**Intermec**

## Product
### Profile

**VISTA POWERED™**

- **Exceptional reading performance (up to 50cm/19.6")**

- **Unbeatable for long, damaged, poorly printed, very high density barcodes**

- **Industry-standard form factor**

- **Easy to integrate**

- **Long lifetime, very reliable**

- **Advanced CCD technology for safe scanning**

- **Extremely competitive price**

The E1022 scan engine is the ultimate choice for your OEM design: it will meet your highest requirements for an extremely competitive price.

This module concentrates the exceptional performance of the best-selling ScanPlus 1800 Vista™ into a very compact, industry-standard form factor:

**- Unique reading performance**
The E1022 can read barcodes up to a distance of 50 cm (19.6") with an auto-adaptive scan rate of up to 270 scan/s. It can read any type of code: poorly printed, damaged, wide (up to 18 cm/7"), high density (down to 0.05 mm/2 mil on Code 39, unique in the market place). It can be used in any lighting conditions from total darkness to full sunlight (100,000 lux).

**- Outstanding reliability**
With no moving parts and no laser diode, the E1022 has a longer life than any laser scanner. Its rugged design means it can withstand 2000G shocks and 50G vibrations and can be used in a wide temperature range.

**- Safe to use**
Laser scanners can be harmful if the user looks accidentally into the beam. The E1022 lighting is produced by LEDs that are absolutely safe for the user.

**- Easy to integrate**
Integrating an OEM module has never been so easy.

**Designing a new product?**
The E1022 is easy to control. It features embedded power management, bi-directional serial link for dynamic configuration and a flash memory for firmware upgrade.

**Want to boost your existing design?**
No need to waste time and money to design a new board: the E1022 has an industry-standard form factor and is available in both decoded and undecoded versions with a large choice of connectors to fit your existing board.

Give Vista power to your device, choose the E1022 scan engine for unequalled performance!

## General

The E1022 Vista is a high performance and compact CCD scan engine for OEM devices.

## Design

**Processor:** Custom chip (ASIC inc. DSP processor) for fast signal processing and decoding. Flash memory
**Sensor:** CCD linear image sensor
**Optics:** 645 nm visible LED
Bright and sharp scanning line

## Scanning Performance

**Scan rate:**
    **Undecoded mode:** 36 scan/s
    **Decoded mode:** 270 scans/s auto-adaptive.
**Min. x dimension:** down to 0.05 mM (2mil) on Code 39
**Depth of field:** 0 to 49.2 cm (19.4")
**Barcode width:** up to 18 cm (7") on 0.3 mm (12 mil) resolution code
**Print contrast:** down to 20%
**Scan angle:** 48° nominal

## Physical Characteristics

**Height:** 16.3 mm (0.64")
**Width:** 38.2 mm. (1.5")
**Depth:** 25 mm. (0.98")
**Weight:** 17 g (0.6 oz.)

## Symbologies

UPC (E&A), EAN, Code 11, Code 39, Code 128, UCC EAN 128, ISBN, ISBT, Interleaved, Matrix, Industrial and Standard 2 of 5, Codabar, Code 93, MSI, Plessey, Telepen.

## Interfaces

**Undecoded mode:** industry standard output (DBP)
**Decoded mode:** RS232 TTL

## Connection

**Connector:** 12 pin ZIF
**Flexwire:**
    **Undecoded mode:** 12 to 8 pin ZIF (SE1200 compatible)
    **Decoded mode:** 12 to 12 pin ZIF

## Configuration (decoded interface only)

Setup options include EasySet PC Windows™ software and dynamic RS232 configuration.

## Characteristics

**Voltage:** 5V +/- 5%
**Current:**
    **Undecoded mode:** 122 mA typical
    **Decoded mode:** 130 mA typical
    **Standby current:** 1uA

## Environmental Characteristics

**Operating temperature:** -30 to 60˚C (-22 to 140˚F)
**Storage temperature:** -40 to 60˚C (-40 to 140˚F)
**Relative humidity:** 5% to 95% (non-condensing)
**Shock:** 2000G
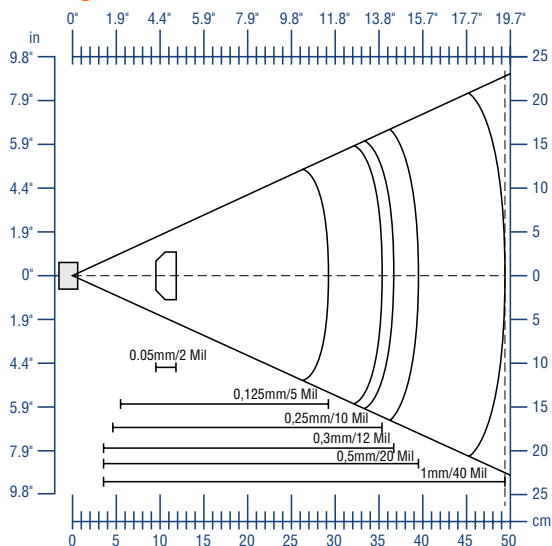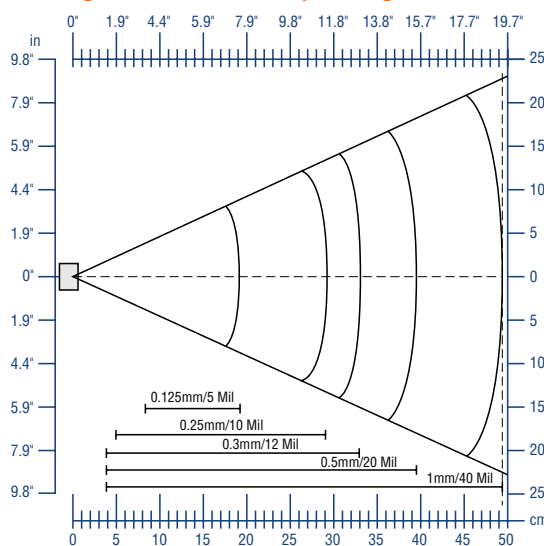**Vibration:** 50G r.m.s.
**Ambient light:** works in any lighting conditions, from 0 to 100 000 lux

## Regulatory Approvals

UL recognized component, VDE certified

## Accessories

Demo board kit compatible with Intermec standard RS232 cable.

### Reading Distance on Code 39*



*Advanced Intermec decoding technology

### Reading Distance on other Symbologies