### DATALOGIC MATRIX 300N IMAGER

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

for possible replacements\*\*

### MATRIX300N435010

\*\*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The MATRIX300N has been made obsolete and superseded by MATRIX320N 2MP OR MATRIX220 X 1.2MP.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<sup>™</sup> 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<sup>™</sup> 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<sup>™</sup> 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.

## ODATALOGIC.

# **TECHNICAL DATA**

| ID Code typesAuto discriminates all standard 1D codes2D Code TypesActec Code, Data Matrix, MaxiCode, Micro CAR Code, CAR Code, DAT COD |                                    |   |
|--|------------------------------------|---|
| Additional featuresNarrow angle opticsDigital inputs2Digital outputs3Dimension (mm)95 x 54 x 43Frame rate max60 fpsIntegrated communication interfaceEthernet 10/100, RS-232/RS422/RS485Indegrated communication interfaceEthernet 10/100, RS-232/RS422/RS485Integrated communication interfacePosticIntegrated communication interfacePosticIntegrated communication interfacePosticPostic Code TypesPoint Code, Postint, Royal Mail Code (RM4SCC), Japan PostialPostial Code TypesVindows-based SW (DLCODE) via EthernetReadable code typesU/ Linear Codes, 2D Codes, Postial CodesPostinter TypeCodesStorage temperature maxCode CodeStorage temperature operational maxSin CodeStorage temperature operational maxSin CodeStorage temperature operational maxSin Code  | 1D Code types                      | Auto discriminates all standard 1D codes                            |
| Digital inputs2Digital outputs3Digital outputs95x54x43Frame rate max00 fpsIntegrated communication interfaceHennet 10/100, RS-232/RS422/RS485Prate rate max1097Lens material1096Lens stypeManual focusMaterial of bodyAuminiumPostal Code TypesPonet Code, Postnet, Royal Mail Code (RM4SCC), Japan PostalPower consumptionSWReadable code types10/ Linear Codes, 2D Codes, Postal CodesResolution2000 Codes, Postal CodesStater typeGlobalStater typeGlobalResolution200 Codes, Postal CodesStater typeGlobalStater typeG   | 2D Code Types                      | Aztec Code, Data Matrix, MaxiCode, Micro QR Code, QR Code, Dot Code |
| Digital outputs3Digital outputs3Dimension (nm)9Frame rate max60 fpsIntegrated communication interfaceEhemet 10/100, RS-232/RS422/RS425I class1967I class1967Lens material9Advaniation for SymmetryManual focusLens typeManual focusMaterial of bodyAluminumPostal Code TypesPiaet Code, Postnet, Royal Mail Code (RM4SCC), Japan PostalPower consumption5WReadable code types10 / Linear Codes, 2D Codes, Postal CodesResolution1200x1024 (LIMP)Startor TypeCodeStorage temperature max0Cotage temperature max0Longate temperature max0Storage temperature max0Cotage temperature max0Cotage temperature max0Storage temperature max <th< th=""><th>Additional features</th><th>Narrow angle optics</th></th<>   | Additional features                | Narrow angle optics   |
| Dimension (mm)95 x 54 x 43Pinem rate max00 fpsIntegrated communication interfaceEhement 10/100, RS-232/RS422/RS485Picas1967Integrated communication interface1967PicasNanual focusLens materialNanual focusLons typeNanual focusPotat Code, Postnet, Royal Mail Code (RM4SCC), Japan PostalPower consumption5WProgramming optionsNindow-based SW (DL CODE) via EthernetReadable code typesNol Scal SCAL (SAMP)Storage temperature maxGlobalStorage temperature max0°CCorage temperature max0°CCorage temperature max0°CTemperature operational max0°CKengeture operational max0°CStorage temperature max0°C <th>Digital inputs</th> <th>2</th>   | Digital inputs                     | 2   |
| Frame rate max60 fpsFrame rate max60 fpsIntegrated communication interfaceElement 10/100, RS-232/RS422/RS485IP classIP67IP classIP67Lens typeManual focusAterial of bodyAluminiumPostal Code TypesPanet Code, Postnet, Royal Mail Code (RM4SCC), Japan PostalPower consumption5 WPorgramming optionsID / Linear Codes, Postal CodesReadable code types10 / Linear Codes, Postal CodesSenor TypeGlobalStrange temperature max0 °CStrange temperature max0 °CStrange temperature max0 °CTemperature operational max0 °CWeight0 °CWeight0 °C  | Digital outputs                    | 3   |
| Integrated communication interfaceEthernet 10/100, RS-323/RS422/RS485Integrated communication interfaceEthernet 10/100, RS-323/RS422/RS485IP classIP 67Lens materialPlasticLens typeManual focusMaterial of bodyAluminiumPostal Code TypesPlanet Code, Postnet, Royal Mail Code (RM4SCC), Japan PostalPower consumptionSWProgramming optionsID / Linear Codes, 2D Codes, Postal CodesReadable code typesIdous - Sude (LI, SMP)Sensor TypeGolosStorage temperature maxOr °CStorage temperature maxOr °CStorage temperature maxSo °CTemperature operational maxSo °CKeightSig gal Call   | Dimension (mm)                     | 95 x 54 x 43  |
| IP classIP67Iens materialIPasticLens typeManual focusMaterial of bodyAluminiumPostal Code TypesPlanet Code, Postnet, Royal Mail Code (RM4SCC), Japan PostalPower consumptionSWProgramming optionsUniniumReadable code typesD/ Linear Codes, 2D Codes, Postal CodesResolutionCMOSStutter typeGlobalStutter typeOlo SStorage temperature main0° CSuppy voltage0.9 CTemperature operational max0° CTemperature operational max0° CWeight28 g  | Frame rate max                     | 60 fps  |
| Lens materialPlasticLens typeManual focusMaterial of bodyAluminiumPostal Code TypesPlanet Code, Postnet, Royal Mail Code (RM4SCC), Japan PostalPower consumptionSWProgramming optionsWindows-based SW (DL:CODE) via EthernetReadable code types1D / Linear Codes, 2D Codes, Postal CodesResolution1280 x 1024 (1.3MP)Storage temperature max0''CStorage temperature min-0''CSupply voltage0:0'O''CTemperature operational max0''CWindy Supply Supple Su   | Integrated communication interface | Ethernet 10/100, RS-232/RS422/RS485                                 |
| Lens typeManual focusMaterial of bodyAuminiumPostal Code TypesPlanet Code, Postnet, Royal Mail Code (RM4SCC), Japan PostalPower consumptionSVProgramming optionsUindows-based SW (DL:CODE) via EthernetReadable code types120 / Linear Codes, Postal CodesResolution280x 1024 (1.3MP)Sensor TypeGlobalStorage temperature max0° CStorage temperature min0.30 V DCTemperature operational max0° CTemperature operational max0° CWeight380 g   | IP class                           | IP67  |
| Material of bodyAluminumPostal Code TypesPlanet Code, Postnet, Royal Mail Code (RM4SCC), Japan PostalPower consumption5 WProgramming optionsWindows-based SW (DL.CODE) via EthernetReadable code types1D / Linear Codes, 2D Codes, Postal CodesResolution1280 x 1024 (1.3MP)Sensor TypeCMOSShutter type0ibalStorage temperature max70 °CStorage temperature min0.0°CTemperature operational max0.°CTemperature operational min0.°CWeight288 g  | Lens material                      | Plastic   |
| Postal Code TypesPlanet Code, Postnet, Royal Mail Code (RM4SCC), Japan PostalPower consumption5WProgramming optionsWindows-based SW (DL.CODE) via EthernetReadable code types1D / Linear Codes, 2D Codes, Postal CodesResolution1280 x 1024 (1.3MP)Sensor TypeGlobalShutter typeGlobalStorage temperature max0° CStorage temperature min0° CTemperature operational max0° CTemperature operational min0° CWeight28 g   | Lens type                          | Manual focus  |
| Power consumption5 WProgramming optionsWindows-based SW (DL.CODE) via EthernetReadable code types1D / Linear Codes, 2D Codes, Postal CodesResolution1280 x 1024 (1.3MP)Sensor TypeCMOSShutter typeGlobalStorage temperature max70 °CStorage temperature min-20 °CTemperature operational max50 °CTemperature operational max0 °CWeight238 g  | Material of body                   | Aluminium   |
| Programming optionsWindows-based SW (DL.CODE) via EthernetReadable code types1D / Linear Codes, Postal CodesResolution1280 x 1024 (1.3MP)Sensor TypeCMOSShutter typeGlobalStorage temperature max70 °CStorage temperature min-20 °CSupply voltage10-30 V DCTemperature operational max0 °CTemperature operational max0 °CWeight288 g   | Postal Code Types                  | Planet Code, Postnet, Royal Mail Code (RM4SCC), Japan Postal        |
| Readable code typesID / Linear Codes, Postal CodesResolution180 x 1024 (1.3MP)Sensor TypeCMOSShutter typeGlobalStorage temperature max70 °CStorage temperature min-20 °CSupply voltage10-30 V DCTemperature operational max0°CTemperature operational max0°CWeight28 g   | Power consumption                  | 5 W   |
| Resolution1280 x 1024 (1.3MP)Sensor TypeCMOSShutter typeGlobalStorage temperature max70 °CStorage temperature min-20 °CSupply voltage10-30 V DCTemperature operational max0 °CWeight28 g   | Programming options                | Windows-based SW (DL.CODE) via Ethernet                             |
| Sensor TypeCMOSShutter typeGlobalStorage temperature max70°CStorage temperature min-20°CSupply voltage10-30 V DCTemperature operational max0°CWeight238 g  | Readable code types                | 1D / Linear Codes, 2D Codes, Postal Codes                           |
| Shutter type     Global       Storage temperature max     70 °C       Storage temperature min     -20 °C       Supply voltage     10-30 V DC       Temperature operational max     50 °C       Weight     28 g   | Resolution                         | 1280 x 1024 (1.3MP)   |
| Storage temperature max70 °CStorage temperature min-20 °CSupply voltage10-30 V DCTemperature operational max50 °CTemperature operational min0 °CWeight238 g  | Sensor Type                        | CMOS  |
| Storage temperature min-20 °CSupply voltage10-30 V DCTemperature operational max50 °CTemperature operational min0 °CWeight238 g  | Shutter type                       | Global  |
| Supply voltage10-30 V DCTemperature operational max50 °CTemperature operational min0 °CWeight238 g   | Storage temperature max            | 70 °C   |
| Temperature operational max 50 °C   Temperature operational min 0 °C   Weight 238 g  | Storage temperature min            | -20 °C  |
| Temperature operational min 0 °C   Weight 238 g  | Supply voltage                     | 10-30 V DC  |
| Weight 238 g   | Temperature operational max        | 50 °C   |
|  | Temperature operational min        | 0°0   |
| Viewing angle 24° (16mm)   | Weight                             | 238 g   |
|  | Viewing angle                      | 24° (16mm)  |



