

# Magellan® 1000i

Omni-Directional Imaging Scanner

## Competitive Matrix

MANUFACTURER/ MODEL	PSC MAGELAN 1000i	METROLOGIC MS3580 QUANTUM T	METROLOGIC MS7120 ORBIT	SYMBOL LS9203 & LS9208	SYMBOL MS2000 CYCLONE
					
<b>FEATURES</b>					
<b>MECHANICAL</b>					
<b>Dimensions:</b> Scanner (H x W x L)	3.3 x 2.8 x 3.7 / 8.3 x 7.1 x 9.1 cm	n/s	5.9 x 4.0 x 4.1" / 15.0 x 10.2 x 10.4 cm	5.5 x 3.5 x 3.0" / 14.0 x 8.9 x 7.6	7.8 x 3.4 x 5.4" / 19.8 x 8.6 x 13.7 cm
<b>Dimensions:</b> Scanner w/Stand	5.5 x 2.9 x 3.8" / 14.0 x 7.4 x 9.7 cm	4.3 x 2.7 x 2.6" / 10.9 x 6.9 x 6.6	n/a	7.2 x 4.8 x 3.7" / 18.2 x 12.2 x 9.4	n/a
<b>Weight:</b> Scanner	7.0 oz / 198 g	6.0 oz / 170.1 g	14.5 oz / 411g	10.2 oz / 289.2	12/0 oz / 340.2 g
<b>Weight:</b> Stand	6.6 oz / 187 g	n/a	n/a	11.3 oz / 320.3 g	n/a
<b>ERGONOMICS</b>					
Handability Scale (1-5)	3	3	2	3	5
<b>ELECTRICAL</b>					
Operating Voltage	5.0 V ± 0.25V 7.0-12.0 V ± 0.6V	5.0V	5.0V	5.0V	5.2VDC ±10% e 400mA nominal
Operating Current (idle)	<300mA	n/a	n/a	n/a	n/a
Operating Current (reading a label)	<400mA	275 mA typical	200 A	390 mA	400 mA
Surge Current (<30 ms)	<600mA	n/a	n/a	n/a	n/a
<b>ENVIRONMENTAL</b>					
<b>Temp:</b> Operating	32°-104°F / 0° - 40°C	-4°-104° F / -20°-40°C	32°-104° F / 0°-40°C	32° - 104° F / 0° - 40°C	32° - 104° F / 0° - 40°C
<b>Temp:</b> Storage	-40°-158°F / -40°-70°C	-40°-140° F / -20°-40°C	-40°-158° F / -40°-70°C	-40°-158° F / -40°-70°C	-40°-158° F / -40°-70°C
Humidity	5-95% NC	5-95% NC	5-95% NC	5-95% NC	5-95% NC
Shock	Multiple 1.2 m drops	n/a	Multiple 1.2 m drops	Multiple 1.2 m drops	n/a
Water & Dust	IP50	n/a	Sealed to resist airborne particulate and dust	n/a	n/a
<b>MULTI-INTERFACE</b>					
	Yes	Yes	Yes	Yes	Yes
<b>OPTICAL</b>					
Scan Pattern	100 line	20	20	20 line	Auto
Scan Rate	1,000 digital scan lines/sec	1,650 scan lines/sec	1,200 scan lines/sec	1,500 scan lines/sec	640 x 22 scan lines/sec
Single Line	Yes	Yes	No	Yes	Yes
Single Line Activation	Press & release	Press	No	Press twice	Trigger
Depth of Field (DOF)	0-6"	11"	8.5"	0-9"	8"
Scan Volume	70.0 <sup>3</sup> in / 178.0 <sup>3</sup> cm	~101.0 <sup>3</sup> cm	~100.0 <sup>3</sup> cm	~100.0 <sup>3</sup> cm	~101.0 <sup>3</sup> cm
Minimum Resolution	5 mil	5 mil	5 mil	5 mil	5.5 mil
Print Contrast	25%	35%	25%	25%	25% (1D codes)
Pitch	±65°	±60°	±60°	±50°	n/a
Skew	±75°	±60°	±60°	±50°	±80°
Roll	0 — 360°	0 — 360°	0 — 360°	0 — 0 — 360°	0 — 360°
Ambient Light: Indoor	<6,000 Lux	<4,800 Lux	<4,800 Lux	<4,800 Lux	<2,100 Lux
Ambient Light: Outdoor	<86,100 Lux	n/a	n/a	<86,100 Lux	<86,100 Lux
<b>OTHER</b>					
New Decoding: RSS	Yes	Yes	Yes	Yes	Yes
EAS (Checkpoint®)	Yes	No	Yes	Yes	Yes
Flash ROM	Yes	Yes	No	Yes	Yes
<b>WARRANTY</b>					
	2 Years	3 Years	3 Years	2.5 Years	3 Years

Handability Scale: Never = 1; Rarely 98/2 = 2; Sometimes 90/10 = 3; Common 80/20 = 4; A lot 50/50, Handheld form = 5.

Evaluation Criteria: This evaluation is based on comparisons of laboratory measurements, product data sheets, web site information, press releases and trade show product demos and discussions. PSC is not responsible for specification changes to competitor's products.



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