

High Performance 2D Imager

Transportation and Logistics Industry



THE INDUSTRY'S MOST POWERFUL 2D IMAGER

HIGH RESOLUTION

5 Megapixel CCD Image Sensor, capturing at the frame rate of 15 images/s with on- board image saving.

Laser aiming system for fast and precise reader positioning during installation.

Ultra-powerful lighting using 96 LEDs, providing superior performance on high speed packages and a large intrinsic DOF (depth-of-field) with a fixed focus lens.



Operator feedback is provided by a **Green Spot** projected on the scanned object to validate in real-time a successful reading result.



Accessing the Optical Lens for adjustment is extremely easy, no need to separate the reader from the illuminator.



MODELS AND ACCESSORIES

MODELS AND ACCESSORIES

MATRIX 450™		
DEADED DAGE		MATRIX (FO. OOO, OOO FMD CICE
READER BASE	937400024	MATRIX 450 800-030 5MP GIGE
LIGHTING	93A400032	LT-030 ULTRA POWER LT SUPERNARROW BLUE
	93A400033	LT-031 ULTRA POWER LT SUPERNARROW WHITE
	93A400034	LT-032 ULTRA POWER LT NARROW BLUE
LENS	93ACC0041	LNS-1216 16MM C-MOUNT LENS 5MP
	93ACC0034	LNS-1225 25MM C-MOUNT LENS 5MP
	93ACC0035	LNS-1235 35MM C-MOUNT LENS 5MP
	93ACC0036	LNS-1250 50MM C-MOUNT LENS 5MP
ACCESSORIES	93A050032	CAB-LD-002 LT DRIVER +PWR 0.2M
	93A050044	CAB-LD-102 LT DRIVER NO PWR 0.2M
	93A050033	CAB-LP-03 LIGHTING POWER 3M
	93A050037	CAB-LP-05 LIGHTING POWER 5M
	93A050034	CAB-GE01 M12-IP67 TO RJ45 1M
	93A050035	CAB-GE03 M12-IP67 TO RJ45 3M
	93A050036	CAB-GE05 M12-IP67 TO RJ45 5M
	93ACC0046	PG-120-K01 PWR SUPPLY KIT FOR M450 (EU)
	93ACC0047	PG-120-K02 PWR SUPPLY KIT FOR M450 (UK)
	93ACC0048	PG-120-K03 PWR SUPPLY KIT FOR M450 (US)
	93A050043	CAB-PG-0105 VDC PWR PG120-M450 5M
	93ACC1870	CAB-PG-0002 VDC PWR PG120-IDNET 2M
	93ACC0086	EMK-MTX-380 EXT.MIRROR (380MM)
	93A100027	DATALOGIC WEBSENTINEL-IMAGES-005 5 ARRAYS
	93A100028	DATALOGIC WEBSENTINEL-IMAGES-064 64 ARRAYS
	93A100029	DATALOGIC WEBSENTINEL-IMAGES-256 256 ARRAYS
	93A100027	DATALOGIC WEBSENTINEL-IMAGES-005 5 ARRAYS
	55/110002/	S. II. LOGIC WEDSELVIIIVEE IIVII GES 003 371111/113



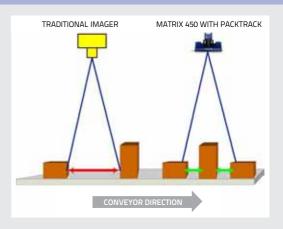
MATRIX 450™ - TRANSPORTATION AND LOGISTIC INDUSTRY

SMALL GAP & HIGH THROUGTHPUT SORTATION

PackTrack, patent pending software algorithms, solve sorting applications for conveyors where carton, parcels, or packages are close to one another, i.e. the gap between cartons is small and the code position is random throughout the scanning area.

With PackTrack, the Matrix 450[™] acquires **images of an object during the entire transit** through the reading zone, **under conditions that are generally not managed by imagers.**

PackTrack results in multiple acquisitions of the same bar code resulting in increased reading performance.



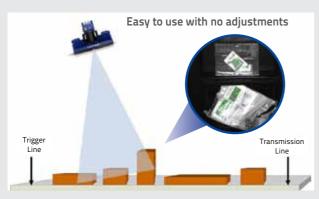
PackTrack increases the ease of installation and eliminates the need of fine tuning imager synchronization and integration into the conveyor and control systems:











- 1.Image acquisition is free running, no need for timing control.
- 2.Trigger (TR) position and transmission line (TX) position are configurable, based on time or encoders.
- 3. Multiple objects are managed simultaneously.

B Miller Schaller (1)

4. PackTrack works on any Matrix arrayed configuration, for multiple heads stations and multiple side reading.

MATRIX DECODES IMPOSSIBLE TO READ CODES

Every no read has a cost for manual handling. The matrix 450™ provides opertional cost savings by reading the most challenging codes.

Torn



Folded



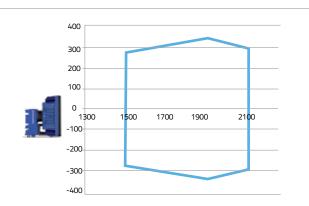
LOGISTICS SORTING FOR MEDIUM SIZED PARCELS OR SMALLS & FLYERS



HUGE DOF AT HIGH SPEEDS

Code: 1D **0.38 mm** (15 mils), Speed: up to **2.8 m/s** (551 ft/min) **Real Time DOF: 600 mm (24 in)**

With no focus change or object height measurement!

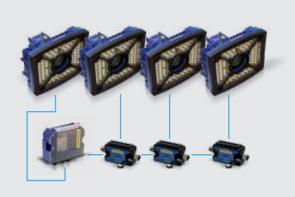


OPTIMAL SYSTEM COMPOSITION FOR ANY APPLICATION

Datalogic ID-NET clustering allows a simple modular composition of multi-reader stations.

PackTrack is supported in multi-head configurations and ID-NET guarantees perfect reader synchronization!

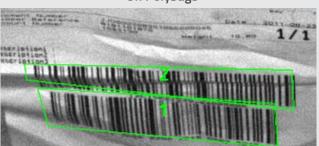
Contrade State 4 III.



Under Plastic



On Polybags

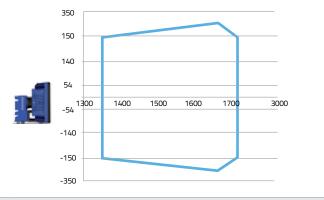


LOGISTIC SORTING IN RETAIL DISTRIBUTION AND E-COMMERCE



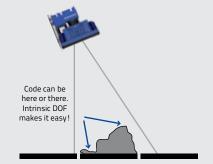
PERFECT READING CAPABILITIES FOR E-COMMERCE APPLICATIONS

- Code: 1D 0.30 mm (12 mils)
- SPEED: up to 2.3 m/s (453 ft./min)
- Real time DOF: 350 mm (14 in)



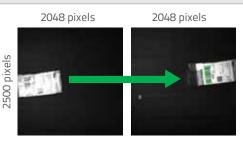
LEAN AND EASY INTEGRATION ACROSS THE CONVEYOR SYSTEM

- Matrix reading is extremely robust for irregularly shaped objects like bags or totes. With real-time DOF, the Matrix reads codes on any location of irregularly shaped objects.
- High performance static lensing provides continuous DOF. A superior technology to dynamic focus adjustment systems.
- Reduce integration cost and complexity by eliminating object height barriers or devices.



IMMUNE FROM LIGHTING REFLECTIONS, PROVIDING EXCELLENT READING PERFOMANCE FOR BAR CODES UNDER PLASTIC OR ON SHINY MATERIALS

Large image area coverage providing multiple captures of any single barcode from different perspectives.



SIMPLE READER INTEGRATION OVER TRAY CONVEYORS WITH 2D PACKTRACK SOFTWARE

Image capture can be taken with no synchronization with respect to the trays in transit. With PackTrack each single picture can include more than one tray and still provide precision output for sortation.





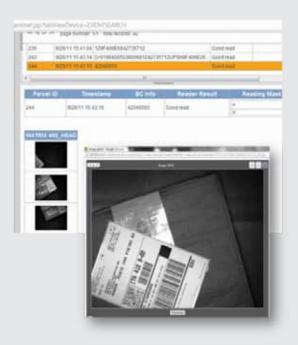
IMAGE MANAGEMENT

IMAGE MANAGEMENT FOR OPERATIONAL ANALYSIS

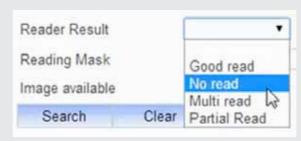
MATRIX 450™ OFFERS SEVERAL OPTIONS FOR IMAGE MANAGEMENT

Real time image visualization on a web page:



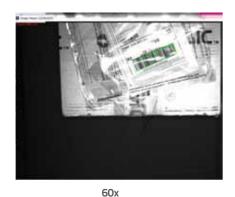


Datalogic WebSentinel™-IMAGESthe web based supervisory software to archive No Read images for later review.



On board image storage:

ひかし はどうしばん



full frame images



1:4 rescaled images





944x 1:16 rescaled images

HEADQUARTERS

Datalogic Automation Srl

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

BRANCHES AND SALES OFFICES

EUROPE BENELUX

Datalogic Automation Benelux

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

FRANCE

Datalogic Automation Srl

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

GERMANY

Datalogic Automation Srl

Niederlassung Central Europe Gottlieb-Stoll-Straße 1, 73271 Holzmaden Tel. +49 7023 7453-100 Fax +49 7023 7453-129 info.automation.de@datalogic.com

ITALY

Datalogic Automation Srl

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

Datalogic Automation Srl

Laser Marking

Via Le Gorrey, 10 11020, Donnas - Aosta Tel. +39-0125-8128201 Fax +39-0125-8128401 info.automation.it@datalogic.com Via Dell'Industria 15, 21018 Sesto Calende - Varese Tel. +39-03319180601 Fax +39-03319180801 info.automation.it@datalogic.com

Datalogic Automation Iberia

Sucursal en España C/Samontà, 21 Planta baja, Local 0 08970 Sant Joan Despí - Barcelona Tel. +34 (0)93/4772059 Fax +34 (0)93/4777272 info.automation.es@datalogic.com

NORDIC

Datalogic Automation AB

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

UNITED KINGDOM

Datalogic Automation UK

Datalogic House Dunstable Road, Redbourn - Herfordshire AL3 7PR Tel. +44 (0) 1582 791750 Fax +44 (0) 1582 791769 info.automation.uk@datalogic.com

TURKEY

Datalogic ADC Turkey

No:16 Neo Vista Sitesi C1 Blok D.7 Gokturk/Kemerburgaz 34077 - Istanbul, Turkey info.adc.tr@datalogic.com

NORTH 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

5775 W Old Shakopee Rd STE 160, Bloomington, MN 55437 United States Tel. +1-952-996-9500 Fax +1-952-996-9501 info.automation.us@datalogic.com

SOUTH AMERICA

Datalogic Brazil

Rua Arandu, 281 CJ 32 Broklin Novo, 04562-030 Sao Paulo, Brazil Tel. +55 11 5507 7721 orders.ia.int@datalogic.com

APAC

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

CHINA

Datalogic Automation Asia

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

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

Room 1104B, 5#Tower, Fantasta MIC Plaza, West Nanhai Road, Nanshan District, 518054 Shenzhen, Guangdong, China Tel: +86 (0)755-8629 6779 Fax: +86 (0)755-8628 1280 info.automation.cn@datalogic.com

1202, Excellence Build, 128 Yanji Road, Shibei District, Qingdao, China Tel: +86 532 55787889 Fax:+86 532 55787890

JAPAN

Idec Datalogic Co. Ltd

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

Rev. 02, 07/2014





Datalogic-Produkte erhalten Sie bei



Ilseder Hütte 10, 31241 Ilsede Tel.: 05172 1290-0, Fax: 05172 1290-12 E-Mail: info@schwalenberg.com Internet: www.schwalenberg.com