

## DATALOGIC MATRIX 120 IMAGER

MATRIX120311000

937800008, Ultra-compact, 1.2MP SER+USB, Wide angle

- WVGA or 1.2 MP resolution
- Detects 1D and 2D code types
- Up to 57 fps
- Integrated communication via RS-232/RS-422/USB 2.0  
high speed, Ethernet 10/100: Ethernet, Profinet I/O



### PRODUCT DESCRIPTION

The Matrix 120™ from Datalogic is the smallest ultra-compact industrial imager on the market, that can fit into any integration space, with embedded ethernet connectivity option.

Available in different models, a WVGA sensor is for standard applications, or the 1.2MP sensor for high resolution bar codes. A wide angle version is what makes the Matrix120™ the perfect solution for proximity reading, characterized with top industrial grade parts providing IP 65 protection. ESD safe models are perfect for applications in the electric industry, featuring a glass free reading window which is ideal for the food and beverage industry.

The Matrix 120™ leads the market in customer ease of use because of DL.CODE™ configuration software, X-Press™ button and intuitive HMI.

Ideal for applications where small dimensions, simple integration and performance are key drivers:

- Chemical/Biomedical industry
- Print & Apply applications
- Entry level applications in the Factory Automation area
- Electronics
- Packaging
- Food/Beverage

## TECHNICAL DATA

### 1D Code types

Auto discriminates all standard 1D codes

<b>2D Code Types</b>	Aztec Code, Data Matrix, MaxiCode, Micro QR Code, QR Code, Dot Code
<b>Additional features</b>	Wide angle optics
<b>Cable length</b>	1000 mm
<b>Connection type</b>	SER+USB
<b>Digital inputs</b>	2
<b>Digital outputs</b>	2
<b>Dimension (mm)</b>	45.4 x 31.1 x 23.5
<b>Distance max</b>	220 mm
<b>Distance min</b>	25 mm
<b>Frame rate max</b>	36 fps
<b>Integrated communication interface</b>	RS-232/RS-422/USB 2.0 high speed (USB-CDC, USB-HID)
<b>IP class</b>	IP65
<b>Lens material</b>	Plastic
<b>Material of body</b>	Aluminium
<b>Multi label reading</b>	Yes
<b>Postal Code Types</b>	Planet Code, Postnet, Royal Mail Code (RM4SCC), Japan Postal
<b>Power consumption</b>	2.4 W
<b>Programming options</b>	DL.CODE, Serial Host Mode programming, X-PRESS Human Machine Interface
<b>Readable code types</b>	1D / Linear Codes, 2D Codes, Postal Codes
<b>Resolution</b>	1.2 MP - 1280x960 px
<b>Sensor Type</b>	CMOS
<b>Shutter type</b>	Global
<b>Storage temperature max</b>	70 °C
<b>Storage temperature min</b>	-20 °C
<b>Supply voltage</b>	5 - 30 V DC
<b>Temperature operational max</b>	45 °C
<b>Temperature operational min</b>	0 °C
<b>Weight</b>	117 g