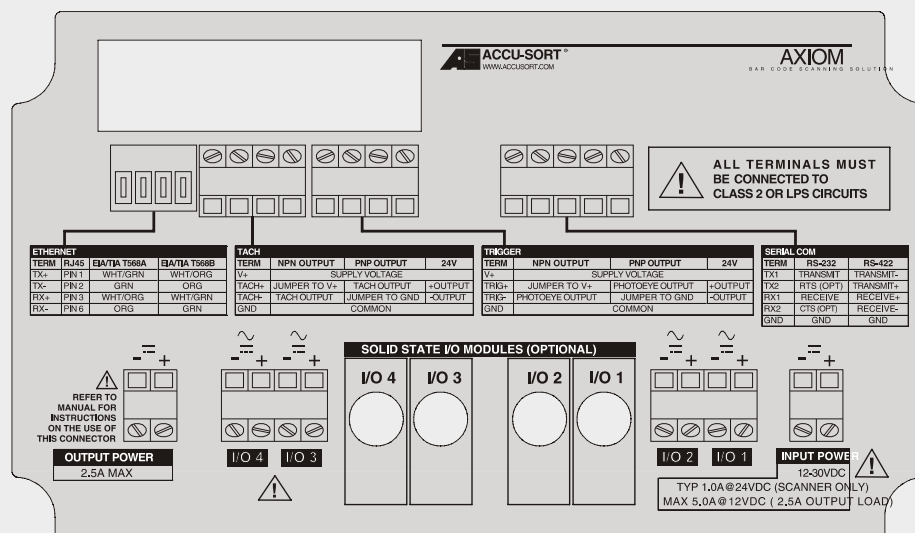
READING DIAGRAMS



READING DIAGRAMS



ELECTRICAL CONNECTIONS



TECHNICAL DATA

| | |
|-------------------------|--|
| Size | 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 |
| Communications 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] |
| Compliance | UL, cUL, CE, FCC (Class A), 21CFR1040, IEC-60825-1 |

MODELS

| | |
|------------|--|
| 1000062887 | AXIOM-X SCANNER,2-LASER,STANDARD |
| 1000062889 | AXIOM-X SCANNER,4-LASER,STANDARD |
| 1000062888 | AXIOM-X SCANNER,2-LASER HIGH DENSITY |
| 1000062890 | AXIOM-X SCANNER,4-LASER,HIGH DENSITY |
| 1000063502 | AXIOM-X SCANNER,2-LASER,MEDIUM DENSITY |
| 1000063503 | AXIOM-X SCANNER,4-LASER,MEDIUM DENSITY |

ACCESSORIES

| WIRING BASES | |
|----------------------|--|
| 0104636001 | ASSY, AXIOM WIRING BASE (US VERSION) |
| 1000069265 | AXIOM/AXIOM-X,PRE-ASSEMBLED,DOMESTIC WIRING BASE/IP40 POWER SUPPLY/UNIVERSAL MOUNTING BRACKET |
| 1000069266 | AXIOM/AXIOM-X,PRE-ASSEMBLED,INTERNATIONAL WIRING BASE/IP40 POWER SUPPLY/UNIVERSAL MOUNTING BRACKET |
| 1000069267 | AXIOM/AXIOM-X,PRE-ASSEMBLED,DOMESTIC WIRING BASE/IP65 POWER SUPPLY/UNIVERSAL MOUNTING BRACKET |
| 1000069268 | AXIOM/AXIOM-X,PRE-ASSEMBLED,INTERNATIONAL WIRING BASE/IP65 POWER SUPPLY/UNIVERSAL MOUNTING BRACKET |
| PROGRAMMING CABLES | |
| 1000007308 | CABLE, ADAPTASCAN SERIES B 8 FT PROGRAMMING |
| DISCRETE I/O MODULES | |
| 1000056135 | KIT, 3.3-32VDC INPUT MODULE |
| 1000056136 | KIT, 3-60VDC OUTPUT MODULE |
| 1000056137 | KIT,AXIOM 12-42VAC OUTPUT MODULE |
| MOUNTING EQUIPMENT | |
| 0105307002 | KIT, AXIOM MOUNTING BRACKET WITH POWER SUPPLY ADAPTER |
| 0111236001 | MOUNTING FRAME, STANDARD, SIDE READ, AXIOM & AXIOM-X |
| 0110352001 | MOUNTING STRUCTURE,STANDARD,TOP READ,AXIOM/AXIOM-X |
| POWER SUPPLY | |
| 0105365001 | 40 WATT 24V POWER SUPPLY (DOMESTIC) |
| 0105365002 | 40 WATT 24V POWER SUPPLY (INTERNATIONAL) |
| 0112591001 | KIT,POWER SUPPLY,40W,IP40,DOMESTIC,AXIOM/AXIOM-X |
| 0112591002 | KIT,POWER SUPPLY,40W,IP40,INTERNATIONAL,AXIOM/AXIOM-X |

TACHOMETER

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|------------|--|
| 1000019875 | TACHOMETER, PROGRAMMABLE W/ 20FT CABLE 8-30VDC |
| 1000020567 | KIT, TACHOMETER BRACKET GENERAL MOUNTING |

PHOTO EYE

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|------------|--|
| 1000020569 | KIT, FLYING LEAD PHOTO EYE Flying Leads, may also be used for start trigger PE in Start/End Trigger Appl |
| 1000063534 | KIT, HEIGHT TRACKING PHOTOEYE, 1 PHOTOEYE, 1 INPUT MODULE, AXIOM-X 4 ZONES order qty 3; 3 ZONES=qty 2 |
| 0112697001 | KIT, MOUNTING, 12IN, HEIGHT EYE, ADAPTER |
| 0112697002 | KIT, MOUNTING, 24IN, HEIGHT EYE, ADAPTER |
| 0112697003 | KIT, MOUNTING, 36IN, HEIGHT EYE, ADAPTER |

BLOWER ASSEMBLIES

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|------------|-----------------------------|
| 0106318001 | ASSY, BLOWER 120 VOLT AXIOM |
| 0106318002 | ASSY, BLOWER 230 VOLT AXIOM |

SCANNER UPGRADES

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|------------|--|
| 0111352001 | AXIOM-X MOUNTING ADAPTER FOR QUAD-X, MINI-X AND XLT200 REPLACEMENT |
| 0111328001 | CABLE ASSEMBLY, AXIOM TO QUAD-X & XLT200 ZONE |
| 0111329001 | CABLE ASSEMBLY, AXIOM TO QUAD-X, XLT200, MINI-X, M24I COMM |
| 0111330001 | CABLE ASSEMBLY, AXIOM TO MINI-X & 24I TACH |
| 0111331001 | CABLE ASSEMBLY, AXIOM TO MINI-X & 24I TRIGGER |
| 0111332001 | CABLE ASSEMBLY, AXIOM TO MINI-X & 24I ZONE |
| 0111333001 | CABLE ASSEMBLY, AXIOM TO QUAD-X & XLT200 TACH NPN |
| 0111334001 | CABLE ASSEMBLY, AXIOM TO QUAD-X & XLT200 TACH 24V |
| 0111335001 | CABLE ASSEMBLY, AXIOM TO QUAD-X & XLT200 TRIGGER NPN |
| 0111336001 | CABLE ASSEMBLY, AXIOM TO QUAD-X & XLT200 TRIGGER +24V |
| 0113601020 | CABLE ASSEMBLY STACK LIGHT TO AXIOM I/O CABLE |
| 0113607020 | CABLE ASSEMBLY AXIOM TO SCAN GUN COM CABLE |
| 0113608020 | CABLE ASSEMBLY AXIOM TO QUAD RELAY BOX DIGITAL I/O CABLE |

MUXLESS AIRPORT

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|------------|---|
| 1000065024 | HEARTBEAT CABLE ASSEMBLY, 8FT |
| 1000065025 | REMOTE DISPLAY CABLE ASSEMBLY, 15FT |
| 1000065026 | STACKLIGHT CABLE ASSEMBLY |
| 1000020542 | MATING CONNECTOR FOR HOST CABLE, 25-PIN MALE CE D CONNECTOR, SOLDER |
| 0111400001 | CABINET ASSEMBLY, AIRPORT DISTRIBUTION BOX (INTERNATIONAL) |
| 0111400004 | CABINET ASSEMBLY, AIRPORT DISTRIBUTION BOX (DOMESTIC) |
| 1000051919 | KIT, 115VAC POWER CORD W/ FLYING LEADS, 20FT |
| 1000051920 | KIT, 220VAC POWER CORD W/ FLYING LEADS, 20FT (NOT USED WITH AIRPORT DISTRIBUTION BOX) |
| 1000016277 | 40 CHARACTER EXTERNAL DISPLAY |
| 1000016280 | ASSEMBLY, POWER SUPPLY, 120V, EXTERNAL DISPLAY |
| 1000016283 | ASSEMBLY, POWER SUPPLY, 220V, EXTERNAL DISPLAY (NOT USED WITH AIRPORT DISTRIBUTION BOX) |
| 1000064910 | ROUTER, 8-PORT SWITCH, 10/100 ETHERFAST |
| 1000063529 | CABLE, 7FT, CAT5, RJ-45M TO RJ-45M, CROSSEVER, BLACK, NETWORK |

NETWORK CONNECTIONS

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|------------|---|
| 1000057419 | SWITCH, WORKGROUP, 8 PORT, ETHERFAST, 10/100 |
| 1000059304 | SWITCH, 5-PORT ETHERNET 10/100 DUAL SPEED |
| 1000051570 | CABLE, 10FT CAT5 RJ-45M TO RJ-45M CROSS-OVER GREY NETWORK |
| 1000051571 | CABLE, 20FT CAT5 RJ-45M TO RJ-45M CROSS-OVER BLUE NETWORK |
| 1000059543 | CABLE, RJ45 IP65, 4M, BLACK |
| 1000059541 | KIT, RJ45, ADAPTER, AXIOM |
| 1000060201 | KIT, RJ45 ADAPTER, METRIC |

QUAD RELAY BOX

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|------------|--|
| 1000071073 | KIT, QUAD RELAY OUTPUT, AXIOM |
| 1000017698 | QUAD RELAY BOX |
| 1000018663 | MODULE, SINGLE DC OUTPUT 5-60V, 3A MAX, RED |
| 1000018666 | MODULE, DRY CONTACT OUTPUT 130VAC, 0.5A, NORMALLY OPEN |
| 1000016570 | MODULE, SINGLE DC INPUT 10-32 VOLTS, WHITE |
| 1000016566 | MODULE, SINGLE AC INPUT 90-140 VOLTS, YELLOW |
| 1000018299 | KIT, 4PK, 1/4-20 EXTRUSION MOUNTING HARDWARE |