



## MS120 Pen Scanner

The MS120 series bar code wands are targeted toward low reading volume and cost effective solutions. The advanced optics and electronic design convert bar code labels into a high quality digital signal. Able to read color, faded and low contrast barcodes quickly and accurately, the MS120 is a proven solution.

The polished sapphire tip reduces wear on labels and is also easily replaced if damaged. The MS120 is available with three different interfaces. The MS120A is an undecoded model which interfaces via a 9pin squeeze release connector. The MS120-2 has an RS232 interface with a built in decoder. With a keyboard wedge (AT or PS/2) interface the MS120-3 also has a built-in decoder

Its shape gives the MS120 the comfort and handling of a normal ink pen. Just sweep the tip of the wand across the bar code in either direction and listen for the "good read" beep that lets you know the data has been successfully captured. It doesn't get any easier than that.

### Features:

- Rugged, lightweight design.
- Easy to use and configure.
- Low power consumption.
- Wide read angle (0 ~ 45°).
- High scan speed (5 ~ 200 cm/sec).
- Durable, replaceable sapphire tip.
- Keyboard wedge and RS232 interfaces available.


**Ordering Information:**

MS120A	Undecoded, DB9 Squeeze & Release connector
MS120-2	RS232, DB9 connector (may require 5V AC adapter)
MS120-3	Keyboard wedge interface, DIN connectors
MS120-3PS2	Keyboard wedge interface, miniDIN (PS/2) connectors

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SPECIFICATIONS	
<b>OPTICAL:</b>	
Light Source	660nm Red LED
Resolution	5 mils (0.12mm)
Depth of field	0.04" (0.1mm)
Scan Rate	2 - 78.7 inches/sec (5-200 cm/sec)
Reading Angle	0 to 45°
Print Contrast Ratio	0.5 min.
Min Narrow Bar	0.12 mm when PCS=0.9 0.18 mm when PCS=0.5
<b>INTERFACE:</b>	
Connector	Undecoded: Dsub-9 Squeeze & Release Keyboard wedge: 5-pin DIN or miniDIN RS232: DB9
Reading Star Method	Without trigger switch
Bar Code Signal	TTL compatible; Polarity: Black bar = high White space = low
Rise time 10 to 90%	4 μs(R=1K Ω)
Fall Time 90 to 10%	1 μs(R=1K Ω)
<b>ENVIRONMENTAL:</b>	
Operating Temperature	32 to 131°F (0 to 55° C)
Storage Temperature	-4 to 158°F (-20 to 70° C)
Humidity	20% to 85% RH non condensing
<b>MECHANICAL:</b>	
Weight	60 g (cable not included)
Cable	Coiled cable
Case Material	Stainless Steel
<b>DECODER (only applicable to MS120-2/3)</b>	
Symbologies	Code 39 (full ASCII), EAN-13/9 with add-on code, UPC-A/E with add-on code, Code 11, Code 93, Code 128, Codabar, MSI/Plessey, Interleaved 2 of 5, Standard 2 of 5, China Postal Code, Italian Pharmacy, reversed label.
Data editing	Prefix, suffix, code ID and reformatting of output data.
Key emulation	Full ASCII code and IBM PC function keys
Configuration	Bar code setup menu or customized bar code label.
Interface	PC AT & PS/2 keyboard wedge (MS 120-3), RS232 (MS 120-2).