

COLATACO

TECHNICAL DATA

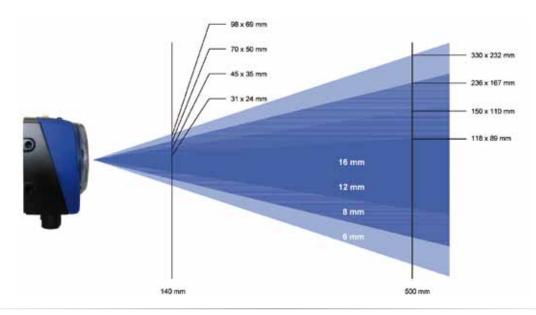
Power supply:
Ripple:
Consumption:
Output type:
Output current:
Saturation voltage:
Network interface:
Serial interface:
External illuminator interface:
Frame rate:
Optics:
Illuminator:
Setting:
Indicators:
Connections:
Mechanical protection:
Protection devices:
Housing material:
Weight:
Operating temperature:
Storage temperature:

24 Vdc ±10 % 1 Vpp max with illuminator 2 Vpp without illuminator 100 mA at 24 Vdc (without illuminator) 3+1 PNP 100 mA max < 2 V M12 4-pole Ethernet 10/100 Mbs RS232 (only ID and PRO models) Strobe signal (24 V PNP N.O.) 60 fps integrated (6 mm / 8 mm / 12 mm / 16 mm) Red or Infrared TEACH push-button 4 LED M12 8 pole A-code M12 4 pole D-code IP50 A, B aluminium alloy / ABS 125 g -10 ... +50°C -25 ... +70°C



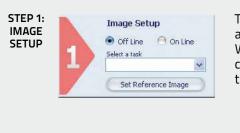
FIELD OF VIEW

OPERATING	FIELD OF VIEW (WIDTH X HEIGHT) IN MM					
DISTANCE (MM)	DATAVS2-06-XX-XXX	DATAVS2-08-XX-XXX	DATAVS2-12-XX-XXX	DATAVS2-16-XX-XXX		
50	42 x 30	25 x 20	17 x 12	-		
80	60 x 41	40 x 30	25 x 20	-		
110	80 x 55	55 x 40	33 x 25	-		
140	98 x 69	70 x 50	45 x 35	31 x 24		
170	118 x 83	85 x 60	53 x 38	39 x 29		
200	138 x 92	100 x 70	60 x 50	46 x 34		
300	201 x 140	145 x 103	90 x 65	70 x 53		
400	265 x 189	186 x 132	121 x 82	94 x 71		
500	330 x 232	236 x 167	150 x 110	118 x 89		
600	385 x 270	282 x 232	185 x 130	143 x 107		

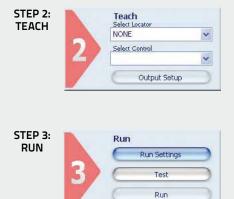


SOFTWARE PC





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.



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.

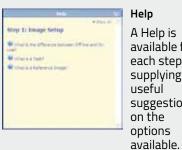
The third step configures the sensor digital outputs, simulates sensor functioning on the PC to verify the controls chosen and activates the operating phase on the sensor using the PC only to control the diagnostics.

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MAXIMUM SIMPLICITY



Discovery The Discovery function finds all the sensors connected to the network.



Help A Help is available for each step, supplying useful suggestions on the options



Inspection explorer

All the parameters connected to the inspection are grouped together and can be easily reached by the user.

Statistics

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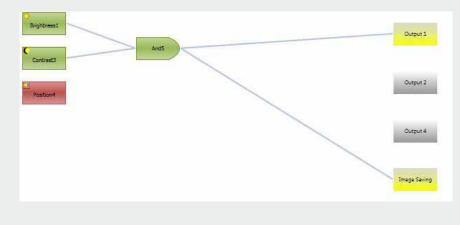
Show:	🖲 Data	💮 Graphs		Reset	Statistics
Graphs inputs:	NONE	▼ NONE ▼	NONE -	NONE -	NONE
Operator		Execution Time	Total PASSED	Total FAILED	Executed
Image acquisition	time	16,42 ms			
Brightness1		0,11 ms	215 (100%)	0 (0%)	215
Contrast3		0,83 ms	215 (100%)	0 (0%)	215
Position4		0,79 ms	0 (0%)	215 (100%)	215
Output delay time		0,00 ms			
Output duration ti	ime:	0,00 ms			
Total execution ti	me:	18,16 ms	0 (0%)	215 (100%)	215
Insp. per second:					55,06 Inspe

The statistics panel displays all the information about inspection results and execution time. Data can be shown also in a graph.

Image saving

Saving Images Settings	
C:\Documents and Settings\All Users\Dati applicazioni\Datalogic\Data\	Choose Directory
Number of images:	30 🗢

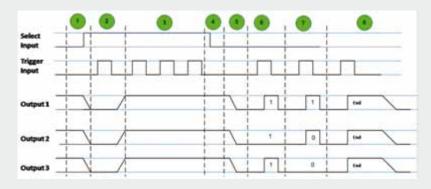
The image saving panel allows to set a folder where the acquired pictures are stored. An image saving condition can be also specified through a dedicated panel.





EXCELLENT FLEXIBILITY

Inspection selection



Each inspection is composed of a template and parameters. The user can store up to 20 different inspections on the sensor memory in order to manage different items on the same production line. The different inspections can be recalled in several different ways:

(1) using digital pulses on OBJ and AOR models

(2) through an Ethernet command on AOR, ID and PRO models

(3) through a Serial command on ID and PRO models

VSM COMPATIBILITY

All DataVS2 models (i.e. OBJ, AOR, ID and PRO) are compatible with VSM, the monitoring device that allows to display elaborated images together with inspection results. The unit also offers the possibility to change the running inspection as well as to fine-tune the vision sensor functioning parameters on-the-fly.

The device integrates a 3.5" LCD color display and 8 push buttons. It features a standard TCP/IP Ethernet interface thus it can be connected either directly to a specific vision sensor or to a Local Area Network (LAN) where more DataVS2 have been previously installed.





CONTROL TABLE

BJECT RECOGNITION						
Seven different controls able to cover the most varied applications.						
Control	Functioning	Applications	Image			
Pattern Match	Searches a sample inside a specific area	 Packaging: logo check Assembling: product orientation Post automation: stamp check 	BEAUTY Cream			
Contour Match	Shape control	 Metal working: integrity control Food: coffee waffle shape control 				
Position	Check of object border position	 Bottling: liquid level control: Food: label position control 				
Width	Measures object width	 Assembling: plastic part control Wood industry: branch thickness measurement 				
Counting	Counts the objects along a line	 Electronics: component counting Pharmaceutical: blister stack counting 				
Contrast	Contrast calculation	 Food: date and lot presence control Metal working: laser marking control 	Contraction of the second seco			
Brightness	Brightness calculation	 Bottling: cap presence control Packaging: object counting 				

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ADVANCED MODELS (AOR)

The Advanced Object Recognition (AOR) models integrate new important functionalities, including:



360° Pattern Match Locator Object detection independent from rototranslations.



Logical tools Possibility to combine the results of the single tools through boolean operator (AND, OR, NOT, etc.)



Advanced Ethernet Current inspection results available also on Ethernet communication.



Speed-up High execution speed thanks to the management of reduced resolution and TURBO mode.

360° Pattern match

The Advanced Object Recognition (AOR) models include all the controls and locators available on Object Recognition models as well as the new 360° Geometric Pattern Match Locator.









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IDENTIFICATION MODELS (ID)

CONTROL	FUNCTIONING		IMAGE
Barcode reader	Decode: read and decode one (barcode in the Region String match: read and decode one (barcode and compare reference strings. Counter: count the number of b Region Of Interest.	Of Interest. or more) it with a set of	
Datamatrix reader	Decode: read and decode one (datamatrix in the Reg String match: read and decode one (datamatrix and compa of reference strings. Counter: count the number of d Region Of Interest.	or more) are it with a set	Gedruc mit krat Zweidin
QR Code reader	Decode: read and decode one (QR Code in the Region String match: read and decode one (QR Code and compare of reference strings. Counter: count the number of C Region Of Interest.	or more) it with a set	
οςν	Verify the readability of characters.	of printed	insportane Car in consumary prefer obtimente entre 09 10 11 - المحدود بروان عرب المحدود المالة المالة الحري وال عرب المحدود
Symbologies			
	Codabar		PDF417
	Code 39		Pharmacode
	Code 128	holloldallalabilaladallaladallabi	Janual Postnet
	EAN-8 EAN-13 EAN-128	արձվիմի կինքնի վիրը նորը կանություն։	ililinii IMB
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	UPC-E	回税 第48	Micro QR

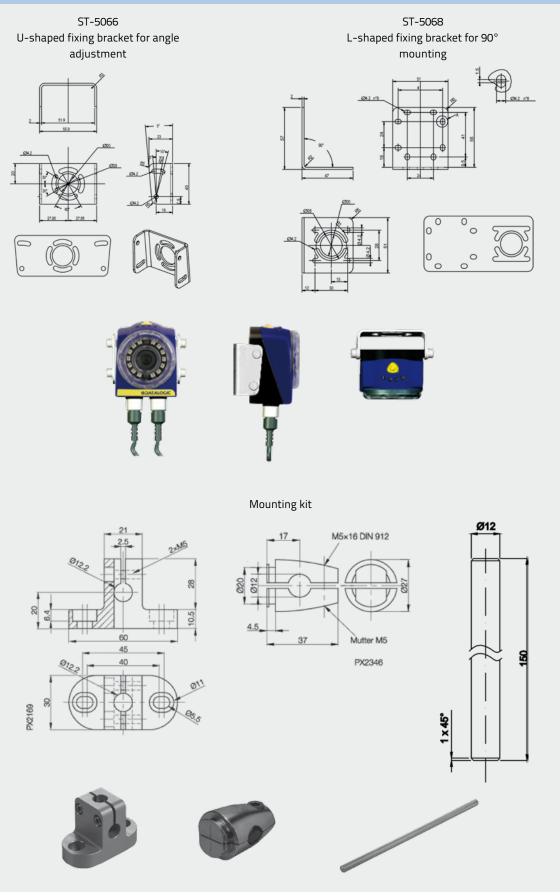
PROFESSIONAL MODELS (PRO)

The professional model includes in the same software all the functionalities already available on Advanced and Identification versions. Moreover it features 6 new software tools: 4 locators and 2 controls.

LOCATORS	FUNCTIONING
Barcode	Finds a barcode in the Region Of Interest and re-locates all controls accordingly.
Datamatrix	Finds a datamatrix code in the Region Of Interest and re-locates all controls accordingly.
QR Code	Finds a QR Code in the Region Of Interest and re-locates all controls accordingly
360° Contour Match	Finds a reference template in the Region Of Interest and re-locates 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.

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ACCESSORIES



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MODEL SELECTION TABLE

MODEL	OPTIC	ILLUMINATOR	I/O	RS232	SOFTWARE	LOGICAL TOOLS	ORDER N°
DataVS2-06-DE-OBJ	6mm	Red	4 outputs - 2 inputs		Basic		959951050
DataVS2-08-DE-OBJ	8mm	Red	4 outputs - 2 inputs		Basic		959951060
DataVS2-12-DE-OBJ	12mm	Red	4 outputs - 2 inputs		Basic		959951070
DataVS2-16-DE-OBJ	16mm	Red	4 outputs - 2 inputs		Basic		959951030
DataVS2-06-DE-AOR	6mm	Red	4 outputs - 2 inputs		Advanced	•	959951000
DataVS2-08-DE-AOR	8mm	Red	4 outputs - 2 inputs		Advanced	•	959951010
DataVS2-12-DE-AOR	12mm	Red	4 outputs - 2 inputs		Advanced	•	959951020
DataVS2-16-DE-AOR	16mm	Red	4 outputs - 2 inputs		Advanced	•	959951040
DataVS2-06-RE-ID	6mm	Red	3 outputs - 1 input	•	Identification	•	959951130
DataVS2-08-RE-ID	8mm	Red	3 outputs - 1 input	•	Identification	•	959951140
DataVS2-12-RE-ID	12mm	Red	3 outputs - 1 input	•	Identification	•	959951120
DataVS2-16-RE-ID	16mm	Red	3 outputs - 1 input	•	Identification	•	959951190
DataVS2-06-RE-PRO	6mm	Red	3 outputs - 1 input	•	Professional	•	959951220
DataVS2-08-RE-PRO	8mm	Red	3 outputs - 1 input	•	Professional	•	959951230
DataVS2-12-RE-PRO	12mm	Red	3 outputs - 1 input	•	Professional	•	959951240
DataVS2-16-RE-PRO	16mm	Red	3 outputs - 1 input	•	Professional	•	959951250
DataVS2-06-DE-AOR-I	6mm	Infrared	4 outputs - 2 inputs		Advanced	•	959951300
DataVS2-08-DE-AOR-I	8mm	Infrared	4 outputs - 2 inputs		Advanced	•	959951310
DataVS2-12-DE-AOR-I	12mm	Infrared	4 outputs - 2 inputs		Advanced	•	959951320
DataVS2-16-DE-AOR-I	16mm	Infrared	4 outputs - 2 inputs		Advanced	•	959951330
DataVS2-06-RE-PRO-I	6mm	Infrared	3 outputs - 1 input	•	Professional	•	959951260
DataVS2-08-RE-PRO-I	8mm	Infrared	3 outputs - 1 input	•	Professional	•	959951270
DataVS2-12-RE-PRO-I	12mm	Infrared	3 outputs - 1 input	•	Professional	•	959951280
DataVS2-16-RE-PRO-I	16mm	Infrared	3 outputs - 1 input	•	Professional		959951290

ACCESSORY SELECTION AND ORDER INFORMATION

MODEL	DESCRIPTION	ORDER N°
CV-A1-36-B-03	M12 8-pin shielded cable 3m	95A255430
CV-A1-36-B-05	M12 8-pin shielded cable 5m	95A255440
CV-A1-36-B-10	M12 8-pin shielded cable 10m	95A255450
DATAVS-ST-5068	L-shaped fixing bracket for 90° mounting	95A901320
DATAVS-ST-5066	U-shaped fixing bracket for angle adjustment	95A901330
DATAVS-CV-RJ45C-03	3 m crossed Ethernet cable	95A901340
DATAVS-CV-RJ45D-03	3 m direct Ethernet cable	95A901350
DATAVS-MK-01	Mounting kit	95A901380

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L'azienda si impegna per il continuo miglioramento e rinnovamento dei prodotti, per questo motivo i dati tecnici e il contenuto di questo catalogo possono subire variazioni senza preavviso. Per la corretta installazione e l'uso, l'azienda può garantire solo i dati indicati nel manuale di istruzioni fornito con il prodotto.