

- The first compact extended range 2D Imager - Ideal for mobile applications requiring longer reading ranges
- Best in class scan rate (60 frames/s) Designed for intensive scanning and productivity
- Reads 1D and 2D symbologies omnidirectionally - Complies with new industry standards & future proofed
- Highly visible laser aimer Enhanced comfort in use, from total darkness to bright sunshine environments
- Plug compatible with Intermec EA15
 2D Imager Leverages your design efforts & provides interchangeability
- Highly durable design Built to withstand harsh environments

The Intermec EA20X is the first 2D barcode scan engine on the market that combines the future proofing of 2D imaging with the extended reading range of a 1D laser scan engine (up to 80cm/31.5in on a 0.5mm/20mil 1D barcode). It is the ideal 2D scan engine for mobile solutions, particularly for in-premise applications (picking & putaway, inventory management, shipping & receiving, cross-docking applications).

Powered by Intermec patented decoding and leading edge hardware, EA20X is designed for intensive scanning usage and reaches 200 scans (1D mode) and 60 scan/s in (2D mode): Productivity is ensured. The EA20X scans 1D, 2D, composite and postal codes; it also captures images and successfully copes with high resolution, damaged, poorly printed or overlayed codes.

Industry standards are driving a fast adoption of 2D symbologies across multiple industries: choosing the EA2OX 2D scan engine ensures long term investment protection as it reads any standard 1D and 2D barcode. However, in many applications the range of a standard 2D imager is too limited. The EA2OX solves this issue by providing the advantages of a 2D scanner without compromising on the range.

Intermec chooses a highly visible laser aimer to ensure that the user can easily target the barcode to read, even at long

distances. Equipped with both a laser pointer and a four corner framer, as well as flood illumination, EA20X improves scanning productivity and accuracy. It reads barcodes omni-directionally at longer ranges, lighting conditions and angles.

The EA20X joins the Intermec 2D family of engines and is plug compatible with the popular EA15 engine. Developers can leverage their design efforts as well as their market breadth with the highly popular interchangeability of these engines. Everything has been done to simplify the integration of the EA20X engine: compact size, low power 3.3 V operation, and industry standard interface. The EA20X shares the same Intermec Scanner Control Protocol as the other Intermec engines allowing end users to leverage their integration and design efforts across multiple OEM product platforms, reducing time to market and promoting easier product migration.

The EA20X is built to work in the most hostile environments. It operates from total darkness to full sunshine over a large temperature range and complies with the most stringent standards for shock and vibration. Its compact size and highly durable design make it ideal for integration into space constrained OEM devices with omni-directional near and far range requirements.



Physical Characteristics

Scan engine: 20.9 mm W x 16.5 mm D x 12.4 mm H (.8 in W x .66 in D x .5 in H)

Decode board: 38.1 mm W x 25.4 mm D x 6.6 mm H (1.50 in W x 1 in D x .26 in H)

Weight

Scan engine: 15g (0.52 oz.) **Decode board:** 6g (0.21oz.)

Scanning Performance

Light Source: 617nm Highly Visible LED, 650nm Laser Framing/Aiming.

Scan Rate: 2D mode: 60 images/s auto adaptive Linear emulation mode: 200 scans/s auto adaptive Scan angle: 26.0° (Horizontal), 16.8° (Vertical) Framing Angles: 25.0° (Horizontal), 16.0° (Vertical) Optical resolution: 752 (H) x 480 (V) pixels,

256 gray levels

Print Contrast: down to 30% on 1D, 35% on 2D Min. Resolution: 1D symbologies 0.15 mm (6 mil), Stacked (PDF417) 0.17 (6.6 mil) and 2D matrix 0.18 (7mil)

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

Interfaces

High speed RS232 TTL with Intermec Scanner Control Protocol (ISCP), SPI

Connection

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

Electrical Characteristics

Voltage: 3.3V+/- 5%

Current: 410mA @ 3.3V scanning with power save

Power saving mode: 7mA

Environmental Characteristics

Ambient light: from 0 to 100 000 lux

Operating temperature: -20° to 50° C (-4° to 122° F) Storage temperature: -30° to 70° C (-22° to 158° F)

Relative humidity: 95% Rh @ 60°C (140°F) Non-condensing, 4 days.

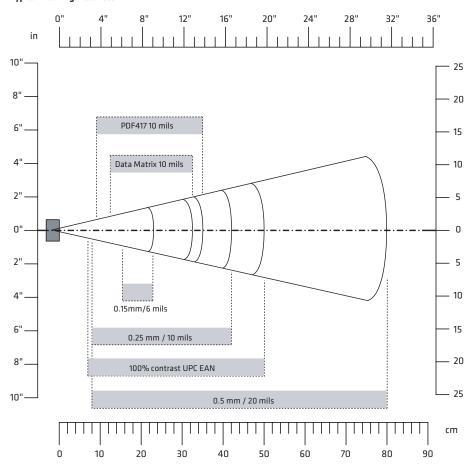
Shock: 2000G, 0.7ms, half sinus, 6 directions, **Vibration:** 8G r.m.s., from 10Hz to 500Hz,

2 hours/axis, 3 axes

Regulatory Approvals

UL, cUL, VDE certified, RoHS compliant, Class 2 Laser

Typical Reading Distances



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