

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

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-theart 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 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 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

UPC (E6A), 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, PDF417, Macro PDF417.

Interfaces

Decoded mode: RS232 TTL with Intermec Scanner

Undecoded mode: industry standard DBP output

Control Protocol (ISCP)

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: 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

Accessories

North America

Demonstration kit

Corporate Headquarters

6001 36th Avenue West

Phone: (425) 348-2600

South America & Mexico Headquarters Office

Newport Beach, California

Phone: (949) 955-0785

Fax: (949) 756-8782

Fax: (425) 355-9551

Everett, Washington 98203

Europe/Middle East & Africa Headquarters Office

Reading, United Kingdom Phone: +44 118 923 0800 Fax: +44 118 923 0801

Asia Pacific

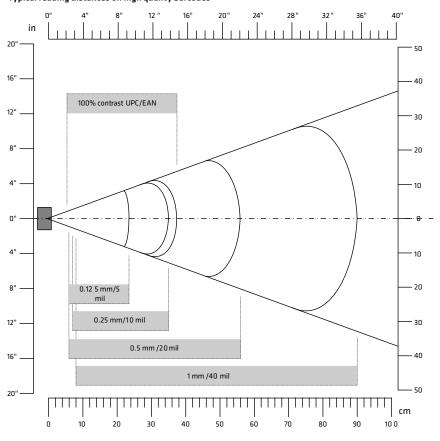
Headquarters Office Singapore Phone: +65 6303 2100 Fax: +65 6303 2199

Internet

www.intermec.com Worldwide Locations: www.intermec.com/locations

EV15 Reading Distances

Typical reading distances on high quality barcodes



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 m / 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"

Sales

Toll Free NA: (800) 934-3163
Toll in NA: (425) 348-2726
Freephone ROW: 00 800 4488 8844
Toll ROW: +44 134 435 0296

OEM Sales

Phone: (425) 348-2762

Media Sales

Phone: (513) 874-5882

Customer Service and Support

Toll Free NA: (800) 755-5505 Toll in NA: (425) 356-1799



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