ACCU-SORT®

Model 22 Series II
Laser Bar Code Scanner

Accu-Sort offers a robust and reliable solution for your fixed scanning needs.

Accu-Sort's Model 22 Series II provides medium range bar code scanning at an affordable price. The combination of die cast zinc-aluminium endcaps and an extruded body yields a strong enclosure for applications requiring durability. A rugged thread-on connector ensures reliable power coupling. The three-point mounting feature is incorporated in the product to create repeatable mounting in any application.

Using the decoder interface cable option, the Model 22 Series II is completely compatible with Allen-Bradley DS DD decoders, making the Model 22 Series II the perfect replacement for Allen-Bradley's obsolete LD and L series scanheads. If your decoder is ever decommissioned your Model 22 Series II will do the decoding for you!

Without any special adjustments, the standard Model 22 Series II reads most commonly printed bar codes and densities with working ranges from 4" to 36" (10.2 cm to 91.4 cm). Available with Accu-Sort's patented DRX® (Data Reconstruction) technology, the Model 22 Series II consistently decodes bar codes that would be NO READS with other scanners. In some applications, DRX eliminates the need for a raster scanner.

The Model 22 Series II uses an advanced RISC microprocessor to decode scanned data at a standard speed of 500 scans per second, with optional speeds up to 1200 scans per second.

The Model 22 Series II is easily configured using Accu-Sort's Windows®-based programming interface, Accu-Setup for Small Scanners. The unit can also be programmed online via the host computer. The standard configuration provides the user with auto-discrimination of eight bar code types. Optional configurations provide high density, long range, or high speed capabilities.
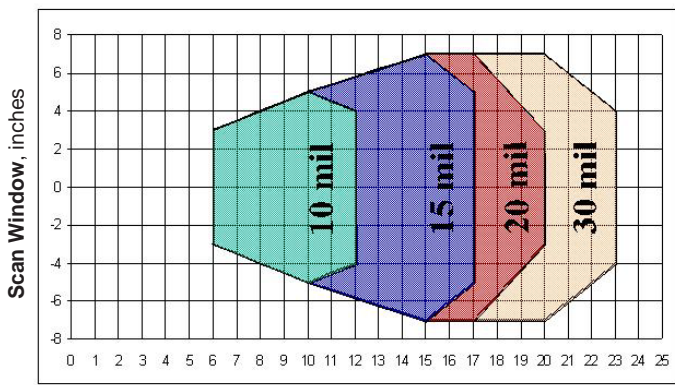
Two serial ports offer connection to the host computer, an optional display, or other serial devices. Two parallel TTL outputs, selectable for valid/non-valid codes, provide signals to operate optional relays.

Typical applications include:
- Tray label scanning
- Package content verification and counting
- Product identification and sortation
- Pharmaceutical label verification
- Automatic tracking of production items

OUTSTANDING FEATURES

- **Preset scanning distance lets you read all bar code densities without optical adjustment**

- **Integrated decoder and compact size for mounting in the tightest spaces**

- **Variety of optional mounting kits make installation fast and easy**

- **Accu-Setup for Small Scanners provides easy-to-use Windows®-based scanner setup**

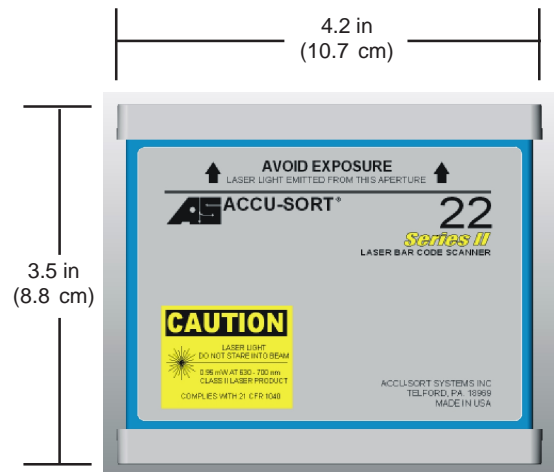- **Optional EM-50 expansion module provides power and terminal block connections**

Solutions with vision®

Accu-Sort® Systems, inc. • 511 School House Road • Telford • PA • 18969
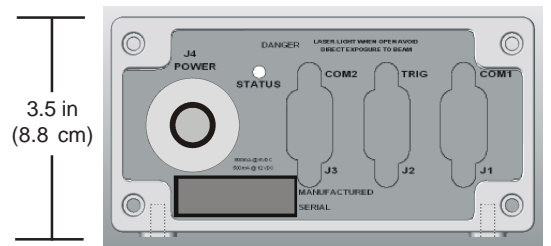
Reading Distance, inches

Note: This chart shows reading characteristics for the standard Model 22-A only. Other models are Model 22-B (High Density), Model 22-C (High Speed), and Model 22-D (Long Range). For further information about other configurations, please contact your Accu-Sort sales representative.

Narrow Element Width	Reading Range	Depth of Field	Maximum Scan Window
10.0 mil (0.25 mm)	6"-12" (152 mm-305 mm)	6" (152 mm)	10" @ 10" (254 mm @ 254 mm)
15.0 mil (0.35 mm)	6"-17" (152 mm-432 mm)	11" (279 mm)	14" @ 15" (356 mm @ 381 mm)
20.0 mil (0.50 mm)	6"-20" (152 mm-508 mm)	14" (356 mm)	14" @ 15" (356 mm @ 381 mm)
30.0 mil (0.76 mm)	6"-23" (152 mm-584 mm)	17" (432 mm)	14" @ 15" (356 mm @ 381 mm)

Product Specifications

CAUTION
LASER LIGHT
DO NOT STARE INTO BEAM
0.95 mW AT 630 - 700 nm
CLASS II LASER PRODUCT
COMPLIES WITH 21 CFR 1040

4.2 in (10.7 cm)

3.5 in (8.8 cm)

Front View

3.5 in (8.8 cm)

Connector Panel

Scan Rate:
500 scans per second (standard)
300 scans per second (high density)
400 scans per second (long range)
800 scans per second (high speed)
1200 scans per second (custom)

Depth of Field:
See above

Laser Type:
Visible laser diode 650nm (standard)

Visual Diagnostics:
Power, trigger, good read, no read

Bar Code Types:
All standard 1D symbologies

Connectors:
Host port
Secondary port
Trigger port
Power

Size:
Length - 3.5" (8.8 cm)
Width - 4.2" (10.7 cm)
Height - 2.2" (5.6 cm)

Weight:
22 oz (0.62 kg)

Temperature Range:
32°-122°F (0°-50°C)

Relative Humidity:
10%-90% non-condensing

Enclosure:
NEMA 12 standard

Power:
5 VDC @ 500 mA
12 VDC @ 500 mA

Communications:
Programmable I/O
RS-232
RS-422
RS-485 multidrop
Current loop (optional)
DeviceNet

Options:
Interface box with relays
Patented DRX (data reconstruction)
Raster mirror wheel
External dynamic raster
Interface to A-B Decoders

Approvals:
CE, UL1950, cUL, FCC Class A,
CDRH Class II

Service Options:
Installation assistance
On-site training

Warranty:
1-year limited, parts and labor

Accu-Sort reserves the right to change specifications without notice