

DSE04X1 2D DECODED SCAN MODULE



THE MINIATURE 2D DECODED SCAN MODULE

The DSE04X1 are the decoded versions of the DE2011-DL ultra-compact high performance 2D imager engine. It is comprised of the DE2011-DL and a decoder board. The scan engines feature an exceptional high-speed sensor which enables image capture at a full 60 frames per second, delivering outstanding motion tolerance.

The scan engines feature an outstanding depth-of-field, a large field-of-view, high motion tolerance, snappy reading, and excellent decoding performance on poorly printed codes or bar codes displayed on mobile devices and computer screens.

Customers can also choose to add a beeper and/or Datalogic's patented 'Green Spot' technology for good-read feedback. This is particularly useful in noisy environments.

EASY INTEGRATION

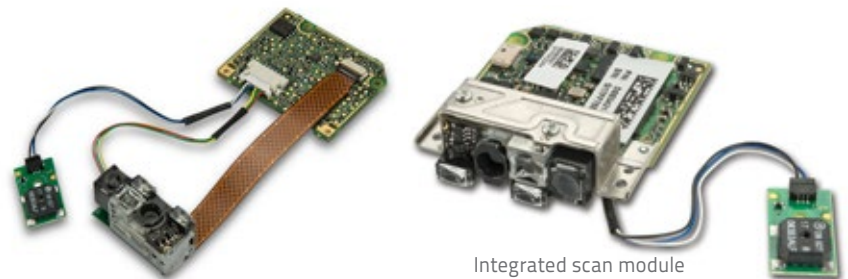
The DSE04X1 scan modules include Datalogic's high-performance decoder which can decode all common 1D and 2D bar codes.

Customers can choose an integrated scan module or install the scan engine and decoder board separately, connected by a short flex cable up to 7.0 cm / 2.7 in. This provides mounting flexibility for constrained spaces.

The scan module supports USB interfaces (USB keyboard, USB HID and USB com) or UART interfaces (RS-232, TTL-232).

Customers who need to connect to a host terminal port can choose either a model with the microUSB connector board (DSE0421-K) or the RS-232/RJ connector board (DSE0451-S).

With Datalogic remote management software, customers can manage the firmware of the scan module remotely.



Remote installation

Integrated scan module

DSE0421-R / DSE0451-R

DSE0421 / DSE0451



CONNECTOR BOARDS



FEATURES

- Compact size is able to fit into space constrained applications
- Customers can choose between models that come with either the microUSB connector board or the RS-232/RJ connector board in order to connect to the host port
- 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 in printed format or displayed on mobile devices and monitors
- Low power consumption enables longer battery life
- Supports either a USB connection (DSE0421) or a UART/RS connection (DSE0451)
- Datalogic's 'Green Spot' technology for visual good-read feedback (optional)
- DSE0420-DEMO Kit is available and features a trigger and interface board

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): <150mA Standby/Idle (Typical): 12mA
INPUT VOLTAGE	4.5 - 5.5 VDC +/- 5% at 23 °C / 74 °F

ENVIRONMENTAL

AMBIENT LIGHT	0 - 100,000 lux
HUMIDITY (NON-CONDENSING)	5 - 95%
SHOCK	2500 G at 23 °C / 74 °F at 0.85 m / 2.7 ft per second
TEMPERATURE	Operating: -20 to 55 °C / -4 to 131 °F Storage/Transport: -40 to 70 °C / -40 to 158 °F

INTERFACES

INTERFACES	DSE0421/DSE0421-R: USB 8-pin zif cable DSE0421-K/DSE0421-R-K: microUSB connector DSE0451/DSE0451-R: UART 8-pin zif cable DSE0451-S/DSE0451-R-S: RS-232/RJ connector
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PHYSICAL CHARACTERISTICS

DIMENSIONS	13.65 H x 40.1 W x 47.86 D mm / 0.54 H x 1.58 W x 1.88 D in (Measured as one scan module)
WEIGHT	20.0 g / 0.7 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: 3 mils; DataMatrix: 7.5 mils; PDF417: 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: up to 10.5 cm / up to 4.1 in 5 mils Code 39: 6.5 to 21.0 cm / 2.6 to 8.3 in 13 mils EAN-13: 5.5 to 39.0 cm / 2.2 to 15.4 in 20 mils Code 39: up to 50.0 cm / up to 19.7 in 15 mils DataMatrix: 4.0 to 25.0 cm / 1.6 to 9.8 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

UTILITIES

DATALOGIC ALADDIN™	Datalogic Aladdin configuration program is available for download at no charge.
OPOS / JAVAPOS	JavaPOS Utilities are available for download at no charge. OPOS Utilities are available for download at no charge.
REMOTE HOST DOWNLOAD	Lowers service costs and improves operations.

WARRANTY

WARRANTY	18-Month Factory Warranty
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DIMENSIONS OF DECODED SCAN MODULE (MEASUREMENTS IN MILLIMETERS)

