EA30

High Performance
2D Imager

The Intermec EA30 is the new generation in 2D imaging, offering best in class motion tolerance and time to read providing a distinct performance advantage to the products in which it is integrated.

- Delivers a performance advantage as the only 2D imager to provide 50 times more motion tolerance than standard imagers

- Future-proofed imager captures images, signatures and reads 1D, 2D, composite and stacked codes

- Highly visible aimer makes intensive barcode scanning and image capture easy and comfortable

- Rugged design withstands extreme temperatures, vibrations and shock for extended use in tough environments

- Compact dimensions fit the tightest mechanical constraints

- Supports Intermec Scanner Communication Protocol (ISCP) & USB interface

Differentiation and Unparalleled Performance

The Intermec EA30 is the first and only 2D imager to provide 50 times more motion tolerance than standard 2D imagers and doesn't require barcode alignment to achieve high read rates, adding a clear performance advantage to your product.

EA30 is particularly adapted for applications where barcodes are read on the move such as picking, sorting, tracking, manufacturing, access control and retail POS. Successful barcode scanning, even under the most dynamic conditions, is made easier because the EA30 can read barcodes at up to 500 ips (12.7 m/s). The rugged EA30 also complies with the most stringent standards for shock and vibration and can successfully operate within a wide temperature range.

Highly Visible & Ergonomic Aiming System

Designed to deliver consistent performance and ease of use in the most challenging environments, the EA30 is equipped with a red continuous scanning line and highly visible pointer to facilitate successful scans in total darkness and in full sunlight. Its corner framers make image capture and multi-code reading intuitive and comfortable. Transitioning to the EA30 will be easy for your customers who are used to lasers or linear imager aimers.

Extending Your Application Reach

The EA30 can read multiple codes in one scan and can also be used in auto-triggering mode. The ability to support 1D, stacked, composite and 2D matrix codes, provides assurance your investment is protected long-term while providing immediate support for current industry standards.

Confidence Now, Protection for the Future

Compact size, standard interfaces, common development tools and software simplify integration of the EA30 into space-constrained devices. Compatibility with the Intermec ED40 High Performance decode board, the smallest USB board available, ensures that you will save room within your design and maximize the performance of the EA30 to its fullest.

The EA30 shares the same Intermec Scanner Communication Protocol with other Intermec engines, supporting enhanced and integrated design efforts across multiple product platforms.

Intermec

Design
Technology: 2D imager
Light Source: Highly visible white LED.
High efficiency 100 lm/W
Aimer: 650 nm laser, Class 2

Physical Characteristics
Dimensions: 21.95 mm W x 15.3 mm D x 13 mm H
(0.86 in W x .0.60 in D x .51 in H)
Weight: <10 g (.35 oz)

Scanning Performance
Scan Rate: up to 60 fps / 120fps in 1D mode
Scan Angle: 34.4° (Horizontal), 22.2° (Vertical)
Optical resolution: 752 (H) x 480 (V) pixels, 256 gray levels
Min x. dimension:
1D codes 0.1 mm (4 mils)
2D codes 0.167 mm (6.6 mils)
Print contrast: Down to 30%
Motion Tolerance: Up to 500ips or 12.7m/s

Symbologies
1D symbologies: EAN/UPC, GS1 Databar (limited expanded & omni-directional), 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, postal codes (Australian Post, BPO, Canada Post, Dutch Post, Japan Post, PostNet, Sweden Post)
2D symbologies: Data Matrix, PDF417, Micro PDF 417, Codablock, Maxicode, QR, Aztec, GS1 composite codes, Direct Part Marking Reading multicodes and barcodes on mobile phone screens available.

Interfaces
Connector: 25 pin ZIF, pitch 0.3 mm (0.12 in)
Decode and image transfer: USB interface (see ED40 Decode Board)
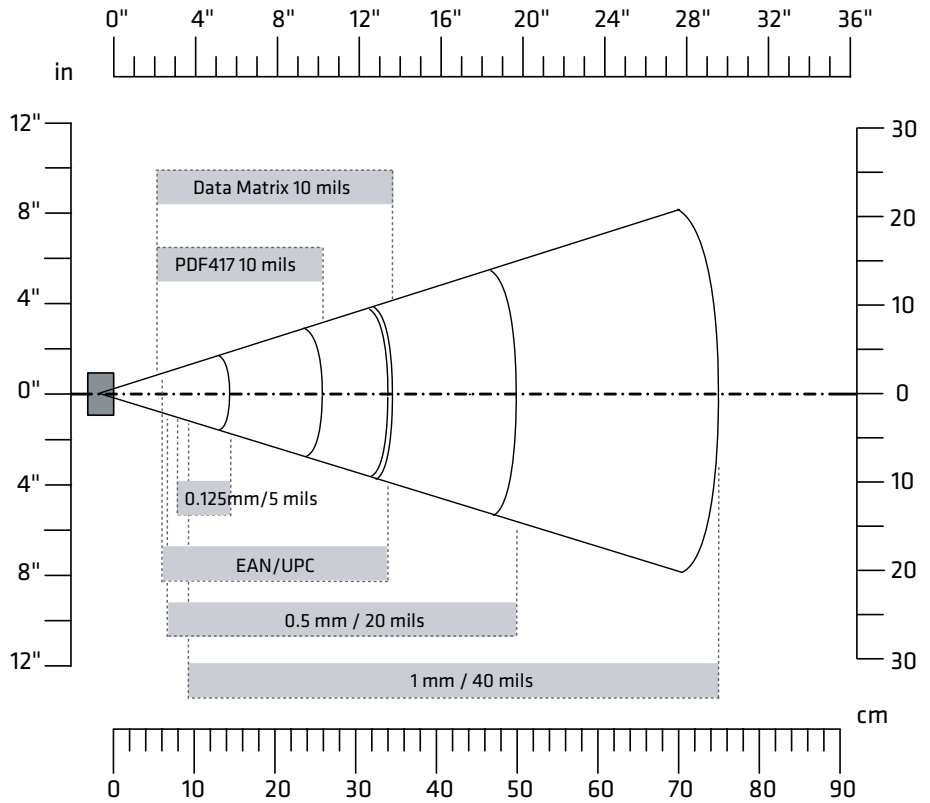Intermec Scanner Control Protocol (ISCP)

Electrical Characteristics
Voltage: 3.3V- 5%/+10%
Operating Current: 300mA @ 3.3V typical
Standby current: <2mA

Typical Reading Distances

Data Matrix 10 mils
PDF417 10 mils
0.125mm/5 mils
EAN/UPC
0.5 mm / 20 mils
1 mm / 40 mils

Environmental Characteristics
Ambient light: Works in any lighting conditions, from 0 to 100 000 lux
Operating temperature: -20° to 50° C (-4° to 122° F)
Storage temperature: -40° to 70° C (-40° to 158° F)
Relative humidity: 95% at 60° C (140° F) (non-condensing), 4 days
Shock: 2000G, 0.7ms, half sinus, 6 directions
Vibration: 8G r.m.s., from 10Hz to 500Hz, 2 hours/axis, 3 axes

Regulatory Approvals
UL, cUL, VDE
Class 2 Laser/LED
RoHS
See integration guide for more details

LASER RADIATION
DO NOT STARE IN TO BEAM
CLASS 2 LASER/LED PRODUCT

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