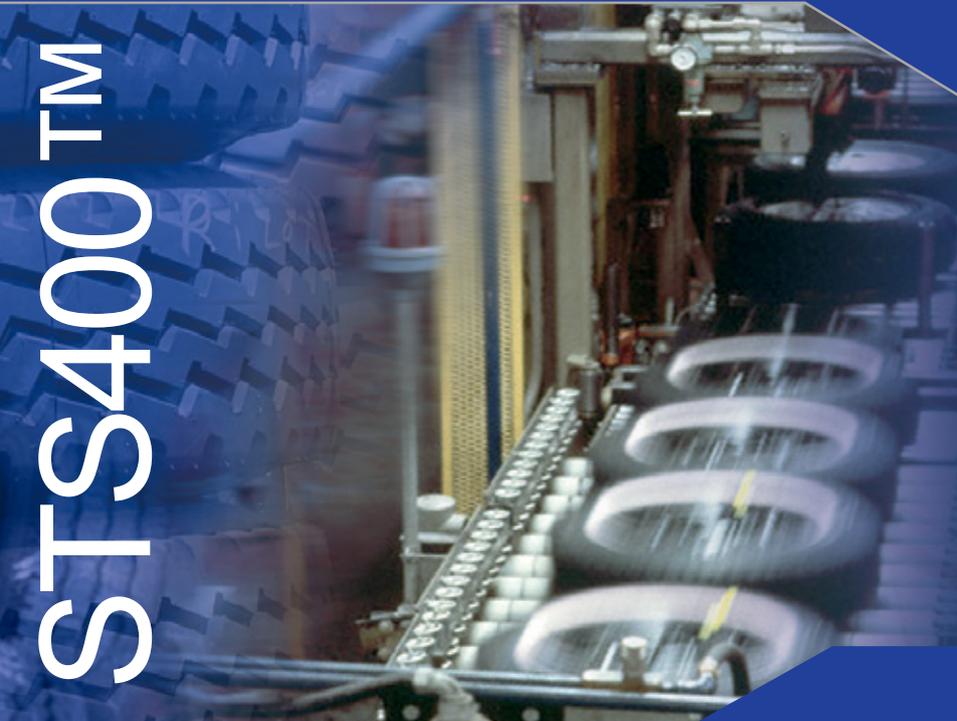


STS400™



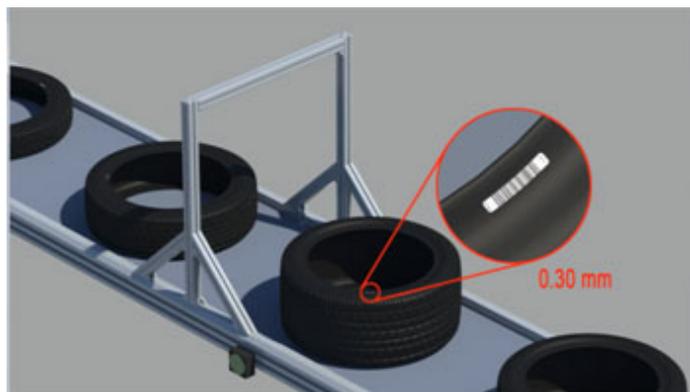
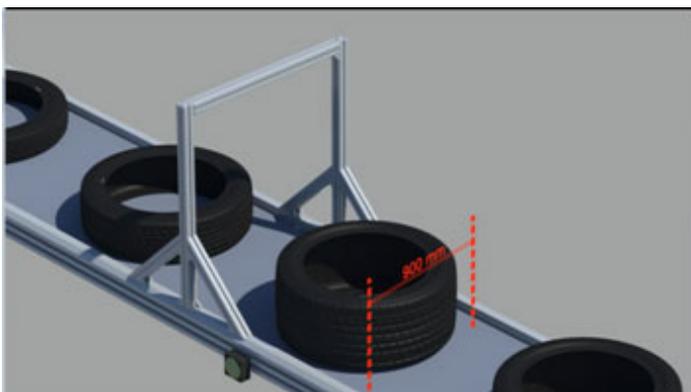
PRODUCT GUIDE

Solution for Tires Sorting

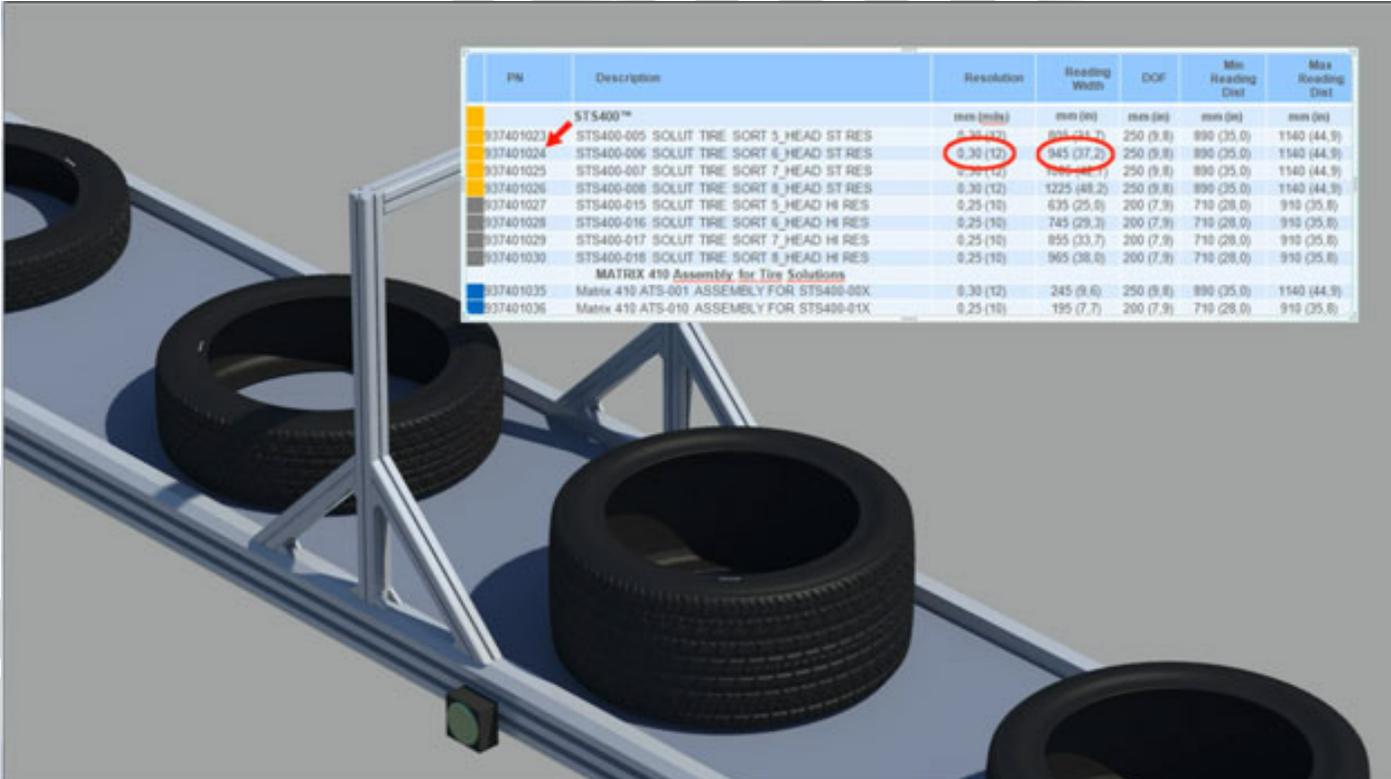
STS400™ - SOLUTION FOR TIRE SORTING

MODELS SELECTION

Matching the application requirements to the solution selection is an easy process. All that's needed are the barcode resolution and the conveyor width, getting a single order number for a complete reading solution. A simple match table is available for a quick model selection.



PN	Description	Resolution	Reading Width	DOF	Min Reading Dist	Max Reading Dist
		mm (in)	mm (in)	mm (in)	mm (in)	mm (in)
STS400™						
937401023	STS400-005 SOLLUT TIRE SORT 5_HEAD ST RES	0.30 (12)	890 (35.1)	250 (9.8)	890 (35.0)	1140 (44.9)
937401024	STS400-006 SOLLUT TIRE SORT 6_HEAD ST RES	0.30 (12)	945 (37.2)	250 (9.8)	890 (35.0)	1140 (44.9)
937401025	STS400-007 SOLLUT TIRE SORT 7_HEAD ST RES	0.30 (12)	1000 (39.4)	250 (9.8)	890 (35.0)	1140 (44.9)
937401026	STS400-008 SOLLUT TIRE SORT 8_HEAD ST RES	0.30 (12)	1225 (48.2)	250 (9.8)	890 (35.0)	1140 (44.9)
937401027	STS400-015 SOLLUT TIRE SORT 5_HEAD H RES	0.25 (10)	635 (25.0)	200 (7.9)	710 (28.0)	910 (35.8)
937401028	STS400-016 SOLLUT TIRE SORT 6_HEAD H RES	0.25 (10)	745 (29.3)	200 (7.9)	710 (28.0)	910 (35.8)
937401029	STS400-017 SOLLUT TIRE SORT 7_HEAD H RES	0.25 (10)	855 (33.7)	200 (7.9)	710 (28.0)	910 (35.8)
937401030	STS400-018 SOLLUT TIRE SORT 8_HEAD H RES	0.25 (10)	965 (38.0)	200 (7.9)	710 (28.0)	910 (35.8)
MATRIX 410 Assembly for Tire Solutions						
937401035	Matrix 410 ATS-001 ASSEMBLY FOR STS400-00X	0.30 (12)	245 (9.6)	250 (9.8)	890 (35.0)	1140 (44.9)
937401036	Matrix 410 ATS-010 ASSEMBLY FOR STS400-01X	0.25 (10)	195 (7.7)	200 (7.9)	710 (28.0)	910 (35.8)



STS400™ SOLUTION FOR TIRES SORTING

STS400™ is a first-in-class solution to effectively address the demanding requirements of Tire Tracking and Traceability.

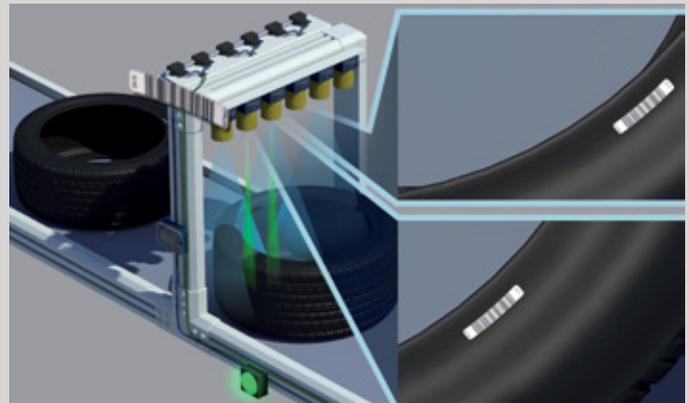
Tracking and Traceability is a primary need of tire manufactures. In logistics, WIP, quality control, and compliance, tires get tracked at every step of production process. Starting with raw materials through tire assembly, to the end-of-line sorting, reading the bar-code on tires is critical. But reading a bar-code on tires is a difficult task: it calls for omni-directional reading of low aspect ratio codes, whose quality degenerates during the manufacturing process. If the correct scanning technology is not applied, it may result in loss of production efficiency, additional manual handling, and extra costs for compliance management.

STS400™ is extremely compact and based on a self-contained structure. The solution excels in delivering top reading performance with simplicity of installation and maintenance. For example the solution is pre-assembled and calibrated, making integration into a tire sorting system quicker than ever. In less than one hour, with no special tools or training, the STS400™ can go from the shipping carton to reading tires in the production line!



PERFORMANCE

The **MATRIX 410™** is the unrivalled solution for high speed sortation with minimal distance between tires.



The **MATRIX 410™** can not only read difficult codes but can transfer massive images over the Ethernet, with a full bitmap resolution.

Since the entire barcode is caught in a single capture, **MATRIX 410™** guarantees top levels of integrity of the acquisition and performs advanced processing algorithms for the code location and decoding, so making the difference with low aspect ratio codes, especially when dirty or damaged.

Powerful illuminators have been specifically designed for tire applications to increase the depth-of-field and improve the robustness of the reading, even when faced with dirty or low contrast codes.



EASY TO INSTALL

STS400™ means saving installation costs and time – 100% pre-assembled and calibrated – no focusing, no height barrier and no encoder required. The high read rates are guaranteed by the factory validated reading performance. Also the self-contained mechanical layout makes the integration into constrained spaces quick and easy. The complete reading system fits into a maximum space: **1080 x 241 x 176 mm - 42.5 X 9.6 x 7 in** (cables, connection boxes, and readers included).

EASY TO MANTAIN

Thanks to the absence of moving parts, **STS400™** requires minimum maintenance. Detecting a reading problem is simple with the Green Spot feature: a flashing green light indicates the good read at the single device level, so providing an immediate feedback of the reading status without any additional software tools.

SIMPLE AND LEAN

The imaging approach provides a simple and regulated reader layout. This avoids articulated mounting patterns, typical of other reading technologies. Integration and compactness of the reading system are exclusive advantages of the imaging approach.

LONG-TERM RELIABILITY

No moving parts on board guarantee reliability and longer life-cycle. Imagers offer values of MTBF (Mean Time Between Failures) several times longer than readers working with moving parts such as rotating mirrors in laser scanners.

SIMPLY READY FOR THE FUTURE

Driven by physical constraints, upgrades of the tire labeling, or government mandates, manufacturers have to comply with the downsizing of the code heights or the introduction of 2D codes. This scenario represents the ideal condition for 2D imagers since they are compatible with these changing requirements.



Downsizing of bar-code height and reading 2D bar-codes are an issue for other reading technologies. Solutions based on 2D imagers are a solid investment, ensuring high read rates, durable life-cycle and adaptability to future requirements.



MATRIX410™

MATRIX 410™ ATS is the full reading head assembly, including illuminator and lens. It is pre-mounted and implements the proper optical setup and parameter configuration, just ready to be powered on and to read in line.

MATRIX 410™ is also supplied in assembly with the extra power illuminator (**MATRIX 410™ ATS-100**) and it represents the optimal solution for single head reading stations to be used in many tires manufacturing stages as Visual Inspection, Trimming or Testing.



ONE SOLUTION-ONE PART NO.

Each complete **STS400™** solution has a single order number. All the required accessories are included into the shipping package, cables, connectors, photocells. Only the power supply is apart.

STS400™ -00x AND -01x

STS400™ standard reading option is optimized for passenger light truck tires. The innovative blue illuminator - integrated into the standard cover - exploits the full lighting surface and it is extremely effective to support outstanding performance against speed, reading coverage and poor contrast code.

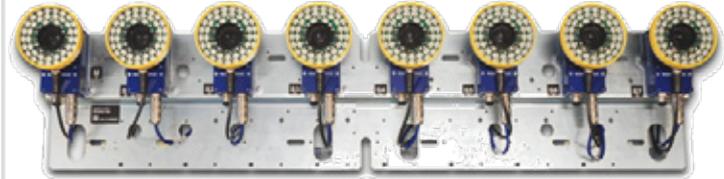


MODELS

STS400™ models are optimized for barcode resolution and scanning range: models are configured to read 0.25 mm and 0.33 mm passenger light trucks tires and also 0.35 mm for commercial vehicle tires.

STS400™ -10x

STS400™ long reading range is the perfect identification solution for industrial vehicle tires sorting, simply meeting the demanding requirements of large tires reading. Thanks to its ultra-power integrated illuminator, **STS400™** long reading range delivers an unprecedented reading coverage and definitively sets a new reference for automatic identification in the tire industry.



WEBSENTINEL-IMAGERS™

DESCRIPTION

Datalogic WebSentinel™-IMAGES is the supervisory software solution for monitoring operational activities of reading devices. This platform collects and archives all the crucial information related to functional status, including diagnostics, performance and working images.

Captured images enable an effective and precise analysis of processes and reading performance: thanks to the top level of data integrity and the intrinsic vividness, captured images represent an excellent forensic tool. The analysis of the captures related to unsuccessful reading attempts allow a quick and precise problem diagnosis and top reading performance.

WebSentinel™ integrates a user web-based interface for remote data representation and control: while the central application runs on a server machine, users can simply access data and control the operational functionalities through a web interface. A standard web browser, as Internet Explorer or Google Chrome, is all that is required to interact with the central unit, i.e. the WebSentinel Server. No additional software components are needed to be installed by users.

Captured images are automatically transferred from the readers to the WebSentinel-IMAGES™ database for archiving. Images are linked to all the working information of the specific object scanned; for instance, basic no-read information, as timestamp of the event or, can be now related to the set of working images captured during the reading attempt.

An advanced research tool permits to quickly locate events of interest and to access a practical image preview for a fast evaluation of an entire reading phase.



Current Alarms | Performance | **Event Search** | Select view tabs

Download images | Download All Images | Open storage | Export images

Unselect all | Maximize | Select view cols

page number: 1/1 total records: 8

51	7/22/11 11:26:50	6003654661	Good read	C
53	7/22/11 11:26:58	01000458	Good read	G
55	7/22/11 11:39:59	6003654661	Good read	C

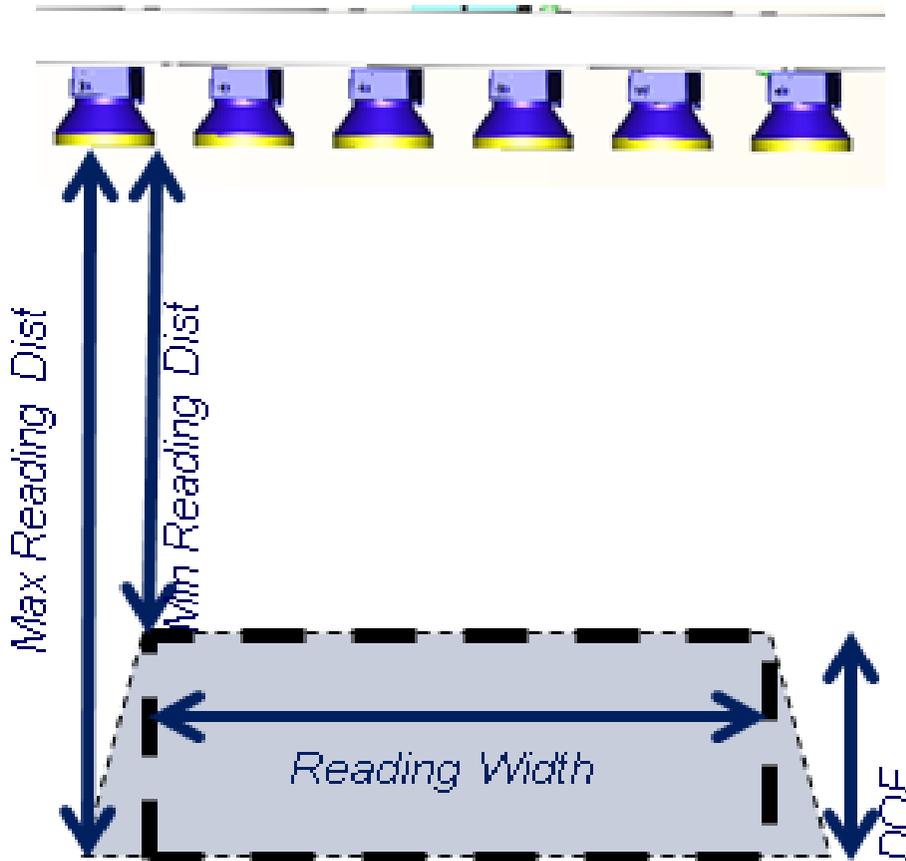


STS400™ -00x AND -01x PASSENGER LIGHT TRUCK TIRES

PN	Description	Linear Code Resolution	Reading Width	Dof	Min Reading Distance	Max Reading Distance
STS400™		mm (mils)	mm (in)	mm (in)	mm (in)	mm (in)
937401023	STS400-005 SOLUT TIRE SORT 5_HEAD ST RES	0,30 (12)	805 (31,7)	250 (9,8)	890 (35,0)	1140 (44,9)
937401024	STS400-006 SOLUT TIRE SORT 6_HEAD ST RES	0,30 (12)	945 (37,2)	250 (9,8)	890 (35,0)	1140 (44,9)
937401025	STS400-007 SOLUT TIRE SORT 7_HEAD ST RES	0,30 (12)	1085 (42,7)	250 (9,8)	890 (35,0)	1140 (44,9)
937401026	STS400-008 SOLUT TIRE SORT 8_HEAD ST RES	0,30 (12)	1225 (48,2)	250 (9,8)	890 (35,0)	1140 (44,9)
937401027	STS400-015 SOLUT TIRE SORT 5_HEAD HI RES	0,25 (10)	635 (25,0)	200 (7,9)	710 (28,0)	910 (35,8)
937401028	STS400-016 SOLUT TIRE SORT 6_HEAD HI RES	0,25 (10)	745 (29,3)	200 (7,9)	710 (28,0)	910 (35,8)
937401029	STS400-017 SOLUT TIRE SORT 7_HEAD HI RES	0,25 (10)	855 (33,7)	200 (7,9)	710 (28,0)	910 (35,8)
937401030	STS400-018 SOLUT TIRE SORT 8_HEAD HI RES	0,25 (10)	965 (38,0)	200 (7,9)	710 (28,0)	910 (35,8)
MATRIX 410™ Assembly for Tire Solutions						
937401035	Matrix 410 ATS-000 ASSEMBLY FOR STS400-00X	0,30 (12)	245 (9,6)	250 (9,8)	890 (35,0)	1140 (44,9)
937401036	Matrix 410 ATS-010 ASSEMBLY FOR STS400-01X	0,25 (10)	195 (7,7)	200 (7,9)	710 (28,0)	910 (35,8)

STS400™ -10x COMMERCIAL VEICHL E TIRES

PN	Description	Linear Code Resolution	Reading Width	Dof	Min Reading Distance	Max Reading Distance	Focus Distance
STS400™		mm (mils)	mm (in)	mm (in)	mm (in)	mm (in)	mm (in)
937401037	STS400-105 SOLUT TIRE 5_HEAD LONG RANGE	0.35 (14)	805 (31.7)	400 (15.7)	880 (34.6)	1280 (50.4)	1065 (41.9)
937401038	STS400-106 SOLUT TIRE 6_HEAD LONG RANGE	0.35 (14)	945 (37.2)	400 (15.7)	880 (34.6)	1280 (50.4)	1065 (41.9)
937401039	STS400-107 SOLUT TIRE 7_HEAD LONG RANGE	0.35 (14)	1085 (42.7)	400 (15.7)	880 (34.6)	1280 (50.4)	1065 (41.9)
937401040	STS400-108 SOLUT TIRE 8_HEAD LONG RANGE	0.35 (14)	1225 (48.2)	400 (15.7)	880 (34.6)	1280 (50.4)	1065 (41.9)
MATRIX 410™ Assembly for Tire Solutions							
937401041	MATRIX 410 ATS-100 ASSEMBLY FOR STS400-10X	0.35 (14)	245 (9.6)	400 (15.7)	880 (34.6)	1280 (50.4)	1065 (41.9)



EUROPE

DATALOGIC AUTOMATION

Headquarters

Via Lavino, 265
40050 Monte San Pietro
Bologna - Italy
Tel. +39 051/6765611
Fax +39 051/6759324
info.automation.it@datalogic.com

DATALOGIC AUTOMATION Iberia

Sucursal en España

C/ Samonta, 25 4ª Planta
08970 Sant Joan Despí
Barcelona - Spain
Tel. +34 (0)93/4772059
Fax +34 (0)93/4777272
info.automation.es@datalogic.com

DATALOGIC AUTOMATION AB

Höjrodergatan 21
21239 Malmö - Sweden
Tel. +46 (0)40/385000
Fax +46 (0)40/385001
info.automation.se@datalogic.com

DATALOGIC AUTOMATION Benelux

Newtonweg 3
4104 BK Culemborg - The Netherlands
Tel. +31 345/589489
Fax +31 345/511419
info.automation.nl@datalogic.com

DATALOGIC AUTOMATION S.r.l.

Niederlassung Central Europe

Carl-Zeiss Str. 31
73230 Kirchheim/Teck
Germany
Tel. +49 07021/509700
Fax +49 07021/5097029
info.automation.de@datalogic.com

DATALOGIC AUTOMATION UK

Datalogic House
Dunstable Road, Redbourn
Hertfordshire
England
AL3 7PR
Tel. +44 (0)1582/464900
Fax +44 (0)1582/464999
info.automation.uk@datalogic.com

DATALOGIC AUTOMATION S.r.l.

Succursale en France

Le Parc Technologique de Lyon
333 cours du 3ème Millénaire - Le Pôle
69800 Saint Priest - France
Tél. +33 (0)4/72476180
Fax +33 (0)4/72470721
info.automation.fr@datalogic.com

AMERICA

DATALOGIC AUTOMATION Inc

511 School House Road
Telford, PA 18969-1196 - United States
Tel. +1-800-BAR-CODE or +1-215-723-0981
Fax +1-215-721-5551
info.automation.us@datalogic.com

DATALOGIC AUTOMATION Inc

Machine Vision

6301 Old Shakopee Road
Minneapolis, MN 55438 - United States
Tel. +1-952-996-9500
Fax +1-952-996-9501
info.vision.ia@datalogic.com

ASIA

DATALOGIC AUTOMATION Asia Ltd

Floor 20, Room 2017, Building 2,
16 West Nan San Huan Road,
Fengtai District, Beijing, China
Tel: +86 (0)21-5836 6692
Fax: +86 (0)21-5836 6695
info.automation.cn@datalogic.com

DATALOGIC AUTOMATION Asia Ltd

1108B, Blocks 5, Huayangnian Meinian Plaza,
West Nanhai Road, Nanshan District,
Shenzhen, China
Tel: +86 (0)755-8629 6779
Fax: +86 (0)755-8628 1280
info.automation.cn@datalogic.com

DATALOGIC AUTOMATION Asia Ltd

Suite 1301, Hua Rong Plaza,
1289 South Pudong Road, Pudong District,
Shanghai 200120 - China
Tel: +86 (0)21-5836 6692
Fax: +86 (0)21-5836 6695
info.automation.cn@datalogic.com

DATALOGIC AUTOMATION Asia Ltd

Unit 1-3, 7/F, Yuen Long Trading Centre,
33 Wang Yip Street West, Yuen Long, NT.
Hong Kong
Tel +852 2785/3912
Fax +852 2785/3913
info.automation.hk@datalogic.com

IDEC DATALOGIC.CO. Ltd

10-40, Mikuni-Honmachi 1-Chome,
Yodogawa-ku, Osaka 532 0005, Japan
Tel. +81(6) 6398/3200
Fax +81 (6) 6398/3202
www.idljp.com

AUSTRALIA - NEW ZEALAND

DATALOGIC AUTOMATION Pty Ltd

Unit 130, 45 Gilby Road
Mt Waverley
Victoria, 3149 - Australia
Tel. +61 (0)3/95589299
Fax: +61 (0)3/95589233
info.automation.au@datalogic.com



www.datalogic.com

Rev. 03, 09/2012



9C511900E

Product and Company names and logos referenced may be either trademarks or registered trademarks of their respective companies. We reserve the right to make modifications and improvements.

 **DATALOGIC**
INDUSTRIAL AUTOMATION

