ACCU-SORT®

Model 10
Bar Code Scanner

Accu-Sort's lowest cost scanning solution for embedded and material handling applications.

The Model 10, another high performance Accu-Sort line scanner, combines impressive optical performance with useful electrical features in an extremely compact, rugged housing.

With its advanced optical design, the Model 10 can handle almost any line scanning application. A wide scan angle coupled with powerful A/D circuitry provides an extremely large performance envelope for any given bar code.

The Model 10's rugged, NEMA 4 (I.P. 65) rated die cast zinc enclosure, small size, zero-clearance cable exit, and versatile mounting brackets combine to make mounting a breeze.

And our new Windows-based configuration software simplifies setup, getting you up and running faster than ever.

The Model 10 has a flexible design for integration into a wide range of systems. Simplified connections allow the Model 10 to install into existing environments with minimal changes.

Two solid-state current limited internal relays are included for good-read/no-read or custom outputs, and a signal strength bar graph meter provides at-a-glance checks on the status of the unit.

Other useful features include external pushbutton diagnostics, fault-tolerant inputs and outputs, and a functional block diagram on the bottom of the unit to ease in installation.

Options: raster mirror wheels, an external relay box with industry-standard I/O modules, and a remote display.

Typical applications include:
- *Automated document handling*
- *Pharmaceutical code verification*
- *Data cassette retrieval systems*
- *Medical specimen tracking*

Evaluation kits are available. Call 1-800-BAR-CODE for more information.
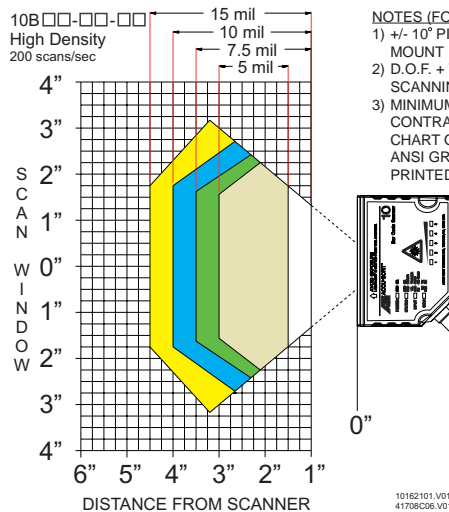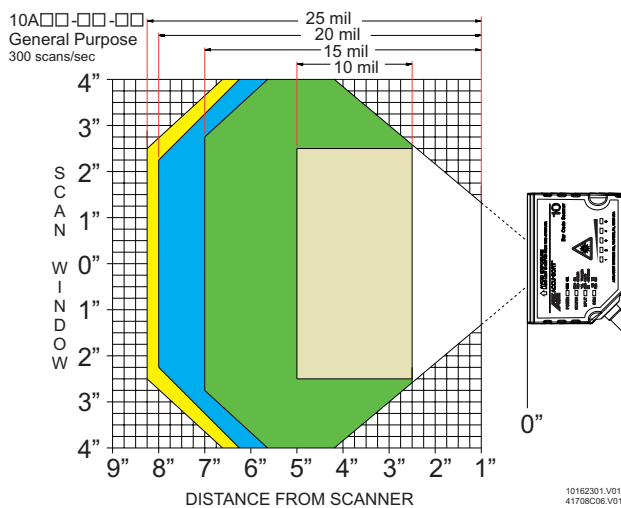
OUTSTANDING FEATURES

▶ **300 scans per second**

▶ **Signal strength bar graph meter displays scanner performance**

▶ **Windows-based configuration software helps get your scanner on line in a hurry**

▶ **Stainless steel mounting brackets and conversion kits for competitive products**

Solutions with vision®

10A☐☐-☐☐-☐☐
General Purpose
300 scans/sec

25 mil
20 mil
15 mil
10 mil

SCAN WINDOW

4" 3" 2" 1" 0" 1" 2" 3" 4"

0"

9" 8" 7" 6" 5" 4" 3" 2" 1"

DISTANCE FROM SCANNER

10162301.V01
41708C06.V01

10B☐☐-☐☐-☐☐
High Density
200 scans/sec

15 mil
10 mil
7.5 mil
5 mil

SCAN WINDOW

4" 3" 2" 1" 0" 1" 2" 3" 4"

0"

6" 5" 4" 3" 2" 1"

DISTANCE FROM SCANNER
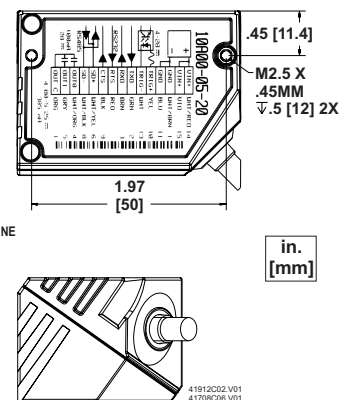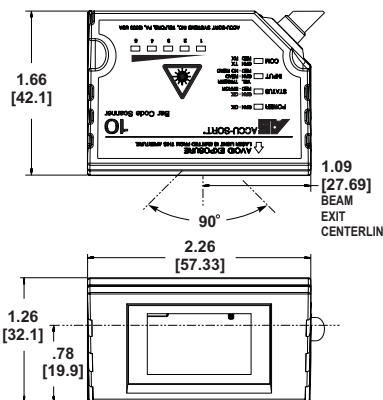
10162101.V01
41708C06.V01

NOTES (FOR BOTH CHARTS):
1) +/- 10° PITCH, +/- 20° SKEW. (DO NOT MOUNT @ 0° SKEW)
2) D.O.F. + WINDOW BASED ON ≥ 96% SCANNING EFFICIENCY
3) MINIMUM ALLOWABLE PRINT CONTRAST SIGNAL (PCS): 75%. READ CHART OBTAINED USING CODE 39 ANSI GRADE "A" BAR CODES. LASER PRINTED, BLACK ON WHITE. RESULTS MAY VARY DEPENDING ON SYMBOLOGY AND CODE QUALITY.
4) 80° SCAN ANGLE.

"x" element	
mil	mm
5	0.127
7.5	0.191
10	0.254
15	0.381
20	0.508
25	0.635

read chart	
in	mm
1	25.4
2	50.8
3	76.2
4	101.6
5	127.0
6	152.4
7	177.8
8	203.2
9	228.6

Narrow Element Width	Reading Range	Depth of Field	Maximum Scan Window
10.0 mil (.25mm)	2.5"-5" (63.5-127mm)	2.5" (63.5mm)	5.0" (127mm) @ 2.8" (71mm)
15.0 mil (.38mm)	1"-7" (25.4-178mm)	6" (152)	8.0" (203mm) @ 4.6" (116mm)
20.0 mil (.50mm)	1"-8" (25.4-203mm)	7" (178)	8.0" (203mm) @ 4.6" (116mm)
25.0 mil (.88mm)	1"-8.25" (25.4-210mm)	7.25" (184mm)	8.0" (203mm) @ 4.6" (116mm)

Narrow Element Width	Reading Range	Depth of Field	Maximum Scan Window
5.0 mil (.13mm)	1.5"-3" (38.1-76.2mm)	1.5" (38.1mm)	3.9" (99mm) @ 2.1" (53mm)
7.5 mil (.19mm)	1"-3.5" (25.4-88.9mm)	2.5" (63.5mm)	4.25" (107mm) @ 2.37" (60mm)
10.0 mil (.25mm)	1"-4" (25.4-101.6mm)	3" (76.2mm)	4.8" (122mm) @ 2.6" (66mm)
15.0 mil (.38mm)	1"-4.5" (25.4-114.3mm)	3.5" (88.9mm)	5.6" (142mm) @ 3.3" (84mm)

LASER LIGHT
DO NOT STARE INTO BEAM
CLASS 2 LASER PRODUCT (IEC.)
2.0mW PEAK AT 650nM.
COMPLIES TO:
EN 60825-1: 1994-21CFR1040

S/N: 00018479
MANUFACTURED: MARCH 2000

1.66 [42.1]
1.09 [27.69] BEAM EXIT CENTERLINE
90°
2.26 [57.33]
1.26 [32.1]
.78 [19.9]

.45 [11.4]
M2.5 X .45MM ↧.5 [12] 2X
10R00-05-20
1.97 [50]

in. [mm]

41912C02.V01
41708C06.V01

Product Specifications

Scan Rate:
200-300 scans per second

Depth of Field:
See read charts
(application/bar code dependent)

Laser Type:
Laser diode (650nm, 7 mW)

Visual Diagnostics:
Power, Transmit/Receive, Status, Trigger/GO/NVC, five segment LED bar graph

Bar code types:
All standard 1D symbologies

Connectors:
Pigtail cable with three standard configurations

Weight:
0.40 lbs (0.18 kg)

Size:
Length - 1.7" (43 mm)
Width - 2.3" (58 mm)
Height - 1.3" (33 mm)

Temperature Range:
32°-120°F (0°-50°C)

Relative Humidity:
10%-90% non-condensing

Enclosure:
NEMA 4 (IP65)

Power:
5VDC or 10-30 VDC

Scanning Element:
6 facet polygon

Scan Angle:
+/- 40 degrees

Communications:
Serial Interfaces, up to 115.2K baud
RS232 with RTS/CTS support
RS485 Multidrop
RS422 Half-duplex (2 wire)
I/O
Trigger input (5-30VDC, optically isolated)
2 outputs (current limited 100 mA, optically isolated)

Options:
Small Scanner Interface
EM-50 Scanner Expansion Module
Mounting brackets

Safety approvals:
CE, UL, FCC, CDRH Class II

Service options:
Installation assistance
On-site training

Warranty:
One-year limited, parts and labor

Accu-Sort reserves the right to change specifications without notice

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

ISO 9001
KEMA CERT 11098.01
The Accu-Sort Quality System is ISO9001 certified.

ROCKWELL AUTOMATION
ENCOMPASS
AMERICAS PARTNER