The MS-860 makes reading bar codes and stacked 2D codes easy. Push-button calibration and a fully programmable feature set enable you to quickly and easily configure the scanner to meet your needs. Raster settings are programmable to read multiple symbols at different locations or at varying distances.

Easy to setup, the MS-860’s push-button setup will save installers of all skill levels valuable time. Pressing the EZ button initiates the calibration process to optimize the MS-860’s settings for each bar code type and setup. This maximizes performance and can be done onsite.

By combining flexible features with ease of use, the MS-860 is adaptable to a wide variety of bar code applications across multiple industries with operators of varying experience levels.

**Calibration**
Out of the box setup is simplified with the 860’s unique calibration feature. Simply place your bar code in front of the scanner and push the EZ button to initiate calibration. Motor speed, gain, tracking, and laser power are all self-calibrated in the MS-860 to optimize settings specifically to your bar code.

**Intelligent Raster**
In addition to sweep angle and speed controls, the MS-860’s programmable raster features intelligent auto framing technology. Advanced software will automatically frame the raster height and width of the laser to match the bar code symbol. This allows the scanner to selectively target specific bar codes in a single read cycle.

**Push-Button Setup**
The EZ button puts power at your fingertips. Three programmable positions can be used to quickly perform complex tasks. EZ button user-selectable functions include:

- Read Rate
- Calibration
- Auto Framing
- Save for Power-on
- Sleep Mode
- Load New Master

**High Scan Speed and Long Read Range**
The MS-860’s high scan speed coupled with long read range and wide sweep angle provide maximum flexibility for addressing applications with multiple symbols, different locations, or a wide range of distances.

**Real-Time Feedback**
Illuminated LEDs on the side of the scanner and a green flash LED projecting from the front window provide visual confirmation of the scanner’s performance. The green flash LED is visible within a complete 360 degree radius from the scanner.

**ESP™ Easy Setup Program**
ESP™ is Microscan’s software to configure, test, and operate Microscan readers. ESP™ includes a fully functional terminal program and is compatible with Windows 98, NT, 2000, and XP.

**Symbologies**
Like all Microscan scanners, the MS-860 reads virtually all widely used symbologies, including:

- PDF417
- RSS/Composite
- MicroPDF417
- Pharmacode
- Code 39
- Code 128
- Code 93
- Codabar
- UPC/EAN 12 of 5
MS-860 EZ INDUSTRIAL BAR CODE SCANNER

Specifications and Options

MECHANICAL
Height: 4.28" (109 mm)
Width: 3.74" (95 mm)
Depth: 1.76" (45 mm)
Weight: 16 oz. (453 g)

ENVIRONMENTAL
Enclosure: IP65
Operating temperature: 0°C to 50°C
(32°F to 122°F)
Storage temperature: -50°C to 75°C
(-58°F to 167°F)
Humidity: Up to 90% (non-condensing)

EMISSIONS
Radiated and Conducted emissions:
C-EMISSIONS

READ RANGES
Narrow-barwidth
Extended Range
(350–500 decodes/sec)
-0.02" (208 mm) 24 to 41" (610 to 1041 mm)
-0.03" (762 mm) 21 to 42" (533 to 1066 mm)
-0.04" (1 mm) 19 to 47" (482 to 1193 mm)

Narrow-barwidth
High Density
(450–500 decodes/sec)
0.005" (227 mm) 1.5 to 2.75" (38 to 70 mm)
0.0075" (190 mm) 1 to 4" (25 to 102 mm)

Narrow-barwidth
Low Density
(450–500 decodes/sec)
0.010" (254 mm) 6.5 to 13.25" (165 to 337 mm)
0.015" (381 mm) 4 to 18" (102 to 457 mm)
0.020" (508 mm) 2.5 to 20" (64 to 508 mm)
0.030" (762 mm) 2 to 24" (50 to 610 mm)
0.040" (1.02 mm) 2 to 28" (50 to 711 mm)

CONNECTORS/ PIN ASSIGNMENTS
Host Connector: 25-pint D-subminiature plug

COMUNICATION
Interface: RS-232, RS-422/485, Daisy chain
and Auxiliary port capable

SYMBOLICS
Standard: Code 128, Code 39, Code 93, Codabar,
RSS (Composite), Interleaved 2 of 5, UPC/EAN,
PDF417, MicroPDF, and Pharmacode

ELECTRICAL
Power Requirement: 10–28 VDC, 200 mV p-p
(max. ripple, 110 mA at 24 VDC (typ.))
Trigger, New Master, Input 1: Optoisolated,
5–28 VDC, 110 mA at 24 VDC (typ.)
Outputs (1, 2, 3): Optoisolated, 1–28 VDC rated,
(12 mA at 24 VDC)

SAFETY CERTIFICATIONS
CDRH, CE, UL/cUL

ISO CERTIFICATION
Issued by RWTUV, USA Inc.
ISO 9001:2000 - Cert No. 03–1212
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Specifications subject to change.
Updates to this specification can be found

Product specifications are given for typical
performance at 25°C (77°F) using grade A labels.
Some performance characteristics may vary at high
and extreme temperatures or other environmental extremes.

Warranty- One year limited warranty on parts and
labor. Extended warranty available.

MICROSCAN.

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www.microscan.com
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