

DATALOGIC - VISION SENSOR DATAVS2 PRO

DATAVS2-08REPRO

Vision Sensor, 8mm lens, PRO, Red LED

- 360° pattern recognition / Controls for Bar code, Datamatrix
- Memory for up to 20 different inspections
- 3 outputs
- R232 interface



Product description

DataVS2 is a series of Vision sensors for flexible solutions for machine applications.

The sensor is complete with optics, red LED lighting and electronics in a compact housing. The parameters in the sensor are set via PC through Ethernet communication. The software comes with the sensor and is developed to lead the user step by step through parameter setting. DataVS2 is available in 4 different versions with different control instruments.

The PRO model - handles the functions in the Advanced and ID models.

It manages 360° pattern recognition and also bar code, datamatrix and OCV. It also has 5 new instruments: 3 locators (Bar code, Datamatrix and 360° contour matching)

2 controls: 360° contour counter, 360° defect finder



Technical data

Supply voltage	24 V DC $\pm 10\%$
Ripple	1Vpp max. with lighting 2Vpp without lighting
Current consumption	100 mA at 24 VDC (without lighting)
Output type	3 PNP, 100 mA max.
	RS232
Resolution	640x480 (VGA)
Network interface	M12 4-pole Ethernet 10/100 Mbs
Interface external lighting	Strobe signal (24 V PNP N.O)

Power consumption max	0.1
Resolution	640x480 (VGA)
Temperature range from	-10
Temperature range to	50
Voltage DC max	24
Voltage DC min	24
Voltage Tolerance	10%

The professional model includes in the same software all the functionalities already available on Advanced and Identification sensors. Moreover it features 5 new software tools: 3 locators and 2 controls.

Locators	Functioning
Barcode	Finds a barcode in the Region Of Interest and re-locates all the other inspection controls accordingly.
Datamatrix	Finds a datamatrix code in the Region Of Interest and re-locates all the other inspection controls accordingly.
360° Contour Match	Finds a reference template in the Region Of Interest and re-locates all the other inspection controls accordingly.

Controls	Functioning
360° Contour Counter	Counts how many times a reference contour is present in the Region Of Interest.
360° Defect Finder	Detects even smallest defects on a part.

Step 1: Image Setup

The first step consists in connecting the sensor and configuring the image quality parameters. When the desired results are obtained, the user can memorise the image that will be used as a template during sensor functioning.

Step 2: Teach

The second step establishes the acceptance criteria to distinguish objects from wastes. One or more controls can be selected according to the task to carry out.

Step 3: Run

The third step configures the sensor digital outputs, simulates sensor functioning on the PC to verify the controls chosen and activates the operating phase on the sensor using the PC only to control the diagnostics.

M12 4-pole Ethernet

1 = white/orange = RX+
2 = white/green = TX+
3 = orange = RX-
4 = green = TX-

M12 8-pole (power supply and I/O)

OBJ and AOR models

1 = white = digital input 1
2 = brown = 24 Vdc
3 = green = configurable output
4 = yellow = output 1
5 = grey = output 2
6 = pink = output 3
7 = blue = GND
8 = red = external trigger

ID and PRO models

1 = white = RS232 RX
2 = brown = 24 Vdc
3 = green = configurable output
4 = yellow = output 1
5 = grey = output 2
6 = pink = RS232 TX
7 = blue = GND
8 = red = external trigger

Step 1: Image Setup

The first step consists in connecting the sensor and configuring the image quality parameters. When the desired results are obtained, the user can memorise the image that will be used as a template during sensor functioning.

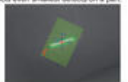
Step 2: Teach

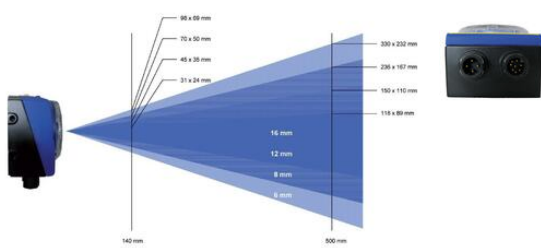
The second step establishes the acceptance criteria to distinguish objects from wastes. One or more controls can be selected according to the task to carry out.

Step 3: Run

The third step configures the sensor digital outputs, simulates sensor functioning on the PC to verify the controls chosen and activates the operating phase on the sensor using the PC only to control the diagnostics.

The professional model includes in the same software all the functionalities already available on Advanced and Identification versions. Moreover it features 5 new software tools: 3 locators and 2 controls.

Locators	Functioning
Barcode	Finds a barcode in the Region Of Interest and re-locates all the other inspection controls accordingly. 
Datamatrix	Finds a datamatrix code in the Region Of Interest and re-locates all the other inspection controls accordingly. 
360° Contour Match	Finds a reference template in the Region Of Interest and re-locates all the other inspection controls accordingly.  
Controls	Functioning
360° Contour Counter	Counts how many times a reference contour is present in the Region Of Interest. 
360° Defect Finder	Detects even smallest defects on a part.  



M12 4-pole Ethernet



- 1 = white/orange = RX+
- 2 = white/green = TX+
- 3 = orange = RX-
- 4 = green = TX-

M12 8-pole (power supply and I/O)



- OBJ and AOR models**
- 1 = white = digital input 1
 - 2 = brown = 24 Vdc
 - 3 = green = configurable output
 - 4 = yellow = output 1
 - 5 = grey = output 2
 - 6 = pink = output 3
 - 7 = blue = GND
 - 8 = red = external trigger
- ID and PRO models**
- 1 = white = RS232 RX
 - 2 = brown = 24 Vdc
 - 3 = green = configurable output
 - 4 = yellow = output 1
 - 5 = grey = output 2
 - 6 = pink = RS232 TX
 - 7 = blue = GND
 - 8 = red = external trigger

