



Accu-Sort offers affordable omnidirectional scanning.

Accu-Sort's Mini-X Series II delivers the ultimate in low cost, high performance omnidirectional bar code scanning. Six available configurations guarantee the best possible fit to your application needs.

The Mini-X Series II is designed to be compatible with various communications methods, including Ethernet, Profibus, and DeviceNet.

The Mini-X Series II performs equally well in conveyor applications or where packages are manually passed under the scanner.

Six configurations meet your specific application needs:

- Mini-X Series II
- Mini-X Series II 3-Line
- Mini-X Series II Dual Zone
- Mini-X Series II VV
- Mini-X Series II Dual VV
- Mini-X Series II EC

The only moving part in most Mini-X Series II models is a brushless DC motor/mirror wheel. The laser diode, optics, and detector are sealed in a dust-tight compartment. The Mini-X Series II enclosure is NEMA 12-rated to perform in harsh industrial environments.


Two serial ports are provided along with input connectors for photoeyes and a tachometer. An optional multi-zone dynamic voice coil focusing option, or a dual-zone mirror wheel, is available to increase the depth of field.


DRX® and TachTrac®


Accu-Sort's patented DRX® decoding technology uses partial scans to reconstruct bar codes with 100% accuracy. DRX® enables low-aspect-ratio bar codes to be decoded, and improves read rates on damaged and poorly printed codes.

TachTrac® tracks boxes as they pass through the scan pattern, matching bar codes to the correct box. The transmit point is configurable based on the application requirements.

OUTSTANDING FEATURES

 DRX® decoding provides highest read rates by combining partial scans

 TachTrac® tracking provides higher throughput by allowing box spacing as small as 2 inches (5.1 centimeters).

 Single, long-life laser diode with thermoelectric cooler for enhanced reliability

 Small lightweight unit with self-contained decoder

Mini-X Series II



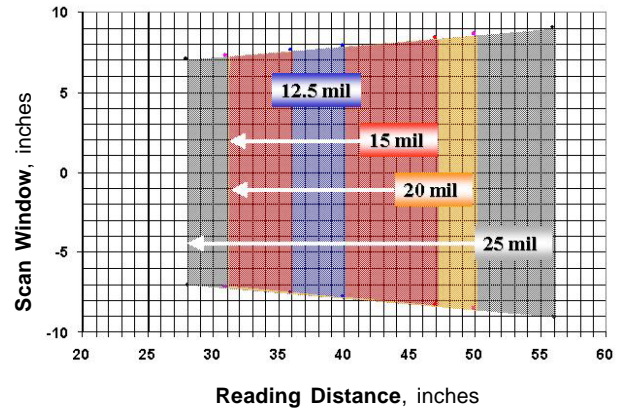
The standard model, with a single X pattern.

Scan Rate:

500 scans (1000 segments) per second standard
700 scans per second maximum

Coverage:

14" @ 28" (35.6cm @ 63.5cm) (from mounting surface)



Mini-X Series II Dual Zone



A special, patented dual-zone mirror wheel is available for the Mini-X which doubles the depth of field without mechanical focus.

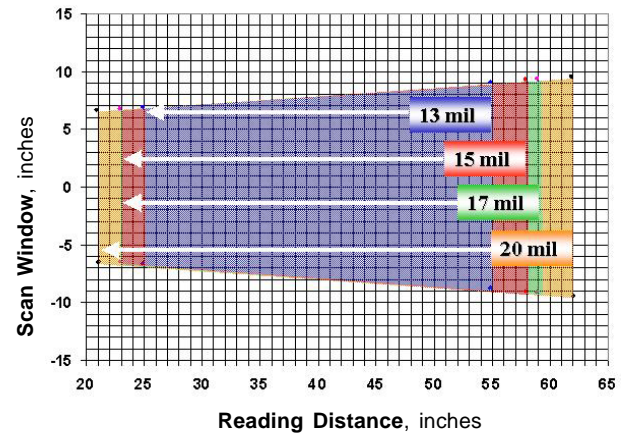
Scan Rate:

250 scans (1000 segments) per second standard
350 scans per second maximum

Coverage:

14" @ 25" (35.6cm @ 63.5cm) (from mounting surface)
20" @ 50" (50.8cm @ 127cm)

Note: Dual-zone mirror also available for Mini-X Series II 3 Line and Mini-X Series II VV scanners.



Mini-X Series II 3 Line



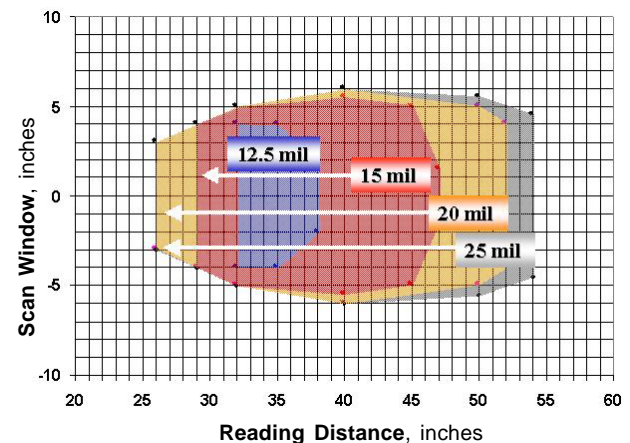
Three lines, for omnidirectional scanning of codes with small bar height.

Scan Rate:

500 scans (1500 segments) per second standard
700 scans per second maximum

Coverage:

6" @ 26" (15.2 cm @ 66.0 cm) (from mounting surface)
10" @ 40" (25.4 cm @ 101.6 cm)



Mini-X Series II EC



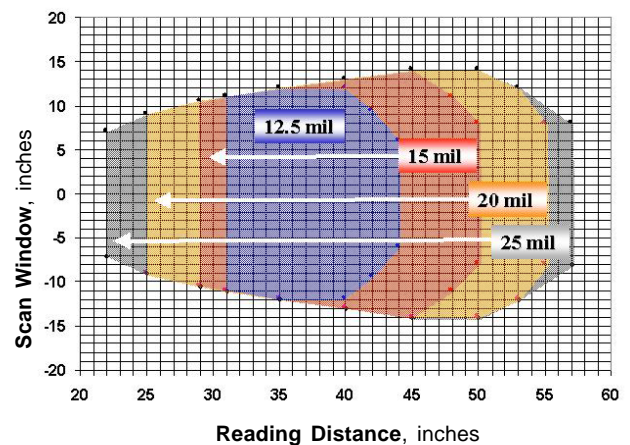
A larger scan pattern for wider conveyor coverage.

Scan Rate:

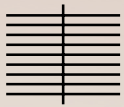
312 scans (625 segments) per second standard

Coverage:

18" @ 25" (45.7cm @ 63.5cm) (from mounting surface)
28" @ 50" (69.7cm @ 127cm)



Mini-X Series II VV



One leg is rastered with a vibrating vane. For reading codes which are predominantly in ladder or picket fence orientation. Also useful where boxes are manually passed under the scanner.

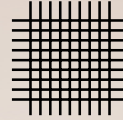
Scan Rate:

500 scans (1000 segments) per second standard
700 scans per second maximum

Coverage:

Application dependent - vibrating vane sweep distance and frequency are adjustable

Mini-X Series II Dual VV



Both legs are rastered with a vibrating vane. Useful where boxes are manually passed under the scanner, or where the bar code stops under the scan pattern.

Scan Rate:

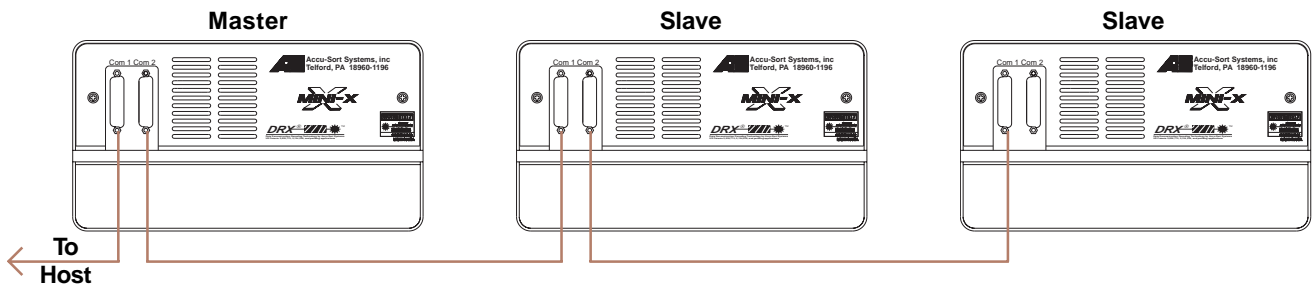
500 scans (1000 segments) per second standard
700 scans per second maximum

Coverage:

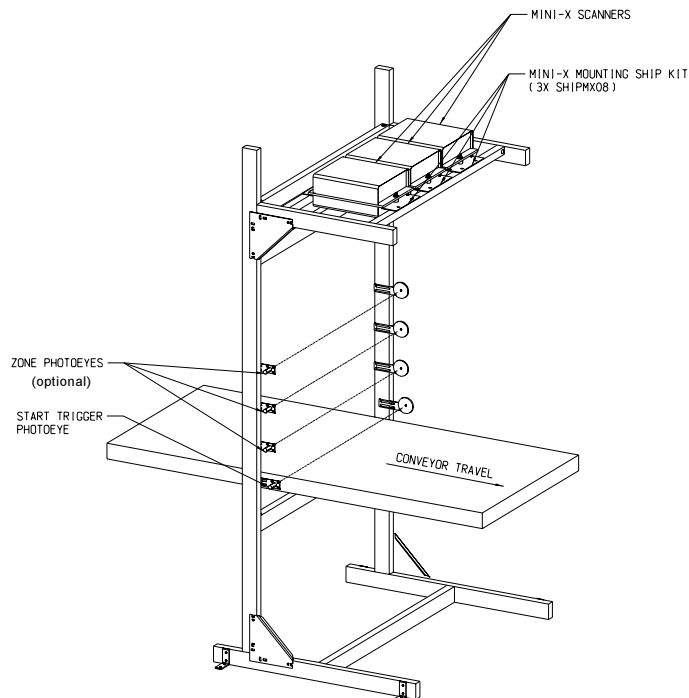
Application dependent - vibrating vane sweep distance and frequency are adjustable

Mini-X Series II Master/Slave Configurations

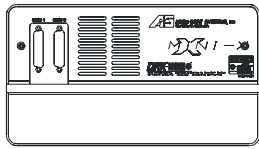
To widen the applicable scan window, multiple Mini-X Series II scanners can be mounted side-by-side in an overhead configuration. When configured this way, one Mini-X serves as the "master," and communicates with the "slave" units and the host device. Bar codes read by one or more master/slave units are transmitted to the host device by the master scanner. A sample configuration is shown below.



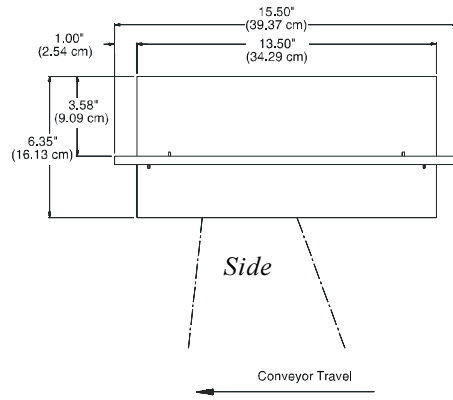
Standard Mounting Structure



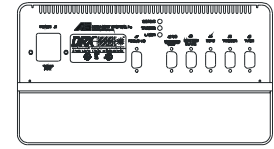
The MT007 standard mounting structure provides a low-cost, easy-to-install mounting solution. The assembly bridges conveyors up to a maximum width of 46" (116.84 cm). The single unit will accommodate one, two, or three Mini-X Series II scanners and all necessary photoeyes and tachometers necessary for your application.



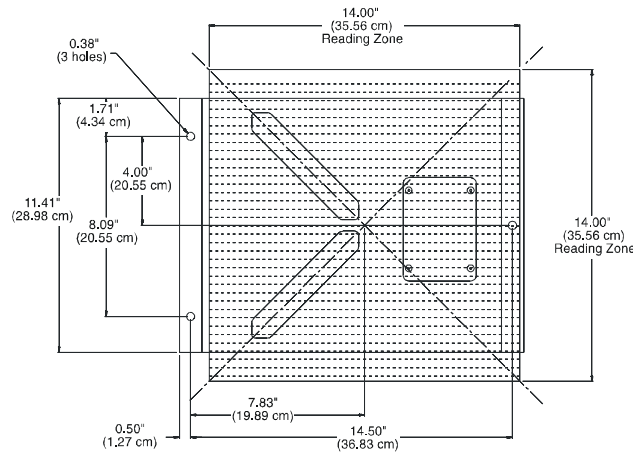
Back



Side



Front



Bottom

29732.003.v01



Product Specifications

Reading Parameters:

- Tilt: 360° (omnidirectional)
- Pitch and skew: up to 45° (application dependent)
- Depth of field: See read chart (application/bar code dependent)

Laser Type:

Solid state visible laser diode with thermoelectric cooler, 670nm, 10mW (635nm available)

Visual Diagnostics:

Trigger, laser on, power, read/no-read

Bar code types:

All standard 1D symbologies

Connectors:

- 2 Serial ports
- 1 I/O port
- 1 trigger input
- 1 tachometer input
- 2 form "A" relays

Power:

- 100-240 VAC
- 50/60 Hz
- 20 Watts

Weight:

21 lbs. (9.5 kg)

Relative Humidity:

20%-90% non-condensing

Temperature Range:

32°-122°F (0°-50°C)

Enclosure:

Aluminum with NEMA 12 (I.P. 54) rated optical compartment

Communications:

- Communication Ports
- RS-232
- RS-422
- RS-485
- Current Loop (com1 only)
- Ethernet
- Profibus
- DeviceNet

Options:

- Multi-zone dynamic focus
- One or two form "A" relay outputs
- Tachometer (for TachTrac®)
- Remote display
- Quad relay box

Safety approvals:

- UL, cUL, FCC Class A, CDRH Class II, CE mark

Service options:

- Installation assistance
- On-site training

Warranty:

2-year limited, parts and labor