

DATALOGIC MATRIX 300N IMAGER

**OBSOLETE - Please contact vision@oem.co.uk

for possible replacements**

MATRIX300N712015 **OBSOLETE - Please contact vision@oem.co.uk for more information**

- 1.3 MP and 2 MP resolutions
- Detects 1D and 2D code types
- Upto 60 fps
- Integrated communication via Ethernet 10/100: Ethernet IP, TCP/IP, UDP, FTP, MODBUS TCP, RS232/RS422/RS485 On-board PROFINET-IO as standard



PRODUCT DESCRIPTION

The MATRIX300N has been made obsolete and superseded by MATRIX320N 2MP OR MATRIX220 X 1.2MP. Please contact vision@oem.co.uk for direct replacements.

Matrix 300N[™] is the next-generation, compact imager in the Matrix family. This high resolution sensor has ultra-fast image acquisition, at 1.3 megapixel and a frame rate of 60 frames per second. The Matrix 300N[™] is ultra-compact, purpose built for superior performance on high speed and Direct Part Marking (DPM) applications.

For the eletronic focus control the optical system incorporates a liquid lens module, as a result the reader offers automatic focus adjustment without the addition of moving parts.

The innovative design of integrated illuminators emmbedded over the entire front surface allows for bright, uniform illumonation. Suitable for illumination on normal, etched, reflective or textured surfaces due to the lighting design using both bright and dark field patterns.

The small dimensions of the Matrix 300N[™] and rotating connector makes it ideal for integrating into small, tight spaces, as well as the M12, 4 pole connections making for easy integration into existing systems.

Additionally the compact flexible design offers cost effective communication options with Power over Ethernet (POE) connection through standard ethernet connection. other connectivity options include PROFINETIO and ETHERNET/IP, eliminating external communication boxes or converters.

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TECHNICAL DATA

| 2D Code Additional features Polarized model Additional features Polarized model Colour LED Red Digital inputs 2 Digital outputs 3 Dimension (mm) 95 x 54 x 45 Distance max 00 mm Distance max 45 fps Integrated communication interface Res232/RS422FD Potass Post, IP67 Mumber of LEDs Post, IP67 Postal Code Types Poster Code, Poster, Royal Mail Code (RM4SCC), Japan Postal Postal Code Types Poster Codes, Poster, Royal Mail Code (RM4SCC), Japan Postal Postal Code Types Poster Codes, Poster, Royal Mail Code (RM4SCC), Japan Postal Postal Code Types Dic CODE, Host Mode programming, X-PRESS Human Machine Interface Resolution LCODE, Host Mode programming, X-PRESS Human Machine Interface Resolution LCODE, Host Mode programming, X-PRESS Human Machine Interface Storage temperature max Go ¹ C Storage temperature max Go ¹ C Storage temperature max Go ² C Storage temperature max Go ² C Storage temperature max Go ² C Storage tem | | |
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| Additional features Additional features Polarized model Colour LED Red Colour LED Digital inputs 2 Colour LED Digital inputs Soft Sof | 1D Code types | Auto discriminates all standard 1D codes |
| Colour LED Red Digital inputs 2 Digital inputs 3 Digital outputs 35 × 54 × 45 Distance max 360 mm Distance min 20 mm Frame rate max 45 fps Integrated communication interface Res232/R5422FD Integrated communication interface Peof. P67 Material of body Auminium Number of LEDs 10 Pogramming options 0.CODE, Host Mode programming, X-PRESS Human Machine Interface Readable code types 10/ Linear Codes, Postal Codes Resolution 1000 × 1200 (2MP) Storage temperature max 6.WG Storage temperature max 0.30 × DC Storage temperature min 0.30 × DC Storage temperature min 0.30 × DC Storage temperature operational max 45 °C Temperature operational max 0.80 × C | 2D Code Types | Aztec Code, Data Matrix, MaxiCode, Micro QR Code, QR Code, Dot Code |
| Digital inputs2Digital outputs3Dimension (mm)95x54x45Distance max360 mmDistance min0 mmFrame rate max45 fpsIntegrated communication interfaceRes232/R8322/F0.100 Mbit/s: Ethernet IP, Modbus TCP, Profinet IO, SerialRefats1065, IP67Material of body10Number of LEDsPolat Code, Postnet, Royal Mail Code (RM4SCC), Japan PostalPower consumption0Readable code types10/Linear Codes, Postal CodesResolution1000x 1200 (2MP)Storage temperature max-20° CStorage temperature max-20 | Additional features | Polarized model |
| Digital outputs3Digital outputs3Dimension (mm)95x 54 x 45Distance max350 mmDistance min0 mmFrame rate max45 fpsIntegrated communication interfaceResearce Mark States | Colour LED | Red |
| Dimension (mm)95 x 54 x 45Distance max350 mmDistance min20 mmFrame rate max45 fpsIntegrated communication interfaceEthernet 10/100 Mbit/s: Ethernet IP, Modbus TCP, Profinet IO, Serial Rs232/Rs422FDIP classIP65, IP67Material of bodyAuminiumNumber of LEDs0Postal Code TypesPlanet Code, Postnet, Royal Mail Code (RM4SCC), Japan PostalProgramming options0L/CODE, Host Mode programming, X-PRESS Human Machine InterfaceReadable code typesID / Linear Codes, 2D Codes, Postal CodesResolution20° CStorage temperature max70 °CStorage temperature min-20° CStorage temperature min0:30 V DCTemperature operational max0 °CTemperature operational max0 °CO'CTemperature operational max0 °CComposition0 °CStorage temperature operational max0 °CComposition0 °CComposition0 °CStorage temperature operational max0 °CComposition0 °CComposition0 °CStorage temperature operational max0 °CCompositional max< | Digital inputs | 2 |
| Distance max 350 mm Distance min 20 mm Frame rate max 45 fps Integrated communication interface Ethernet 10/100 Mbit/s: Ethernet IP, Modbus TCP, Profinet IO, Serial Integrated communication interface IP65. IP67 Material of body Aluminium Number of LEDs 10 Postal Code Types Planet Code, Postnet, Royal Mail Code (RM4SCC), Japan Postal Programming options 0LCODE, Host Mode programming, X-PRESS Human Machine Interface Readable code types 10/Linear Codes, 2D Codes, Postal Codes Resolution 100x 1200 (2MP) Storage temperature max 70 °C Storage temperature max 0.30 V DC Temperature operational max 0 °C Vertice 70 °C | Digital outputs | 3 |
| Distance min 20 mm Frame rate max 45 fps Integrated communication interface Ethernet 10/100 Mbit/s: Ethernet IP, Modbus TCP, Profinet IO, Serial RS232/RS422FD IP class IP65, IP67 Material of body Aluminium Number of LEDs 10 Postal Code Types Planet Code, Postnet, Royal Mail Code (RM4SCC), Japan Postal Power consumption 6 W Readable code types DL CODE, Host Mode programming, X-PRESS Human Machine Interface Resolution 100 x 1200 (2MP) Storage temperature max 70 °C Storage temperature min 20 °C Storage temperature max 5 °C Temperature operational max 5 °C Materia operational max 5 °C | Dimension (mm) | 95 x 54 x 45 |
| Frame rate max45 fpsIntegrated communication interfaceEthernet 10/100 Mbit/s: Ethernet IP, Modbus TCP, Profinet IO, Serial RS232/RS422FDIP classIP65, IP67Material of bodyAluminiumNumber of LEDsI0Postal Code TypesPlanet Code, Postnet, Royal Mail Code (RM4SCC), Japan PostalPower consumption6WProgramming optionsDL CODE, Host Mode programming, X-PRESS Human Machine InterfaceResolution1600 x 1200 (2MP)Storage temperature max70 °CStorage temperature min-0.30 V DCTemperature operational max45 °CWeight-0.30 V DC | Distance max | 350 mm |
| Integrated communication interface Ethernet 10/100 Mbit/s: Ethernet IP, Modbus TCP, Profinet IO, Serial RS232/RS422FD IP class IP65, IP67 Material of body Aluminium Number of LEDs 10 Postal Code Types Planet Code, Postnet, Royal Mail Code (RM4SCC), Japan Postal Power consumption 6 W Programming options DL.CODE, Host Mode programming, X-PRESS Human Machine Interface Readable code types 1600 x 1200 (2MP) Sensor Type CMOS Storage temperature min -20 °C Supply voltage 10-30 V DC Temperature operational max 45 °C Weight 27 g | Distance min | 20 mm |
| RS232/RS422FD IP class IP65, IP67 Material of body Aluminium Number of LEDs 10 Postal Code Types Planet Code, Postnet, Royal Mail Code (RM4SCC), Japan Postal Power consumption 6 W Programming options DL CODE, Host Mode programming, X-PRESS Human Machine Interface Resolution 160x 1200 (2MP) Storage temperature max 70 °C Storage temperature min -20 °C Temperature operational max 45 °C Temperature operational max 0 °C Weight 274 g | Frame rate max | 45 fps |
| Material of body Aluminium Number of LEDs 10 Postal Code Types Planet Code, Postnet, Royal Mail Code (RM4SCC), Japan Postal Power consumption 6 W Programming options DL.CODE, Host Mode programming, X-PRESS Human Machine Interface Readable code types 1D / Linear Codes, 2D Codes, Postal Codes Resolution 1600 x 1200 (2MP) Storage temperature max 70 °C Storage temperature min -20 °C Storage temperature min 0.°C Temperature operational max 6 °C Weight 274 g | Integrated communication interface | |
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| Postal Code Types Planet Code, Postnet, Royal Mail Code (RM4SCC), Japan Postal Power consumption 6 W Programming options DL. CODE, Host Mode programming, X-PRESS Human Machine Interface Readable code types 1D / Linear Codes, 2D Codes, Postal Codes Resolution 1600 x 1200 (2MP) Storage temperature max 70 °C Storage temperature min -20 °C Supply voltage 10-30 V DC Temperature operational max 0 °C Veight 274 g | Material of body | Aluminium |
| Power consumption6 WProgramming optionsDL.CODE, Host Mode programming, X-PRESS Human Machine InterfaceReadable code types1D / Linear Codes, 2D Codes, Postal CodesResolution1600 x 1200 (2MP)Sensor TypeCMOSStorage temperature max70 °CStorage temperature min0-30 V DCTemperature operational max6'S °CTemperature operational max0'CYeight274 g | Number of LEDs | 10 |
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| Resolution 1600 x 1200 (2MP) Sensor Type CMOS Storage temperature max 70 °C Storage temperature min -20 °C Supply voltage 10-30 V DC Temperature operational max 45 °C Weight 274 g | Programming options | DL.CODE, Host Mode programming, X-PRESS Human Machine Interface |
| Sensor Type CMOS Storage temperature max 70 °C Storage temperature min -20 °C Supply voltage 10-30 V DC Temperature operational max 45 °C Temperature operational max 0 °C Yeight 274 g | Readable code types | 1D / Linear Codes, 2D Codes, Postal Codes |
| Storage temperature max70 °CStorage temperature min-20 °CSupply voltage10-30 V DCTemperature operational max45 °CTemperature operational min0 °CWeight274 g | Resolution | 1600 x 1200 (2MP) |
| Storage temperature min -20 °C Supply voltage 10-30 V DC Temperature operational max 45 °C Temperature operational min 0 °C Weight 274 g | Sensor Type | CMOS |
| Supply voltage 10-30 V DC Temperature operational max 45 °C Temperature operational min 0 °C Weight 274 g | Storage temperature max | 70 °C |
| Temperature operational max 45 °C Temperature operational min 0 °C Weight 274 g | Storage temperature min | -20 °C |
| Temperature operational min 0 °C Weight 274 g | Supply voltage | 10-30 V DC |
| Weight 274 g | Temperature operational max | 45 °C |
| | Temperature operational min | 0°0 |
| Viewing angle 9mm (H:44°, V:34°, D:54°) | Weight | 274 g |
| | Viewing angle | 9mm (H:44°, V:34°, D:54°) |



DIF



54 mm



54 mm



75 mm



DIF



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