

# MS120 Pen Scanners



## THE MS120 SERIES ARE GOOD-QUALITY

Hand-held barcode scanners.  
Their advanced optics and electronics design.

Which converts a barcode image into a high quality digital signal, allows them to read color, faded and low contrast barcode labels quickly and accurately.

The polished and smooth sapphire tip reduces wear on barcode labels. Moreover, their rugged, yet lightweight stainless steel construction with strain relief, makes them well suited for heavy duty industrial applications.

MS120-2/3 is decoded to support the PC/AT keyboard wedge and RS232. It accepts most commonly used barcode symbologies, scanned data formatting and function keys emulation.

They are the ideal choice for your low cost barcode solutions. The entire series is FCC and CE approved.

## FEATURES

- Rugged, lightweight, and easy to use
- Low power consumption, 37mA average
- Wide read angle, 0° ~ 45° tilt
- High scan speed, 5 ~ 200 cm/second
- Replaceable tip

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## OPTICAL

Light Source	660 nm Red LED
Resolution	0.12 mm (5 mils)
Depth of field	0.1 mm (0.04 inch)
Scan Rate	5 ~ 75 cm/sec
Reading Angle	0° ~ 45°
Print Contrast Ratio	0.5 min.
Min Narrow Bar	0.12 mm when PCS=0.9 0.18 mm when PCS=0.5

## INTERFACE

Connector	Dsub-9S/DIN5P 60° / None
Reading Star Method	Without trigger switch
Bar Code Signal	TTL compatible; Polarity: Black bar=high White space=low
Rise time 10 to 90%	4 $\mu$ s (R=1K $\Omega$ )
Fall Time 90 to 10%	1 $\mu$ s (R=1K $\Omega$ )

## ENVIRONMENTAL

Operating Temperature	0°C to 55°C (32°F to 131°F)
Storage Temperature	-20°C to 70°C (-4°F to 158°F)
Humidity	20% to 85% RH non-condensing
Regulatory	CE, FCC



MS120-06V3