



Accu-Sort offers an answer for your fixed position scanning needs – the Model 20!

As the leader in fixed position bar code scanners, Accu-Sort offers one in its line of inexpensive moving beam scanners: the Model 20.

The Model 20's state-of-the-art scanning optics are designed to take the guesswork out of fixed position scanning applications. The unit's flexibility and performance allows the Model 20 to read the most commonly used bar code densities at pre-defined mounting distances.

Using surface mount technology, a solid-state laser, and a brushless DC motor, we have designed a scanning system into the smallest package available. The NEMA 12 extruded aluminum enclosure measures just 2.6" x 2.1" x 1.4" (6.6 cm x 5.3 cm x 3.6 cm) and provides protection for internal components in almost any harsh industrial environment.

The Model 20 uses an advanced RISC microprocessor to decode scanned data at very high rates and perform various ap-

plication functions. The standard configuration provides 13 code types with auto-discrimination of eight bar code symbologies at once. Two parallel outputs selectable for valid and non-valid codes provide external signals to operate small relays.

Our Accu-Setup for Small Scanners program provides easy-to-use Windows-based scanner setup (CRT or host on-line commands are also available). The Model 20 communicates to the host via RS-232-C, RS-422, RS-485 multidrop, or optional 20mA current loop (active or passive).

The compact Model 20 optical decoding and I/O features can accommodate a wide variety of scanning applications. Its small size and single power source enable easy integration into automatic test equipment, blood and chemical analyzers, document scanning systems, print verification, or any fixed position bar code scanning application requiring low-cost non-contact bar code scanners.

Typical applications include:

- Automated and manual medical specimen tracking
- Package content verification
- Automated document handling
- Bar code verification during the printing and binding process

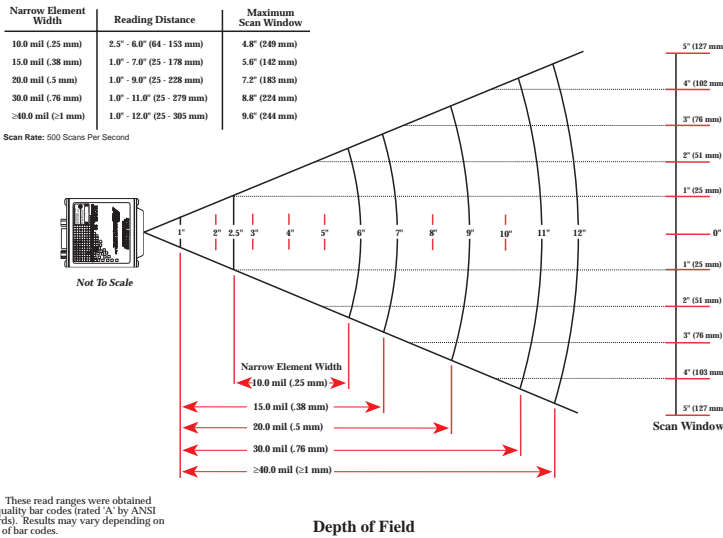
OUTSTANDING FEATURES

- ▶ **Compact size and integrated decoder allow for easy integration even in the tightest spaces**
- ▶ **High scan rate increases flexibility, productivity, and efficiency**
- ▶ **Wide scan angle allows bar code scanning even at a close distance**
- ▶ **Reads all bar code densities at a pre-determined mounting distance without the need for optical adjustment**
- ▶ **Optional EM-50 expansion module provides power and terminal block connections**

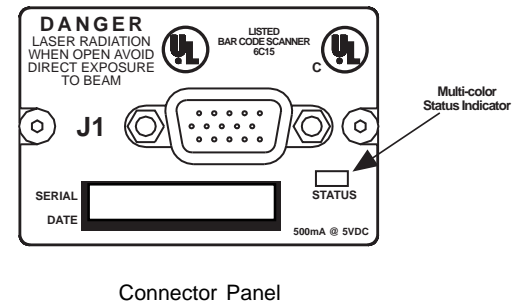
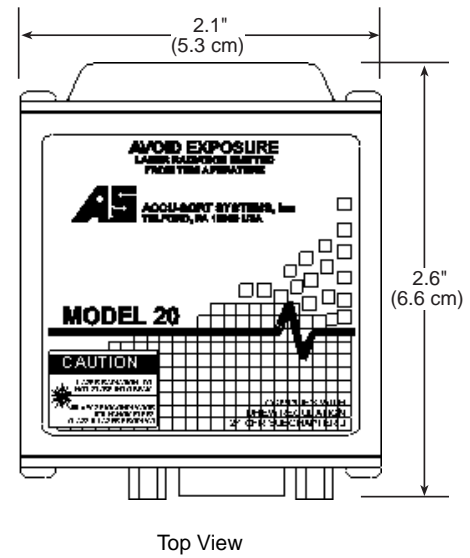
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Standard Scan Head - Optical Performance (Model Number M20A)



Note: This chart shows reading characteristics for the standard Model 20-A only. Other models are Model 20-B (High Density) and Model 20-C (High Speed). For further information about other configurations, please contact your Accu-Sort sales representative.



Product Specifications



Scan Rate:

500 scans per second (standard)
300 scans per second (high density)
700 scans per second (high speed)

Size:

Length - 2.6" (6.5 cm)
Width - 2.1" (5.4 cm)
Height - 1.4" (3.6 cm)

Communications:

RS-232
RS-422
RS-485
Current loop (with interface box option)

Depth of Field:

See above

Weight:

5 oz (140 g)

Laser Type:

Visible laser diode 670nm

Temperature Range:

32°-104°F (0°-40°C)

Visual Diagnostics:

Power, trigger, laser, go/no read

Relative Humidity:

10%-90% non-condensing

Bar Code Types:

All standard 1D symbologies

Enclosure:

NEMA 12 standard

Connectors:

Power
Photoeye
Communications
15-pin connector

Power:

5 VDC @ 500 mA

Options:

Interface box with relays
Patented DRX (Data Reconstruction)
Presence detector
Power supply

Approvals:

UL, C-UL, CE

Service Options:

Installation assistance
On-site training

Warranty:

1-year limited, parts and labor

Accu-Sort reserves the right to change specifications without notice

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