# ACCU-SORT®     Model 22 Series II

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

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

**Mounting kits** - a variety of options make installation fast and easy

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

**EM50 expansion module option**-provides power and terminal block connections

### Scan Window

Distance from scanner (inches)

10 mil
15 mil
20 mil
30 mil

Actual performance may vary with configuration and application.

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

## Overview

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 compatible with Allen-Bradley DS DD decoders, making it 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!
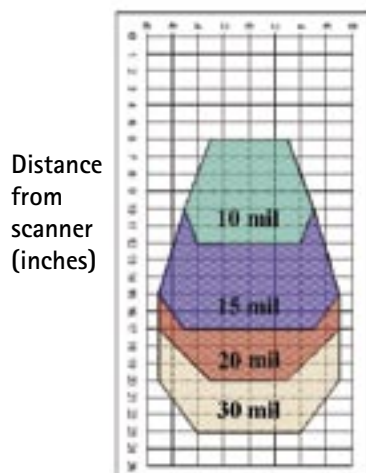
Without any special adjustments, the standard Model 22 Series II reads most commonly printed bar codes and densities with working ranges from 4" to 36" (10.2 cm to 91.4 cm). Available with Accu-Sort's patented DRX® (Data Reconstruction) technology, the Model 22 Series II consistently decodes bar codes 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 advanced RISC microprocessing to decode scanned data at a standard speed of 500 scans per second (SPS), with optional speeds up to 1200 SPS.

The Model 22 Series II is easily configured using the Accu-Setup for Small Scanners programming interface. The unit can also be programmed online via the host computer. The standard configuration provides autodiscrimination 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.
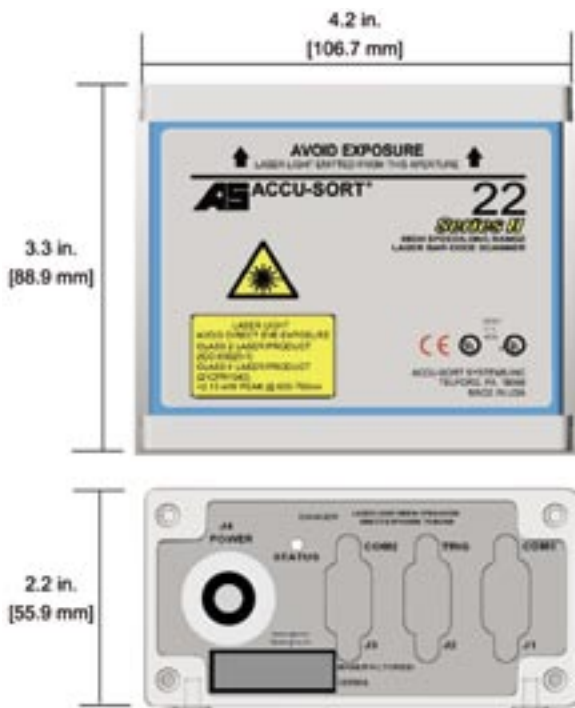
## Typical Applications

The Model 22 Series II addresses these industries and applications:

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

**Photo captions:** (TOP) An isometric view of the Model 22 II. (LEFT) Model 22 Series II read chart.

**ACCU-SORT® SYSTEMS**
*Lasers • Cameras • RFID • Systems*

# Model 22 Series II Laser Bar Code Reader



4.2 in. [106.7 mm]
3.3 in. [88.9 mm]
2.2 in. [55.9 mm]

**AVOID EXPOSURE** LASER LIGHT EMITTED FROM THIS APERTURE
ACCU-SORT® 22 Series II
HIGH SPEED/MID RANGE LASER BAR CODE SCANNER

LASER LIGHT AVOID DIRECT EYE EXPOSURE CLASS 2 LASER PRODUCT ACCU-SORT® CLASS II LASER PRODUCT (21CFR1040) <2.15 mW PEAK @ 630-700nm

ACCU-SORT SYSTEMS INC. TELFORD, PA 18969 MADE IN USA

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

LASER LIGHT
DO NOT STARE INTO THE BEAM
CLASS 2 LASER PRODUCT
(IEC-60825-1):
1993+A1: 1997+A2: 2001
CLASS II LASER PRODUCT
(21CFR1040)
<2.15 mW PEAK @ 630-700nm

See Read Chart on other side.

| Narrow Element Width | Reading Range | Depth of Field | Maximum Scan Window |
|---|---|---|---|
| 10.0 mil [0.25mm] | 6.0"-12.0" [152-305mm] | 6.0" [152mm] | 10.0" [254mm] @ 10.0" [254mm] |
| 15.0 mil [0.38mm] | 6.0"-17.0" [152-432mm] | 11.0" [279mm] | 14.0" [356mm] @ 15.0" [381mm] |
| 20.0 mil [0.50mm] | 6.0"-20.0" [152-508mm] | 14.0" [356mm] | 14.0" [356mm] @ 15.0" [381mm] |
| 30.0 mil [0.76mm] | 6.0"-23.0" [152-584mm] | 17.0" [432mm] | 14.0" [356mm] @ 15.0" [381mm] |

**DRX** Decoding Technology by Accu-Sort Systems

## Specifications

| Characteristic | Description |
|---|---|
| Name/Part Number | Laser Bar Code Reader, Model 22 Series II |
| Depth of Field | See table above and read chart on other side |
| Scan Rate | Standard: 500 SPS    High Density: 300 SPS    Long Range: 400 SPS   High Speed: 800 SPS    Custom: 1200 SPS |
| Communications | Standard: Programmable I/O (RS232/422/485 multidrop)    Optional: DeviceNet (w/EM50), current loop |
| Baud Rate | Max. 38.4K |
| Options | Interface box with relays, Patented DRX, Raster mirror wheel , External dynamic raster, Interface to A-B Decoders |
| 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) | Power, trigger, good read, no read |
| Bar Code Types | All standard 1D symbologies |
| Connectors | Host port, Secondary port, Trigger port, Power |
| Weight | 22 oz. [0.62 kg] |
| Size | L 3.5" [88.9 mm] x W 4.2" [106.7 mm] x H 2.2" [55.9 mm] |
| Housing | Powder-coated cast aluminum, rated for IP54, NEMA 12 |
| Warranty | 1-year limited, parts and labor |
| Service Options | Installation assistance and on-site training |
| Compliances | CE, UL1950, cUL, FCC Class A, D    CDRH 21 CFR 1040 Class II    IEC60825-1: 2001 Class 2, IEC60825-1: 2001 Class 3R |

**RFID ENABLED**

**ENCOMPASS** ROCKWELL AUTOMATION AMERICAS PARTNER

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**
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Accu-Sort reserves the right to change specifications without notice.