# RODUC aser Marking roducts ODATALOGIC

# LASER MARKING PRODUCTS

# COMPREHENSIVE PRODUCT RANGE COMBINED WITH EXCELLENT LASER MARKING MANUFACTURING EXPERTISE

Over 20 years experience in the production of industrial laser sources has enabled Datalogic Laser Marking to create the most comprehensive product portfolio in the marketplace by offering solutions throughout a wide range of applications.

Laser Marking products provide value added marking solutions for the Automotive, Aerospace, Electronics & Semiconductor, Plastic & Polymer Processing, Watches & Jewelry, Metal Tooling, Medical Device and Packaging industries.

Laser Marking products are offered in the three main laser technologies: Fiber, DPSS and CO2 and cover a wide range of applications on almost any material, fulfilling every customer need for permanent marking.

Powerful, best-in-class control software operates with any model configurations and laser technologies: a unique HMI control platform, easy to use and install, with enhanced customization capabilities.

### LASER MARKING TECHNOLOGIES

# DPSS LASER MARKER VLASE SERIES & ULYXE

The long history of market leading DPSSL technologies has enabled Datalogic to create the most comprehensive product portfolio in the marketplace by offering solutions with a wide variety of applications in multiple wavelengths.

DLA product portfolio offers industrial grade solutions for Infrared Green and UV in a wide power range, and an innovative ultra-compact, all-in-one laser marker for level-entry application.

#### DPSSL key features:

- Best-in-class laser peak power
- Three different wavelengths for best result even on highly reflective or high stability materials
- Excellent beam quality and marking accuracy even on thermal sensitive materials

### FIBER LASER MARKER AREX SERIES

Proprietary technology and design for the fastest growing laser technology in the segment of the laser marking

Robust and reliable, efficient and cost effective, fiber laser technology is the first choice for metal marking and engraving.

Long pulsewidth (100ns) ensure great thermal effect on metal materials, for high efficiency metal annealing and engraving.

### Fiber Laser key features:

- Long lifeftime: truly all-solid-state (don't go out of alignment, do not containing any free-space optics) efficient without any routing maintenance
- Compact marking head for easy integration and installation
- High process stability and repeatability
- Zero bleed-through power
- Excellent on metal and plastic surfaces

### CO<sub>2</sub> LASER MARKER EOX SERIES

CO2 laser technology is still the best solution to provide permanent laser marking for industrial traceability and coding on paper, carton, organic materials, coated/painted materials and plastic.

Long wavelength (10.600nm) ensure good results even on glass, rubber, food, wood and many other materials.

#### CO2 Laser key features:

- Excellent on paper, cardboard, wood and plastics
- Marking on the fly compatible with variable speed and start-stop systems
- Suitable for coding from medium to high throughput production lines

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### **ONE.RACK MARKING CONTROLLER**

Laser marker setup and operation are made easy with the Embedded Marker Controller platform (EMC) and LIGHTER Suite. One single rack, 19 inch, 2,5 U, offer standardized design and 1/O connections to enable integrators to freely choose between DLA's three main laser technology (DPSSL, FIBER, CO2) without any connections or wiring hassle.

'ONE.RACK" design drastically simplifies laser integration machine design All you need for your marking application is now included: 100-240 VAC power supply , Embedded Laser controller with 4 independent axis controls (X,Y,Z, Rotating axis) to implement multi-layers and rotating marking, dedicated encoder input is applied for Marking On Fly (MOF) even in accelerated and variable speed conditions. All the units are equipped with Teamviewer host to ensure real time remote support.





# LASER MARKING SOFTWARE

# LIGHTER SUITE, THE LASER MARKING SOFTWARE FOR ALL DATALOGIC LASER MARKING PRODUCTS



### LIGHTER Laser Marking

Software Suite allows OEMs and Machine builders to develop a complete and cost effective Laser Marking Station, based on embedded hardware and software resources (STAND ALONE mode), or advanced Laser Marking solutions able to control a complete machine over a simple Ethernet connection with a supervisor computer (MASTER-SLAVE mode).

The **LIGHTER** Suite is the unique marking Software Suite for all DLA Laser Marking Products.

Due to the innovative software functionality and concepts, the **LIGHTER** Suite is an important step ahead in the laser marking market segment and setting a new standard in terms of ease of integration and ease of use.

**LIGHTER** Suite combines advanced editing features with laser setup, laser controls and diagnostics resulting in a complete, flexible and easy to use laser marking control system.

#### Advanced Editing and Formatting Function

#### \*Advanced Editing Function

- Graphical Layout, to easy create and edit any kind of vectorial shapes, texts, labels, logos, text, with an extensive coding library for 1D and 2D codes.
- Contextual property browser for fast and easy setting of all parameters
- Bitmap and vector import and export formats (bmp, plt, dxf, ai, svg, ...)
- Filling and hatching of objects and pattern structures with various styles.
- Grid array capabilities for IC marking
- Gray tones marking

#### Automation Capability

- 4 independent Mechanical Axis: X, Y, Z and R
- User controlled general purpose Inputs and Outputs
- Build-in-MOF with MOF Wizard for easy and fast set-up.
- Sequential programming through Sequence editor: different control objects to create automation jobs with few click.
- STAND-ALONE and MASTER-SLAVE mode

LIGHTER Suite allows OEMs and Machine builders to develop a complete, cost effective, Laser Marking Station, based on embedded hardware and software resources, (STAND ALONE mode) or to design an advanced Laser Marking solutions able to control a complete machinery over a simple Ethernet connection with supervisor computer (MASTER-SLAVE mode).

- Full control both in local and remote mode via Laser Editor GUI:
- Local/Remote laser configuration included MOF Wizard
- Local/Remote laser diagnostic
- Local/Remote I/O & axis control
- Local/Remote Automation Project control
- Local/Remote Active X

LIGHTER Suite support script capability, easily integrated with legacy systems through a wide range of combinations of transmission media, protocols and architectures, but also to create full automatic or customized marking process.

The built-in IDE (Integrated Development Environment) based on JavaScript provides users a full set of tools to be used for extremely flexible customization, for examples:

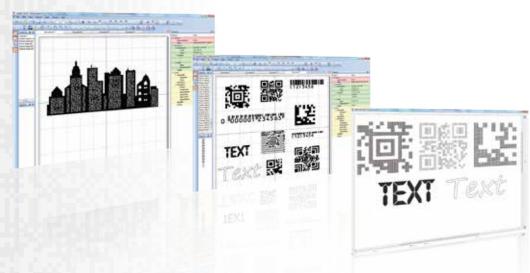
- -Control the marking process
- -Fully customize your layout,
- -Interact with users and with dedicated and custom GUI
- -Automate procedures and update the layout's contents at runtime

IP ActiveX support allows OEM integrators and end-users to create remote customized Applications and User Interfaces via Ethernet.

LIGHTER Suite is included in the Standard Package of DLA Laser Marking products according the following product families:

- AREX
- EOX
- VLASE Series
- ULYXE
- UNIQ

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# **VLASE SERIES**

The new VLASE Series combine the long production experience of high performance and quality DPSS laser sources with the flexibility and performances of EMC controller.

The VLASE Series markers use **the state-of-the-art End Pumped Coupling Technology**, a cutting edge solution for diode pumped solid state laser sources

The new VLASE Series is now based on the 'one.rack" controller, and offers the sames design, concept, I/O interface and features as AREX series, dramatically reducing integration complexity.

All you need is included: 100-240 VAC power supply, EMC controller, with Master-Slave and Stand-Alone capability.

The VLASE Series offers **lasers with excellent beam quality, high peak power and short pulse width** to ensure high marking quality results even in difficult application on high reflectivity or heat sensitive material, and in case of high stability plastic.

**Designed for very demanding 24/7 processes**, VLASE Series offers unparalleled performance and represents the ideal solution for both direct part marking and label marking in every market segment including automotive, electronics, packaging, as well as in medical surgical tools marking and other applications

# **VLASE IR**

The VLASE IR is a DPSS air-cooled laser marking source @1064nm, available in 10, 15 and 20W. Excellent beam quality, necessary for marking a broad range of materials, is one of the leading characteristics of the VLASE IR laser sources.

### APPLICATIONS

- Metal marking: steel, stainless steel, iron titanium, carbide, brass, (bare, coated, anodized)
- Color enhanced plastic
- Thermo plastic (ABS, PP, PES, PET, PPMA)



# **VLASE UV**

The VLASE UV source exploits the extensive experience and success of the DPSS family and is based on the optomechanical architecture of Third Harmonic Generation (THG). The extracavity technology allows high efficiency conversion of the LBO nonlinear crystal and compactness of the laser source. The VLASE UV wavelength produces less mechanical distortion and less heat affected zones (HAZ) in comparison with longer laser wavelengths. The extreme performance of this laser source makes it ideal

for the demanding marking and material process applications, such as glass and nondoped plastics in automotive, healthcare, aeronautic, solar & electronics among many other applications.

### APPLICATIONS

- High stability, 'non-doped" plastic marking
- High Density Polyethylene (HDPE) marking
- Medical & surgical plastic marking
- Silicon scribing
- Ceramic & glass marking

### **VLASE GREEN**

The VLASE GREEN 4W and 10W laser sources and markers operate on the VL-IR platform and use Second Harmonic Generation (SHG) in an intracavity architecture, which maximizes LBO nonlinear crystal conversion efficiency.

The VLASE GREEN wavelength results in a lower heat affected zone (HAZ) compared with an infrared laser.

This laser source offers significant advantages in marking applications with materials such as plastics that do not interact with infrared wavelengths, as well as with semi-conductor such as silicon. Superior absorption efficient in semi-conductor material used in solar cells makes this source ideal for photovoltaic applications.

### APPLICATIONS

• High stability, 'non-doped" plastic marking

- Wafer & semiconductor marking
- WLC (Wafer-Level Package), memory cards, ICs marking
- Silicon scribing
- Glass epoxy marking
- Copper marking

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		TECHNICAL DATA			
		VLASE IR 10	VLASE IR 20	VLASE GR 10	VLASE UV 3
Wavelenght	[nm]	1064	1064	532	355
Nominal Power	[W]	10	20	10	3
Repetition Rate Range	[KHz]	10 <del>*</del> 100	20 • 100	20 • 100	20 <del>*</del> 80
Pulse Width	[ns]	15@10KHz	8@20KHz	10@25KHz	8@25KHz
Max Pulse Energy	[mJ]	0.48@10kHz	0.55@20KHz	0.31@20KHz	0.12@25KHz
Peak power	[kW]	32@10KHz	65@20KHz	28@20KHz	14@25KHz
Marking capabilities		Standing, Rotary axis, On the fly (marking in motion)			
Integration		Up to 4 mechanical axis driving capabilities (stepper motor) Up to 10 digital inputs and 10 digital output fully programmable dedicated connectors Encoder and Photocell			
Interface		Ethernet, RS 232, USB			
Optical Fiber		Detachable – 3 meters standard- 5 meters OPZ			
Aiming Beam	[nm]	Semiconductor Laser - 630 – 670			
Power Supply		100- 240 VAC 50/60Hz – 600 W max			
Cooling System		Air cooled			
Temperature Range	[°C]	5° to 40° (41°F to 104°F)			

# UniQ<sup>™</sup> & ULYXE SERIES

#### UniQ<sup>™</sup> - Compact , Powerful, integrated: unique!

UniQ laser marker is a revolutionary and innovative approach to fiber laser marking:

For the first time on the market, no external controller or power supply is needed, no fiber delivery constrains, no fiber length or bending radius limitations.

An advanced mechanical design and high-quality components provide an **IP54 degree of protection** for harsh environment and industrial application.

**UniQ** laser marker works seamless with Datalogic's Lighter Suite, providing a user-friendly, powerful interface and complete software tools, and is fully compatible with other DLA's laser control interface.

**UniQ** marker provided an extremely compact and flexible solution for manufacturing industries where the ease of use, dimensions and price/power ratio are the most important buying criteria.

Great €/W ration, long service intervals, ease of maintenance and improved safety features keep overall operating and installation costs lower than any other laser marking system.

### APPLICATIONS

- DPM (Direct part marking) on Plastic and metal materials in automotive, electronics and healthcare industries
- Laser Annealing on high precision metal components



Ulyxe family is the most compact and versatile Solid State Laser Marker on the market (only 42cm, 16,5"). Thanks to its advanced technolgy **the Ulyxe family provides the best price to performance ratio in the laser marking world**. As a result of its cost-effectiveness and competitive positioning, the Ulyxe family is the first choice in marking solutions even when compared with traditional marking techniques. With its extreme compactness, this laser family represents the ideal laser marking solution both in standalone configurations as well as OEM applications.

The air cooled laser sources offer an ultra-compact design and includes the scanning head, digital control and monitoring functions. The outside cover on the units are equipped with a specifically designed high-tech case, available in different materials (polyurethane and metal) depending on different application requirements. The operator can easily interact and monitor important laser statuses and functions with a user-friendly LCD touch screen control display.

The Ulyxe compact laser family is available in two different control configurations (USB embedded controller and IMARk control kit) and in two case styles, bicolors thermoplastic or stainless steel case.

# **USB EMBEDDED CONTROLLER**

With an embedded DPS controller, the Ulyxe combines compact dimensions with user-friendly interface (LIGHTER Suite) installation and set-up. Laser marking has never been easier. This configuration is available for both polycarbonate or metal cases.

### APPLICATIONS

- Plastic and metal marking in automotive, electronics and healthcare industries
- Label Marking
- DPM (Direct Part Marking)
- Tool Marking
- Marking on surgical tools/devices

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		UNIQ	ULYXE
Technology		Fiber	Solid State
Wavelenght	[nm]	1060-1070nm	1064nm
Nominal power	[W]	15W	6W
Repetition Rate range	kHz	15-100 kHz	15-200 kHz
Pulse Width	[ns]	120 ns	20-25 ns@20kHz
Max Pulse Energy	[mJ]	0.75mJ	300µJ@15 kHz
Aiming & Focus Beam	[nm]	Semiconductor Laser 630 – 670	Semiconductor Laser - 630 – 670
Connectivity		USB, RS232, Ethernet, TCP-IP	USB
Cooling System		Air cooled	Air cooled
Temperature Range	[°C]	Operative 5° to 40°	Operative 10° to 35°
Dimensions		Rack: 497,3 x 150 x 183,5 mm <sup>3</sup> Weight:10,2 Kg	426x154x170 mm
Power Supply		100/240 VAC – 50/60 Hz – 200 W (MAX)	24VDC/13A
IP protection level		IP54	IP21

# **AREX SERIES**

The **AREX Series** is a multi-functional and all-inclusive line of fiber laser markers dedicated to direct part marking in the Automotive, Electronics, and precision mechanics industry.

Thanks to ultra compact scan-head, the flexible marking platform and the advanced software features, AREX laser marker, provides a flexible, reliable, cost effective solution for permanent and indelible high quality marking directly on your production line. AREX Series includes 5 different fiber laser sources, 10W, 20W, 30W, 50W and the new 20W M.O.P.A. on one single unified platform.

AREX design and configuration dramatically simplifies and speeds up machine design and system integration, LIGHTER Suite, thanks to its intuitive and easy-to-learn interface, simplifies the development of complete and cost effective Laser Marking Station for OEM and Machine builders.

# MOPA

M.O.P.A. (Master Oscillator Power Amplifier) fiber laser technology offers an higher level of parametric flexibility thanks to the capability to adapt laser pulse duration on a wider range of repetition frequency.

The capability to adjust pulse width allows to minimize the material's heat affected zone (HAZ) and to avoid unwanted thermal effect induced in sensitive materials.

High pulse-to-pulse stability ensure high contrast stability even on critical substrate.



### APPLICATIONS

- High contrast DPM (Direct Part Marking) on plastic and
- metals in automotive, electronics and healthcare industries
  - Laser Engraving on metal
  - Annealing & color marking on metals components in aerospace precision mechanic industry
  - Label Replacement
  - High quality Branding and texturing on electronics devices

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Nominal power       [W]       10       20       30       50       >20         Repetition rate       kHz       20 ÷ 100       30 ÷ 100       50 ÷ 100       20 ÷ 500       Repetition rate         Pulsewidth (Typ)       [ns]       (ns]       FIXED: 100       Adj: 4, 8, 12, 30, 50, 100, 100, 100       Adj: 4, 8, 12, 30, 50, 100, 100, 100, 100, 100, 100, 100			TECHNICAL DATA				
Laser source       M.O.P.A. Fiber Laser       M.O.P.A. Fiber Laser         Nominal power       [W]       10       20       30       50       >20         Repetition rate       kHz       20 · 100       30 · 100       50 · 100       20 · 500       Repetition rate         Pulsewidth (Typ)       [ns]       20 · 100       30 · 100       50 · 100       20 · 500       Repetition rate         Pulsewidth (Typ)       [ns]       0,5       1,0       1,0       0,6       0,6         Pulse energy (max)       [m]       0,5       1,0       1,0       1,0       0,6         Peak power (max)       [kW]       5       10       11       12       12         Fiber lenght       [m]       0,5       Static, Rotary axis, On the fly (marking in motion)       11       12       12         Integration        Static, Rotary axis, On the fly (marking in motion)       Up to 4 mechanical axis driving capabilities (step motors)       Up to 10 digital inputs and 10 digital output fully programmable       11       12			AREX 10	AREX 20	AREX 30	AREX 50	AREX 20MW
Nominal power       [W]       10       20       30       50       >20         Repetition rate       kHz       20 * 100       30 * 100       50 * 100       20 * 500       Repetition rate         Pulsewidth (Typ)       [ns]	Wavelength	[nm]	1060-1080				
Repetition rate       kHz       20 * 100       30 * 100       50 * 100       20 * 500       Repetition rate         Pulsewidth (Typ)       [ns]	Laser source		Pulsed Fiber Laser M.O.P.A. Fiber Laser			M.O.P.A. Fiber Laser	
Pulsewidth (Typ)       [ns]       FIXED: 10       Adj: 4, 8, 12, 30, 50, 100,         Pulse energy (max)       [m]       0,5       1,0       1,0       0,6         Peak power (max)       [kW]       5       10       11       12         Fiber lenght       [m]       0       5       3       12       12         Marking capabilities       Static, Rotary axis, On the fly (marking motion)       11       12       12         Integration       Up to 4 mechanical axis driving capabilities (step motors)       Up to 10 digital inputs and 10 digital output fully programmable       11       12	Nominal power	[W]	10	20	30	50	>20
Pulse energy (max)       [m]       0,5       1,0       1,0       1,0       0,6         Peak power (max)       [kW]       5       10       11       12         Fiber lenght       [m]       0.5       3       12       12         Marking capabilities       Static, Rotary axis, On the fly (marking in motion)       5       10       11       12         Integration       Up to 4 mechanical axis driving capabilities (step motors)       Up to 10 digital inputs and 10 digital output fully programmable       11       12	Repetition rate	kHz	20 <del>*</del> 100	30 * 100	50 <del>*</del> 100	20 <del>*</del> 500	Repetition rate
Peak power (max)   [kW]   5   10   11   12     Fiber lenght   [m]   3   3   3     Marking capabilities   Static, Rotary axis, On the fly (marking in motion)   Up to 4 mechanical axis driving capabilities (step motors)   5     Integration   Up to 10 digital inputs and 10 digital output fully programmable   12	Pulsewidth (Typ)	[ns]	FIXED: 100 Ad			Adj: 4, 8, 12, 30, 50, 100, 200, 250	
Fiber lenght   [m]   3     Marking capabilities   Static, Rotary axis, On the fly (marking in motion)     Up to 4 mechanical axis driving capabilities (step motors)     Integration   Up to 10 digital inputs and 10 digital output fully programmable	Pulse energy (max)	[mJ]	0,5	1,0	1,0	1,0	0,6
Marking capabilities   Static, Rotary axis, On the fly (marking in motion)     Up to 4 mechanical axis driving capabilities (step motors)     Integration   Up to 10 digital inputs and 10 digital output fully programmable	Peak power (max)	[kW]	5 10 11				12
Up to 4 mechanical axis driving capabilities (step motors) Integration Up to 10 digital inputs and 10 digital output fully programmable	Fiber lenght	[m]	3				
Integration Up to 10 digital inputs and 10 digital output fully programmable	Marking capabilities		Static, Rotary axis, On the fly (marking in motion)				
dedicated connectors Encoder and Photocen	Integration						
Aiming & Focus Beam [nm] Semiconductor laser @ 635	Aiming & Focus Beam	[nm]	Semiconductor laser @ 635				
Protection rating Head: IP54; Controller: IP21	Protection rating		Head: IP54; Controller: IP21				
Cooling Air cooled	Cooling		Air cooled				
Power Supply 100/240 VAC – 50/60 Hz – 400 W (MAX)	Power Supply		100/240 VAC – 50/60 Hz – 400 W (MAX)				

# EOX SERIES

**EOX** is the **CO2 Laser family for laser coding and marking** applications. The EOX family offers high quality permanent marking on a wide range of materials including cardboard, ceramic, wood, plastics and painted or anodized metal. Combining excellent laser beam quality and advanced control unit, the EOX family is suitable for accurate industrial traceability as well as high productivity coding applications.

CO2 laser family is available in 2 power levels, **10W and 30W**, with the same marking platform but with different mechanical configurations. 10W versions are offered in an **ALL-IN-ONE case** with very compact dimensions. 30W versions combine of a **compact marking head** with a control rack equipped with power supply and control unit.

Both 10W and 30W versions provide **axis control and an encoder port for Marking On the Fly (MOF)**, which is typically required for coding applications. Advanced MOF features offers complete synchronization between marking head and object movement even in accelerated or start-s top movement conditions. **MOF increases production lines throughput with linear speeds up to 75mt/min and 12.000 pcs/hour**. A CO2 marking system is very attractive for low cost of operation coding applications, due to no maintenance and no requirement for expensive consumables.

The EOX meets flexibility requirements with extended marking area up to 140x140mm (focal lens dependent). Reliable and safe, the EOX family provides a clean technology with short return of investment and minimal maintenance.





### APPLICATIONS

 Coding and marking applications in food, pharmaceutical, and electronics industries

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TECHNICAL DATA				
		EOX 10 EOX 30		
Wavelenght	[µm]	10,6	10,6	
Nominal power	[W]	10	30	
Aiming & Focus Beam	[nm]	Semiconductor Laser - 630 – 670		
Cooling System		Air cooled		
Temperature Range	[°C]	Operative 15° to 35°		
Head dimensions	[mm]	180x185x634	180x185x634	
Rack dimensions	[mm]	-	437x94x333	
Power Supply		100/240 VAC - 50/60 Hz		

### **HEADQUARTERS**

### **Datalogic Automation Srl**

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

### GERMANY

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

### ITALY

### Datalogic Automation Italy

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

#### Via Taormina 1 20093 – Cologno Monzese (MI) Italy Tel. +39 02 25151211 info.automation.it@datalogic.com

Via Le Gorrey, 10 11020, Donnas - Aosta Tel. +39-0125-8128201 info.automation.it@datalogic.com

## SPAIN

#### Datalogic Automation Iberia Sucursal en España

C/ Frederic Mompou 4 esc A, 4° puerta 3° 08960 Sant Just Desvern - Barcelona Tel. +34 (0)93/4772059

### NORDIC

### **Datalogic Automation AB**

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

### UNITED KINGDOM

**Datalogic Automation UK** 

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

### TURKEY

Datalogic ADC Turkey Merkezi Italya Istanbul Merkez Şubesi Süleyman Seba Cad. No:48 BJK Plaza A. Blok Kat:4 D.44 34357 - Istanbul - Turkey Tel. +90 212 396 1550 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 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 info.automation.us@datalogic.com

### SOUTH AMERICA

### Datalogic Brazil

Avenida Olivio Roncoletta, 465 Bairro Vila Hortolandia Jundiaì (SP), Brazil Tel. +55 11 29232600 info.automation.br@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 info.automation.au@datalogic.com

### **CHINA**

### **Datalogic Automation** Asia

2nd Floor,10 Building, Dayuan Industrial Zone, No.1,Pingshan 1st Road, Liuxuan Blvd.Xili, Nanshan District, 518054,Shenzhen,China Tel:+86 (0)755-8629 6779 info.automation.cn@datalogic.com

R206, 2F, No. 1288 Longdong Avenue, Pudong New Area, Shanghai,201203 Tel: +86 (0)21-5836 6692 info.automation.cn@datalogic.com

Floor 20, Room 2019, Building 2, 16 West Nan San Huan Road Fengtai District, Beijing Tel: +86 (0)10-8757 6375 info.automation.cn@datalogic.com

1202, Excellence Build, 128 Yanji Road, Shibei District, Qingdao, China Tel: +86 (0)532 55787889

### JAPAN

Idec Auto-Id Solutions Corporation 8-10, Shioe 5-chome, Amagasaki Hyogo, Japan 661-0976 Tel. +81-6-7711-8880 www.idec.com





All laser sources described in this product guide are Class 4 laser sources. Laser interaction with organic or inorganic material can cause TOXIC FUMES/PARTICLES. The OEM laser components described in this product guide is for sale solely to qualified manufacturers, who shall provide interlocks, indicators and other appropriate safety features in full compliance with applicable national and local regulations.



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