Combining compact size (5.2cm³/0.32in³) and exceptional scanning performance, the EV15 is the decoded version of the Intermec best-selling EV10 engine. The EV15 is based on the Intermec patented bi-linear CMOS sensor using state-of-the-art Active Pixel Sensor (APS) technology. The EV15 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, tape libraries and more.

**Unique Reading Performance**
The EV15 benefits from the latest generation of Intermec patented Vista™ algorithms delivering unparalleled performance. The EV15 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.

**Bright and Sharp**
The EV15 uses a unique 617nm illumination system to provide a safe, bright and sharp aiming line. With the EV15, you can clearly see what you are scanning, even in brightly lit or backlit conditions, thus improving usability and throughput.

**Low Power**
The EV15 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 EV15 has a longer life than any laser scanner (MTBF above 250K). 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 EV15 is field upgradable (flash memory) as a provision for future requirements.

Give the power of Intermec APS technology to your design, choose the EV15 to differentiate from your competitors.
Design
Processor: New generation custom chip (ASIC) with Vista decoding
Sensor: APS CMOS bi-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: 40°
Print Contrast: down to 25%
Min x. dimension: 0.1 mm (4 mils)
Reading distance: up to 90cm (35 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

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: 110 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: 200G, 0.7ms, half sinus, 3 axes
Vibration: 5G r.m.s.
Ambient light: works in any lighting conditions, from 0 to 100 000 lux

Regulatory Approvals
UL recognized component, VDE certified

Accessories
Demonstration kit

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**EV15 Reading Distances**

Typical reading distances on high quality barcodes

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

Typical reading distances on high quality symbols

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