DE2011-DL 2D IMAGER ENGINE

⬥DATALOGIC

THE MINIATURE 2D IMAGER ENGINE

The DE2011-DL is an ultra-compact high performance 2D imager engine. It features an exceptional high-speed sensor which enables image capture at a full 60 frames per second, delivering outstanding motion tolerance. The steady white illumination is pleasant to the user's eyes.

The small size of this engine makes it ideal for OEM use in size constrained environments.

The DE2011-DL OEM engine features outstanding Depth of Field (DOF) reading, a nominal field of view, high motion tolerance, snappy reading and excellent performance on decoding poorly printed bar codes or bar codes displayed on mobile devices and computer screens.

Datalogic's 'Green Spot' technology for good-read feedback is an optional feature that provides customers with visual confirmation of a good read.

EASY INTEGRATION

Customers can directly connect the scan engine into their device main board by using the industry standard camera port on a 21-pin ZIF connector.

With the use of the Datalogic Software Decoder for Engines (DSDE), customers can integrate the DE2011-DL OEM engine into their device working with the power of Datalogic decoding algorithms. The DSDE is available for Windows, WinCE, Linux and Android operating systems. Customers have full control of the operation and function of the scan engine working within their application.

The software integration approach not only results in a lower cost solution, but also offers more flexibility and makes it is easier to maintain the application.

FEATURES

- Compact size is able to fit into space constrained application environments
- Highly visible center cross with four corner dots aiming system
- Steady white illumination
- Snappy reading performance with high motion tolerance
- Excellent reading of 1D or 2D codes on print or displayed on mobile device or computer screens
- Low power consumption enables longer battery life
- Datalogic's Software Decoder for Engines (DSDE) includes:
  - Datalogic Decoding Library for Engines (DDLE) with Decoding Algorithms and Engine Control functions
  - API documentation and includes files for DDLE
  - Source code of Reference Drivers for I2C and Camera Interface
  - Source code of Demo Application program
- Datalogic's 'Green Spot' technology for visual good-read feedback (optional)
- Sold in packages of 10

INDUSTRY - APPLICATIONS

- OEM Applications
  - Self-Service Kiosks
  - Medical Devices
  - Lottery Terminals
  - All-in-One POS Terminals
  - Access Control Devices
  - Small Wireless Scanning Devices
  - Handheld Terminals and PDAs

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TECHNICAL SPECIFICATIONS

DECODING CAPABILITY

1D / LINEAR CODES	Autodiscriminates all standard 1D codes including GS1 DataBar™ linear codes.
2D CODES	Aztec Code; China Han Xin Code; Data Matrix; MaxiCode; Micro QR Code; QR Code
POSTAL CODES	Australian Post; British Post; China Post; IMB; Japanese Post; KIX Post; Korea Post; Planet Code; Postnet; Royal Mail Code (RM4SCC)
STACKED CODES	EAN/JAN Composites; GS1 DataBar Composites; GS1 DataBar Expanded Stacked; GS1 DataBar Stacked; GS1 DataBar Stacked Omnidirectional; MacroPDF; MicroPDF417; PDF417; UPC A/E Composites

ELECTRICAL

CURRENT	Operating (Typical): <200mA Standby/Idle (Typical): 21mA Low Power: 0.2mA
INPUT VOLTAGE	3.3 +/- 0.3 VDC at 23 °C

ENVIRONMENTAL

AMBIENT LIGHT	0 - 100,000 lux
HUMIDITY (NON-CONDENSING)	5 - 95%
SHOCK	2500 G at 23 °C at 0.85 m sec.
TEMPERATURE	Operating: -30 to 55 °C / -22 to 131 °F Storage/Transport: -40 to 70 °C / -40 to 158 °F

INTERFACES

INTERFACES	Camera port on a 21-pin ZIF Connector

PHYSICAL CHARACTERISTICS

DIMENSIONS	11.4 H x 21.0 W x 15.75 D mm / 0.45 H x 0.83 W x 0.62 D in
WEIGHT	9.0 g / 0.32 oz

READING PERFORMANCE

IMAGER SENSOR	WVGA: 752 x 480 pixels
LIGHT SOURCE	Aiming: 650 nm VLD Illumination: Steady White LEDs
PRINT CONTRAST RATIO (MINIMUM)	25%
FIELD OF VIEW	40° H x 26° V
READING ANGLE	Pitch: +/- 60°; Roll (Tilt): +/-180°; Skew (Yaw): +/- 60°
READING INDICATORS	Datalogic 'Green Spot' Technology for visual good-read confirmation (Optional)
RESOLUTION (MAXIMUM)	1D Linear: 0.0762 mm / 3 mils; DataMatrix: 0.195 mm / 7.5 mils; PDF417: 0.127 mm / 5 mils

READING RANGES

TYPICAL DEPTH OF FIELD	Minimum distance determined by symbol length and scan angle. Printing resolution, contrast, and ambient light dependent.
1D / 2D CODES	3 mils Code 39: 8.0 to 17.5 cm / 3.1 to 6.9 in 5 mils Code 39: 5.5 to 26.0 cm / 2.1 to 10.2 in 13 mils EAN-13: 4.5 to 42.0 cm / 1.8 to 16.5 in 20 mils Code 39: up to 59.0 cm / up to 23.2 in 15 mils DataMatrix: 3.5 to 26.5 cm / 1.4 to 10.4 in 10 mils PDF417: up to 20.0 cm / up to 7.9 in

SAFETY & REGULATORY

ENVIRONMENTAL COMPLIANCE	Complies to China RoHS; Complies to EU RoHS
LASER CLASSIFICATION	Caution Laser Radiation - Do not stare into beam IEC 60825 Class 2

SOFTWARE INTEGRATION

OPERATING SYSTEM SUPPORT	WinCE; Android; Windows; Linux
TOOLS	Datalogic Software Decoder for Engines (DSDE)

WARRANTY

WARRANTY	18-Month Factory Warranty

DIMENSIONS OF SCAN ENGINE (MEASUREMENTS IN MILLIMETERS)

GREEN SPOT

4-DOT AIMER

www.datalogic.com