



EV12

Value Performance APS Scan Engine

- Ultra-compact size yet extremely durable
- Intermec linear CMOS sensor using APS technology
- 617nm highly visible aiming
- Up to 500 scans per second
- 3.3 V low power operation preserves battery life
- Provides safe scanning

Combining compact size (5.2cm³/0.32in³) and great scanning performance, the EV12 is the value version of the Intermec best-selling EV15 engine. The EV12 is based on the Intermec linear CMOS sensor using state-of-the-art Active Pixel Sensor (APS) technology. The EV12 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 more.

Unique Reading Performance

The EV12 benefits from the latest generation of Intermec standard algorithms delivering great performance. The EV12 has a scan rate and a depth of field enabling it to read poorly printed, damaged, low contrast, wide or high density bar codes.

Bright and Sharp

The EV12 uses a unique 617nm illumination system to provide a safe and sharp aiming line. With the EV12, you can

clearly see what you are scanning, even in brightly lit or backlit conditions, thus improving usability and throughput.

Low Power

The EV12 provides easy electrical connection. 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.

Outstanding Reliability

With no moving parts and no laser diode, the EV12 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.

Protect Your Investment

Ultra compact, reliable and easy to integrate, the EV12 is field upgradable (flash memory) as a provision for future requirements.

Give the power of Intermec APS technology to your design; choose the EV12 to differentiate from your competitors.

Design

Processor: New generation custom chip (ASIC)
Sensor: APS CMOS linear image sensor
Light Source: 617 nm bright and sharp scanning line

Scanning Performance

Light source: 617nm Highly Visible LED
Scan Rate: decoded operation = 500 scans/s
 autoadaptive undecoded operation = 200 scans/s
Scan angle: 38°
Print Contrast: down to 25%
Min x. dimension: 0.15 mm (6 mils)
Reading distance: up to 40cm (16 in)

Physical Characteristics

Dimensions: 11.4mm H x 22.5mm D x 20.6mm W
 (0.45" H x 0.89" D x 0.81" W)
Weight: 12g

Symbologies

UPC (EGA), EAN, RSS, Code 39, Code 128, UCC/EAN 128, ISBN, ISBT, Interleaved, Matrix, Industrial and Standard 2 of 5, Codabar, Code 93/93i, Code 11, MSI, Plessey, Telepen.

Interfaces

Decoded mode: RS232 TTL with Intermec Scanner Control Protocol (ISCP)
Undecoded mode: industry standard DBP output

Connection

12 pin ZIF connector, pitch 0.5 mm (0.2 in)

Electrical Characteristics

Voltage: 3.1 to 3.6V
Current: <80 mA typ @3.3V
Standby current: <1uA

Environmental Characteristics

Operating temperature: -30° to 50°C (-22° to 122°F)
Storage temperature: -40° to 70°C (-40° to 158°F)
Relative humidity: 5% to 95% (non-condensing)
Shock: 2000G, 0.7ms, half sinus, 3 axes
Vibration: 50G r.m.s.
Ambient light: works in any lighting conditions, from 0 to 100 000 lux

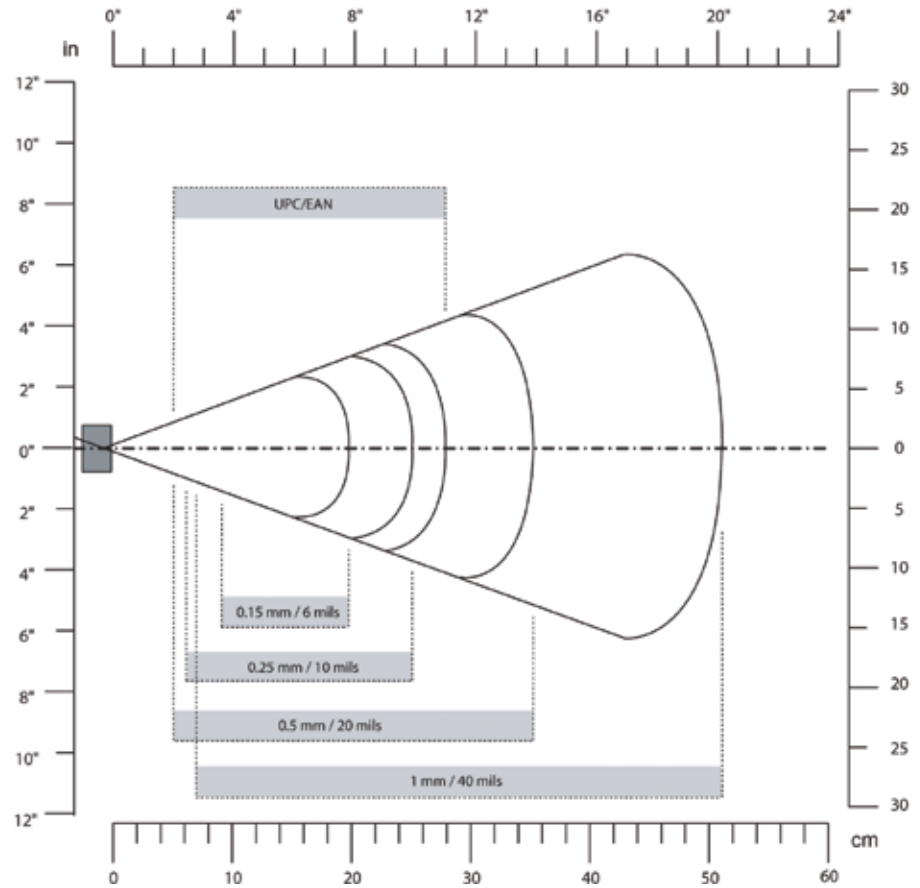
Regulatory Approvals

UL recognized component, VDE certified, RoHS compliant

Accessories

Demonstration kit

EV12 Typical Reading Distances



Symbology	Density	Minimum Distance	Maximum Distance
Code 39	0.15 mm / 6 mils	9 cm / 3.5"	20 cm / 7.9"
	0.25 mm / 10 mils	6 cm / 2.4"	25 cm / 9.8"
	0.5 mm / 20 mils	5 cm / 2"	35 cm / 13.8"
	1 mm / 40 mils	7* cm / 2.8"	51 cm / 20.1"
UPC/EAN	0.33 mm / 13 mils	5 cm / 2"	28 cm / 11"

*Minimum distance depends on bar code width and scan angle.

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