

EV10

High Performance APS Scan Engine



- Ultra-compact size yet extremely durable
- First bi-linear CMOS sensor using APS technology
- 617nm highly visible aiming
- 200 scans per second
- 3.3 V low power operation preserves battery life
- Provides safe scanning

Combining compact size (5.2cm³/0.32in³) and exceptional scanning performance, the EV10 High Performance APS Scan Engine from Intermec is the first bi-linear CMOS sensor using state-of-the-art Active Pixel Sensor (APS) technology. The EV10 is ideal for OEM applications where space is limited for scanner integration in both portable and fixed devices, including hand held terminals, PDAs, PC and cell phone peripherals, lottery terminals, time and attendance terminals, ski-pass, automated sorting machines and many more.

Intermec's advanced research in scanning technology has resulted in an APS sensor that is bi-linear, utilizing multiple scanning lines and combining high-density, standard range and PDF 417 bar code reading into one engine delivering unparalleled flexibility and performance. The EV10 has a very high scan rate and a large depth of field enabling it to read even the most elusive bar codes including poorly printed, damaged, low contrast, wide or high density. In addition, the EV10 can be used in any lighting conditions from total darkness to full sunlight.

The EV10 uses a unique 617nm illumination system to provide a safe, bright and sharp aiming line. With the EV10, you can clearly see what you are scanning, even in brightly lit or backlit conditions, thus improving usability and throughput.

The EV10 provides easy electrical connection to your OEM hardware without having to add extra components to your main board. The 3.3V low power operation is ideal for preserving battery life in mobile applications. Additionally, the standby current is reduced to micro amps to preserve the host device battery when the scan engine is not in use.

With no moving parts and no laser diode, the EV10 has a longer life than any laser scanner (MTBF above 250Kh). It's rugged design means it can withstand 2000G shocks and 50G vibrations and can be used in a wide temperature range.

Small volume and low power, the EV10 uses an industry standard interface and connector. Everything has been done to simplify the mechanical and electronic integration of the EV10 into your OEM design. The EV10 is the most flexible and durable scan engine on the market. By choosing the EV10, you will protect your investment for future scanning requirements and minimize service repair issues.

Bring innovation into your OEM design by using the power of the EV10 to differentiate your product from your competitors.

Physical Characteristics

Dimensions: 0.45" H x 0.89" D x 0.81" W

11.4mm H x 22.5mm D x 20.6mm W

Weight: 12g

Scanning Performance

Light source: 617nm Highly Visible LED

Scan rate:

High speed mode = 200 scans/s

Low speed mode = 34 scans/s

Scan angle: 40°

Print Contrast: down to 25%

Min x. dimension: 0.1mm (4mils)

Reading distance: up to 50cm

Interfaces

10 pin ZIF connector

Undecoded industry standard output (DBP)

SE900 compatible ribbon cable

Power

Voltage: 3.1 to 3.5V

Current: -110mA typ @ 34 scans/s

-130mA typ @ 200 scans/s

Standby current: 50 µA

Environmental Characteristics

Operating temperature: -22° to 122°F (-30°C to 50°C)

Storage temperature: -40° to 178°F (-40°C to 70°C)

Relative humidity: 5 to 95% (non-condensing)

Shock: 2.000G

Vibration: 5 – 200Hz: 8G 3 axis

Ambient light: works in any lighting condition from 0 to 100000 lux

Regulatory Approvals

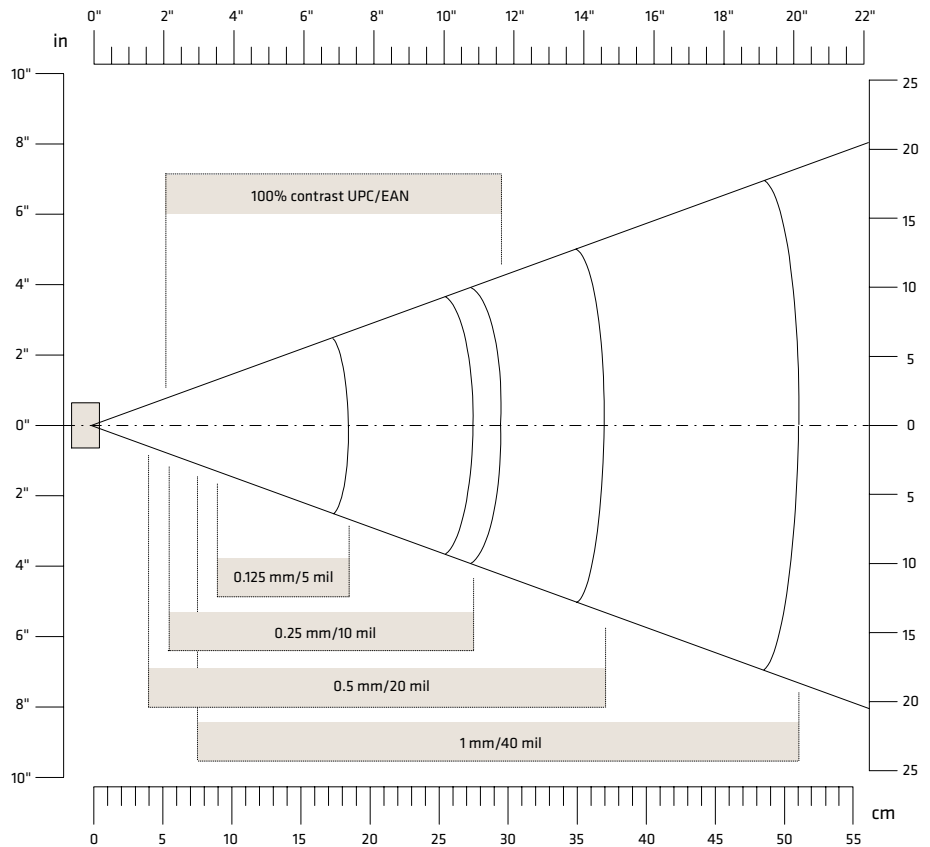
UL, cUL recognized component, VDE certified

Class 1 LED product; SELV according to EN60950-1

Accessories

Demo kit

EV10 Reading Distances



Typical reading distances on high quality symbols

Symbology	Bar Code Content	Density	Minimum Distance	Maximum Distance
Code 39	RESO 0.100 MM	0.1 mm / 4 mil	10 cm / 3.9"	15 cm / 5.9"
	R 0.125 MM	0.125 mm / 5 mil	9 cm / 3.5"	18.5 cm / 7.3"
	0.25	0.25 mm / 10 mil	5.5 cm / 2.2"	27.5 cm / 10.8"
	.5	0.5 mm / 20 mil	4 cm / 1.6"	37 cm / 14.6"
	R1MM	1 mm / 40 mil	7.5 cm / 3"	51 cm / 20.1"
UPC / EAN	120010010100	0.33 mm / 13 mil	5.2 cm / 2"	29.5 cm / 11.6"
PDF417	10 mil	0.254 mm / 10 mil	10 cm / 3.9"	17.5 cm / 6.9"
	15 mil	0.381 mm / 15 mil	8 cm / 3.1"	19.5 cm / 7.7"

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