

**DUAL-HEAD LASER MARKING SYSTEMS** 

FIBER LASER MARKING SYSTEMS

**ULTRAVIOLET** LASER MARKING SYSTEMS

**CO2** LASER MARKING SYSTEMS

**GREEN** LASER MARKING SYSTEMS

**VANADATE** LASER MARKING SYSTEMS

**CLASS 1 LASER ENCLOSURES** 

**TELESIS** 



Telesis pioneered the use of fiber laser marking technology and has introduced many new products to market.



Telesis lasers feature superior beam quality that allows them to outperform competitors' higher-powered systems and perform ultra deep engraving.

# DUAL-HEAD LASER MARKING SYSTEM

Patented dual-head technology reduces integration time, cost of ownership, and part handling while increasing throughput.



The industry-leading Merlin® Visual Design Laser Software simplifies complex string management, can easily control your entire marking operation, and supports multi-step process flows.

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### **Laser Marker Overview**

### **Dual-Head**

The innovative, patented Telesis dual-head laser system is perfectly suited for advanced applications that require rapid processing. The multi-head design of this laser offers the **unique** ability to control two laser markers with the same **controller**, reducing overall footprint and lowering the cost of operation. It is the industry's **only fiber laser** system of its kind to be entirely air cooled and powered from a singlephase power outlet.

### **Fiber**



The Telesis Fiber laser marking system is the most versatile marking technology due to its adaptability, minimal maintenance, and the total elimination of consumables from the marking process. They are most used in metal and plastic processing industries for precise and efficient direct marking of parts and products. From automotive manufacturing through medical and security technology to electronics, Telesis Fiber delivers.



### **Ultraviolet**



The 355 nm UV laser wavelength is versatile in marking a wide range of materials and perfect for "cold marking" applications where heataffected zones are not allowed—the machine is great for marking plastics and silicon materials without additives and can mark glass with a reduced risk of micro**fracture.** The very small high-quality beam spot makes precision micromarking with extremely **sharp resolution** possible.



### Green



The Telesis EV4GDS is a fiber-coupled, diodepumped, solid-state (DPSS) green wavelength system. The laser beam characteristics are optimized for applications that require high beam quality and **stability.** The EV4GDS offers extra power and speed—the ideal choice for laser marking, scribing, and trimming. The robust design of the Telesis EV4GDS enables operation in an industrial environment where shock, vibration, and dust are a concern.



### **Vanadate**



E-Series diode-pumped YAG and vanadate laser markers offer improved beam quality, increased depth of focus, and higher peak powers compared to fiber lasers—for fine marking, heat-sensitive materials (metal, foils, silicon, plastics, etc.) and applications where high consistency is required.

### **CO<sub>2</sub>**



Proven CO<sub>2</sub> systems provide a galvo-steered beam. It is an excellent choice for heavy use and high-duty cycle environments and is beneficial to label and packing operations as it removes the need for consumables and speeds process. Equally capable at stationary bench-top use and mark-on-thefly installations, this machine can mark up to 1300 characters per second in automated environments.















PAINTED METALS

### **DUAL-HEAD**

LASER MARKING SYSTEM

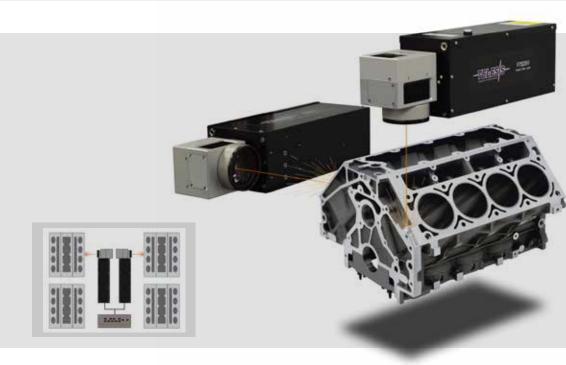
**Increases throughput** in high-speed and repetitive applications

Allows unique ability to control two lasers from one controller

Saves floor space and reduces part handling by the operator

**Creates unmatched efficiency** and operating productivity

### **Double the Capability with One Controller**



**Models** 

**F30V** 30 Watt **F50V** 50 Watt **F100V** 100 Watt **Controllers** 

F16I External PC
F16IE Embedded PC

Software

Proprietary Merlin® 2H

**Technology Options** 

Vari-Z<sup>™</sup> 3-Axis 3D/AutoFocus Cognex<sup>™</sup> In-line Vision Mark-on-the-Fly Software

Diameter	Markin	g Aı	·ea		Working (	Clearance		
100 mm	2.56 in	X	2.56 in	65 mm	X	65 mm	3.82 in	97 mm
160 mm	3.54 in	x	3.54 in	90 mm	X	90 mm	6.93 in	176 mm
163 mm	4.33 in	X	4.33 in	110 mm	X	110 mm	7.28 in	185 mm
254 mm	6.89 in	X	6.89 in	175 mm	X	175 mm	11.65 in	296 mm
330 mm	9.06 in	X	9.06 in	230 mm	X	230 mm	15.23 in	387 mm
350 mm	9.84 in	X	9.84 in	250 mm	X	250 mm	15.43 in	392 mm
420 mm	11.42 in	X	11.42 in	290 mm	X	290 mm	19.45 in	493 mm

## FIBER LASER MARKING SYSTEM

**Features superior beam technology** for fast and efficient marking

**Contains high quality components** that are ruggedly industrial and durable

**Outperforms higher powered systems** 

**Safe in non-climate controlled environments** where shock, vibration, and dust are a concern

### **Cleaner Marks in Less Time**





### **Models**

**F30V** 30 Watt **F50V** 50 Watt **F100V** 100 Watt

### **Controllers**

F16I External PC
F16IE Embedded PC

### Software

Proprietary Merlin® II LS

### **Technology Options**

Vari-Z<sup>™</sup> 3-Axis iZONIT<sup>™</sup> Vision System TeleView<sup>™</sup> Quality Control Programmable Mounting Post

### **Lens Configurations**

Diameter	Markin	g Aı	·ea		Working (	Clearance		
100 mm	2.56 in	X	2.56 in	65 mm	X	65 mm	3.82 in	97 mm
160 mm	3.54 in	x	3.54 in	90 mm	X	90 mm	6.93 in	176 mm
163 mm	4.33 in	X	4.33 in	110 mm	X	110 mm	7.28 in	185 mm
254 mm	6.89 in	X	6.89 in	175 mm	X	175 mm	11.65 in	296 mm
330 mm	9.06 in	X	9.06 in	230 mm	X	230 mm	15.23 in	387 mm
350 mm	9.84 in	X	9.84 in	250 mm	X	250 mm	15.43 in	392 mm
420 mm	11.42 in	X	11.42 in	290 mm	X	290 mm	19.45 in	493 mm

### Dimensions

WITHOUT VARI-Z™

22.8 in x 5.1 in x 6 in 579 mm x 129 mm x 152 mm

WITH VARI-Z™

**26.3** in x **6.3** in x **5.2** in **668** mm x **160** mm x **140** mm

## UV/ONE<sup>TM</sup> LASER MARKING SYSTEM

All-in-one marker/controller design saves **space** in your facility with a compact footprint for **easy integration** into production lines

Through suppressed heat effects, burrs and yellow tinting are eliminated, allowing for a nearly perfect finish

Completely eliminate day-to-day consumables and reduce operational costs

### **Dimensions**

**24.4** in x **7.0** in 620 mm x 178 mm x 191 mm

### **Ultra-Crisp Marks on Challenging Materials**





**Models** 

UV/one<sup>TM</sup>

**Controllers** 

**Fully Integrated** 

**Technology Options** 

 $\textbf{iZONIT}^{\tiny{\texttt{TM}}} \text{ Vision System}$ 

Mark-on-the-Fly Technology **Programmable Mounting Post** 

Software

Proprietary Merlin® II LS

**Lens Configurations Diameter Marking Area Working Clearance** 

N/A 5.9 in x 5.9 in 150 mm x 150 mm 239 mm



### **Extra Power for Robust Applications**



Models EV4GDS **Controllers** 

E15E

E15 External PC

Embedded PC

Software

Proprietary Merlin® II LS

### **Technology Options**

**Mark-on-the-Fly** Technology Programmable Mounting Post

Diameter	Marking	g Ar	ea		<b>Working Clearance</b>			
100 mm	2.17 in	X	2.17 in	55 mm	X	55 mm	3.54 in	90 mm
160 mm	4.33 in	x	4.33 in	110 mm	x	110 mm	6.93 in	176 mm
250 mm	6.69 in	x	6.69 in	170 mm	X	170 mm	11.34 in	288 mm

## VANADATE LASER MARKING SYSTEM

Low-cost engraving and annealing for a wide array of product materials including ferrous and non-ferrous metal, label materials, and silicon

Precise setting controls for fine-tuned application versatility: Engraving, annealing, surface marking, and color marking

Very small HAZ (heat-affected zone) provides additional flexibility with heat-sensitive and delicate components

### **Dimensions**

**24.0** in x **6.1** in x **5.5** in **510** mm x **154** mm x **141** mm

### **Versatile Marking on a Range of Materials**



Models

EVCDS

**Controllers** 

E15 External PC

E15E Embedded PC

Software

Proprietary Merlin® II LS

### **Technology Options**

Vari-Z<sup>™</sup> 3-Axis

Mark-on-the-Fly Technology

**Programmable Mounting Post** 

	_							
Diameter	Markin	g Ar	ea		Working Cl	earance		
100 mm*	2.56 in	X	2.56 in	65 mm	x	65 mm	3.82 in	97 mm
160 mm*	4.33 in	x	4.33 in	110 mm	x	110 mm	6.93 in	176 mm
160 mm	4.33 in	x	4.33 in	110 mm	x	110 mm	7.13 in	181 mm
254 mm*	6.89 in	x	6.89 in	175 mm	x	175 mm	11.65 in	296 mm
254 mm	6.89 in	x	6.89 in	175 mm	X	175 mm	11.5 in	292 mm
330 mm*	9.06 in	X	9.06 in	230 mm	X	230 mm	15.24 in	387 mm
420 mm*	11.42 in	X	11.42 in	290 mm	x	290 mm	19.41 in	493 mm

## **CO2** LASER MARKING SYSTEM **Great for marking organic** materials like wood, rubber, paper, and ceramic Equally capable at stationary bench-top use and mark-onthe-fly installations Excellent choice for **heavy** industrial and high-duty cycle applications **Dimensions 34.0** in x **8.3** in 864 mm x 211 mm x 217 mm

### **Proven Flexibility and Practicality**





### **Models**

**CO2 • 10** 10 Watt **CO2 • 30** 30 Watt

### **Controllers**

C1830EF Embedded PC

### Software

Proprietary Merlin® II LS

### **Technology Options**

**iZONIT**<sup>™</sup> Vision System

Mark-on-the-Fly Technology

Programmable Mounting Post

Diameter	Markin	g Ar	rea		Working C	learance		
100 mm	2.76 in	x	2.76 in	70 mm	X	70 mm	3.19 in	81 mm
160 mm	4.33 in	x	4.33 in	110 mm	X	110 mm	5.15 in	131 mm
210 mm	5.51 in	x	5.51 in	140 mm	x	140 mm	7.24 in	184 mm
350 mm	9.84 in	x	9.84 in	250 mm	x	250 mm	13.82 in	351 mm

## BenchMark BenchMark is an entry-level laser **designed to** serve clients without compromising quality. Lasers are manufactured in Circleville, Ohio **USA** using high quality components. Backed by an 12 month warranty with an award-winning service program and replacement policy. **Dimensions** 20.6 in x 5.0 in x 5.2 in 523 mm x 127 mm x 131 mm

### **Entry-level Marking for Growing Operations**





### Models

BenchMark™ L30

### **Controllers**

Model 6EE

### **Technology Options**

**Mark-on-the-Fly** Technology Programmable Mounting Post

### Software

Proprietary Merlin® II LS

Diameter	Marking A	rea		Working (	Clearance		
160 mm	4.33 in x	4.33 in	110 mm	X	110 mm	7.0 in	179 mm
254 mm	6.89 in x	6.89 in	175 mm	x	175 mm	11.45 in	291 mm

### VARI \* Z

### Vari-Z™

### 3D DIMENSIONAL MARKING

With an industry-best focal range of up to +4.72 in (119.89 mm), the Vari-Z significantly reduces part and laser positioning time

Eliminates costs for external Z-axis hardware

Variable focus eliminates the need for precise laser mounting

Makes part change-over fast and easy

### **AUTO** FOCUS

### **Auto-Focus**

### ACHIEVE PERFECT FOCUS EVERY CYCLE

High quality marks every time

Eliminates expensive tooling costs

Features real-time correction for process variability



### Teleview™

### CUSTOM INSPECTION AND CODE READING

Reduces footprint and integration costs compared to external vision system

Reads and grades data matrix codes and features a live viewing window with laser focus indicator

Option to read and grade to ISO and AIM DPM standards



Accurately and easily **establish and view mark positioning** before firing the laser

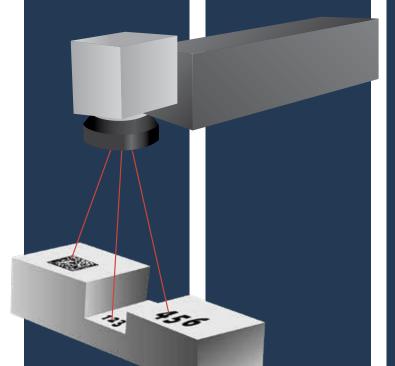
Set the mark location when the object to be marked is not visible

- Dial-indexing table enclosures
- Class 1 safety enclosures
- Remote marking operations

**Save time and increase productivity** during pattern design with a camera-assisted mark positioning system

**Increase throughput**—especially with marking applications that involve multiple parts or a variety of parts

**Immediately verify and validate** data matrix 2D codes for compliance





### **Class 1 Enclosures**



### **BoxPro**™

#### **PLUG AND PLAY**

The Telesis BoxPro arrives fully assembled, meaning once it is powered, you can get right to work

#### **SIMPLICITY**

The BoxPro offers a simple effective design paired with an entry-level laser marker perfect for smaller and upand-coming outfits

#### **RIGHT-SIZED**

At 20 in x 16 in (508 mm x 406.4 mm) this efficiently sized Class 1 enclosure can fit into almost any production space.



### DialPro™

#### **FASTER CYCLE TIME**

Simultaneous load/unload and mark/read operations with dual positions

Concurrently run multiple processes in parallel with the addition of extra positions

#### **PRODUCTIVITY**

Fast and easy part handling with integration-friendly front or overhead load/unload design

Time-saving view of control operations and code reading with overhead monitor

Greater mark positioning efficiency and 2D code reading functionality

#### **FLEXIBILITY**

36 in (914 mm) diameter dial table and a 10 in (254 mm) height clearance provide ample spatial capacity for processing a wide range of part sizes



### **ProMed**

#### MEDICAL GRADE

The Telesis ProMed is exclusively designed for the demanding needs of medical device part marking

#### **PRECISION IN MIND**

The Mattison precision ground top plate, Aerotech X/Y stage, heavy-duty welded steel base, and robust programmable Z-axis mounting post make this equipment solid and marks exact

#### LASER FOCUSED

Equipped with a laser perfect for annealing as well as other applications, the Telesis ProMed is available as a Class 1 or CDRH Class 4 enclosure

### **ProStation Class 1 Enclosures**



#### Why it's great Robust, industrial, and Narrow and nimble Class customizable Class 1 laser 1 enclosure workstation enclosure for marking large for challenging space parts constraints **Enclosure Size 40** in x **102.5** in x **40.24** in 27.5 in x 71.3 in x 35.4 in 1016 mm x 2603 mm x 1022 mm 698 mm x 1811 mm x 899 mm $\mathbf{W} \times \mathbf{H} \times \mathbf{D}$ Interior Working Area **36.5** in x **37** in x **30.25** in **26.5** in x **36.5** in x **24.5** in $\mathbf{W} \times \mathbf{H} \times \mathbf{D}$ 927 mm x 940 mm x 768 mm 673 mm x 927 mm x 622 mm

Mini ProStation™

**ProStation**<sup>™</sup>

### **Laser Accessories**

### **Ring Light Kit**

When marking codes or text, a ring light **illuminates** and amplifies the mark for the most accurate, highest contrast validation reading.



### **AutoFocus Kits**

AutoFocus can **automatically adjust the focus point of the laser without intervention** by the operator. This works seamlessly with Merlin® software to verify perfect laser focus.



### **Mounting Posts**

Mounting posts are **designed to fit any application and position the laser as required**; they can be placed vertically or horizontally and their adjustment can be manual or automated.



### **Rotary Devices**

A rotary device **rotates items so marks can be accomplished around the diameter of the part.** These devices are easily programmable with Merlin® proprietary software.



### **Linear Stages**

Linear stages **move parts into the marking window.** These stages work with Merlin® to index large parts or pallets of multiple parts that can utilize indexed marking locations.



### **Start Print Foot Pedal**

This device is an **external pedal that can start the print.**Operators simply push the pedal to start the print and/or process.



### **Start/Abort Control Unit**

This panel allows a **simple start button to start the laser, as well as any automated processes** associated. The abort control will stop the entire process immediately for the highest level of safety.



### **Ethernet/PROFINET cards and adapters**

Signals and commands can be sent and received through Ethernet/PROFINET allowing the user to **easily integrate the markers into their current production line** or system.



### **Fume Removal Systems**

Laser marking can produce gases the need to be removed. The fume removal system is a powerful filtration system that has a nozzle placed at the part and cleans the air of fumes.



FIBER		CO <sub>2</sub>	VANADATE	VANADATE			
MODEL	F30 / F50	CO2 • 10 / Co2 • 30	EVCDS	EV15DS	EV40		
MARK DESCRIPTION WAVE LENGTH AVERAGE POWER PULSE FREQUENCY POSITIONING	Q-SWITCHED YTTERBIUM FIBER 1060 NM UP TO 30 WATTS 30 - 120 KHZ + 50 - 120 KHZ VISIBLE RED DIODE LIGHT	SEALED-TUBE, CARBON DIOXIDE 10.6 MICROMETERS (μM) 10 WATTS VISIBLE RED DIODE LIGHT	FIBER-COUPLED DPSS 1064 NM UP TO 15 WATTS VISIBLE RED DIODE LIGHT	FIBER-COUPLED DPSS 1064 NM UP TO 20 WATTS VISIBLE RED DIODE LIGHT	FIBER-COUPLED DPSS 1064 NM UP TO 55 WATTS VISIBLE RED DIODE LIGHT		
LASER HEAD (IN) (LXWXH) LASER HEAD (MM) (LXWXH) VARI-Z HEAD (IN) VARI-Z HEAD (MM) LASER HEAD WEIGHT	22.791 X 5.076 X 5.991 578.9 X 128.9 X 152.2 26.311 X 6.32 X 5.221 668.3 X 160.5 X 140.2 16.84 LBS (7.64 KG)	34.03 X 8.301 X 8.52 864.4 X 210.8 X 216.6 56 LBS (25.4 KG)	24 X 6.1 X 5.55 610 X 154 X 141 32 LBS (14.5 KG)	28.3 X 6.4 X 7.5 719 X 162 X 191.6 44 LBS (20 KG)	29.3 X 8.8 X 9.3 743.1 X 223.7 X 235.6 44 LBS (20 KG)		
CONTROLLER CONTROLLER (IN) (LXWXH) CONTROLLER (MM) (LXWXH) CONTROLLER WEIGHT	F14A, MODEL 6, F16I 20.12 X 17.25 X 8.38 511.048 X 438.2 X 212.7 60 LBS (27.27 KG)	C18 / C18E 18 X 17.340 X 5.53 457 X 440 X 140 22LBS (9.98KG)	E <sub>15</sub> 15.5 X 18.24 X 5.52 393.7 X 437.9 X 140.2 33 LBS (15 KG)	E15 15.5 X 18.24 X 5.52 393.7 X 437.9 X 140.2 33 LBS (15 KG)	E1140 17.3 X 8.3 X 17.3 439 X 211 X 438 38 LBS (17.3 KG)		
LENS OPTIONS (IN) + MARKING WINDOW	100 MM 2.56 X 2.56 160 MM 3.54 X 3.54 163 MM 4.33 X 4.33 254 MM 6.89 X 6.89 330 MM 9.06 X 9.06 350 MM 9.84 X 9.84 420 MM 11.42 X 11.42	100 MM 2.76 X 2.76 160 MM 4.33 X 4.33 210 MM 5.51 X 5.51 350 MM 9.84 X 9.84	100 MM 2.56 X 2.56 160 MM 4.33 X 4.33 254 MM 6.89 X 6.89 330 MM 9.06 X 9.06 420 MM 11.42 X 11.42	100 MM 2.56 X 2.56 160 MM 4.33 X 4.33 163 MM 4.33 X 4.33 254 MM 6.89 X 6.89 330 MM 9.06 X 9.06 420 MM 11.42 X 11.42	100 MM 2.56 X 2.56 160 MM 3.54 X 3.54 163 MM 4.33 X 4.33 254 MM 6.89 X 6.89 330 MM 9.06 X 9.06 350 MM 9.84 X 9.84 420 MM 11.42 X 11.42		
LENS OPTIONS (MM) + MARKING WINDOW	100 MM 65 X 65 160 MM 90 X 90 163 MM 110 X 110 254 MM 175 X 175 330 MM 230 X 230 350 MM 250 X 250 420 MM 290 X 290	100 MM 70 X 70 160 MM 110 X 110 210 MM 140 X 140 350 MM 250 X 250	100 MM 65 X 65 160 MM 110 X 110 254 MM 175 X 175 330 MM 230 X 230 420 MM 290 X 290	100 MM 65 X 65 160 MM 110 X 110 163 MM 110 X 110 254 MM 175 X 175 330 MM 230 X 230 420 MM 290 X 290	100 MM 65 X 65 160 MM 90 X 90 163 MM 110 X 110 254 MM 175 X 175 330 MM 230 X 230 350 MM 250 X 250 420 MM 290 X 290		
RESOLUTION FONT BARCODE 2D MATRIX CODE G51 DATA BAR LOGO IMAGE MACHINE OPERATION	16-BIT (LENS DEPENDENT) VECTOR, CUSTOM, TRUETYPE YES YES YES YES YES MANUAL OR AUTOMATIC	16-BIT (LENS DEPENDENT) VECTOR, CUSTOM, TRUETYPE YES YES YES YES MANUAL OR AUTOMATIC	16-BIT (LENS DEPENDENT) VECTOR, CUSTOM, TRUETYPE YES YES YES YES MANUAL OR AUTOMATIC	16-BIT VECTOR, CUSTOM, TRUETYPE YES YES YES YES MANUAL OR AUTOMATIC	16-BIT VECTOR, CUSTOM, TRUETYPE YES YES YES YES YES MANUAL OR AUTOMATIC		
HEAD CABLE COOLING MAX POWER CONSUMPTION	2.74 M TO 5 M AIR COOLED, FAN LESS THAN 280 WATTS	1.8 M AIR-COOLED, FANS LESS THAN 680 WATTS	1.75 M OR 4.75 M AIR COOLED, ACTIVE LESS THAN 400 WATTS	1.75 M OR 4.75 M AIR COOLED, ACTIVE LESS THAN 500 WATTS	1.75 M OR 4.75 M AIR COOLED, ACTIVE LESS THAN 950 WATTS		
OPERATING TEMP (F) OPERATING TEMP (C) RECOMMENDED TEMP (F) RECOMMENDED TEMP (C) AMBIENT HUMIDITY	59° - 95° F 18° - 35° C 68° - 77° F 20° - 25° C 10% - 85% NON-CONDENSING	59°F TO 86°F 15°C TO 30°C 61°F TO 75°F 16°C TO 24°C 10% TO 90% NON-CONDENSING	59° - 95° F 15° - 35° C 68° - 77° F 20° - 25° C 10% - 85% NON-CONDENSING	65° - 95° F 18° - 35° C 68° - 77° F 20° - 25° C 10% - 85% NON-CONDENSING	65° - 95° F 18° - 35° C 68° - 77° F 20° - 25° C 10% - 85% NON-CONDENSING		
COMPLIANCE INTERFACE COMMUNICATION	CDRH, CE TCP/IP, ETHERNET/IP, PROFINET DISCRETE IO	CDRH ETHERNET IP, PROFINET, TCP/IP, SERIAL	CDRH, CE TCP/IP, ETHERNET/IP, DISCRETE IO	CDRH, CE TCP/IP, ETHERNET/IP, DISCRETE IO	CDRH, CE TCP/IP, ETHERNET/IP, DISCRETE IO		
SOFTWARE OPERATING SYSTEM DIODE WARRANTY ELECTRONICS WARRANTY	MERLIN® II LS WINDOWS® 7 OR BETTER 2 YEARS 1 YEAR	MERLIN® II LS WINDOWS® 7 OR BETTER 1 YEAR 1 YEAR	MERLIN® II LS WINDOWS® 7 OR BETTER 2 YEARS 1 YEAR	MERLIN® II LS WINDOWS® 7 OR BETTER 2 YEARS 1 YEAR	MERLIN® II LS WINDOWS® 7 OR BETTER 2 YEARS 1 YEAR		

	ULTRAVIOLET		GREEN	BENCHMARK™		
MODEL	uvc	UV/one™	EV4GDS	BENCHMARK L30		
MARK DESCRIPTION WAVE LENGTH AVERAGE POWER PULSE FREQUENCY	FIBER-COUPLED DPSS 355 NM UP TO 2 WATTS  VISIBLE RED DIODE LIGHT	FIBER-COUPLED DPSS 355 NM UP TO 1 WATT VISIBLE RED DIODE LIGHT	FIBER-COUPLED DPSS 532 NM UP TO 10 WATTS VISIBLE RED DIODE LIGHT	Q-SWITCHED YTTERBIUM FIBER 1060 NM UP TO 30 WATTS VISIBLE RED DIODE LIGHT		
POSITIONING	VISIBLE RED DIODE LIGHT	VISIBLE RED DIODE LIGHT				
LASER HEAD (IN) (LXWXH) LASER HEAD (MM) (LXWXH VARI-Z HEAD (IN) VARI-Z HEAD (MM) LASER HEAD WEIGHT		24.41 X 7.0 X 7.5 620 X 178 X 191 32 LBS (14.5 KG)	31.73 X 9.783 X 7.44 805.95 X 248.49 X 196.68 55 LBS (25 KG)	20.603 X 127.00 X 131.40 523.3 X 127.00 X 131.4 15 LBS (6.82 KG)		
			_			
CONTROLLER CONTROLLER (IN) (LXWXH) CONTROLLER (MM) (LXWX CONTROLLER WEIGHT		Integrated	E15 15.5 X 18.24 X 5.52 393.7 X 437.9 X 140.2 33 LBS (15 KG)	6EE 16.75 X 5.68 X 20.00 425.5 X 144.3 X 508.00 33 LBS (15 KG)		
LENS OPTIONS (IN) + MARKING WINDOW	103 MM 1.96 X 1.96 160 MM 3.15 X 3.15 250 MM 6.10 X 6.10		100 MM 2.17 X 2.17 160 MM 3.54 X 3.54 254 MM 6.69 X 6.69 330 MM 11.42 X 11.42	160 MM 4.33 X 4.33 254 MM 6.89 X 6.89		
LENS OPTIONS (MM) + MARKING WINDOW	103 MM 50 X 50 160 MM 80 X 80 250 MM 155 X 155		100 MM 55 X 55 160 MM 90 X 90 254 MM 175 X 175 420 MM 290 X 290	100 MM 110 X 110 154 MM 291 X 291		
RESOLUTION	16-BIT (LENS DEPENDENT)	16-BIT	16-BIT	16-BIT		
FONT	VECTOR, CUSTOM, TRUETYPE	VECTOR, CUSTOM, TRUETYPE	VECTOR, CUSTOM, TRUETYPE	VECTOR, CUSTOM, TRUETYPE		
BARCODE	YES	YES	YES	YES		
2D MATRIX CODE	YES	YES	YES	YES		
GS1 DATA BAR	YES	YES	YES	YES		
LOGO IMAGE	YES	YES	YES	YES		
MACHINE OPERATION	MANUAL OR AUTOMATIC	MANUAL OR AUTOMATIC	MANUAL OR AUTOMATIC	MANUAL OR AUTOMATIC		
HEAD CABLE		ETHERNET CABLE	1.75 M OR 4.75 M	2.0 M		
COOLING	AIR COOLED	AIR COOLED	AIR COOLED, ACTIVE	AIR COOLED, FAN		
MAX POWER CONSUMPTIO	N LESS THAN 400 WATTS	LESS THAN 280 WATTS	LESS THAN 600 WATTS	LESS THAN 280 WATTS		
OPERATING TEMP (F)	65° - 95° F	65° - 02° E	50° - 05° E	50° - 05° E		
OPERATING TEMP (C)	15° - 35° C	65° - 93° F 18° - 34° C	59° - 95° F 15° - 35° C	59° - 95° F 15° - 35° C		
RECOMMENDED TEMP (F)	68° - 77° F	68° - 77° F	68° - 77° F	68° - 77° F		
RECOMMENDED TEMP (C)	20° - 25° C	20° - 25° C	20° - 25° C	20° - 25° C		
AMBIENT HUMIDITY	10% - 85% NON-CONDENSING	10% - 85% NON-CONDENSING	10% - 85% NON-CONDENSING	10% - 85% NON-CONDENSING		
COMPLIANCE	CDRH, CE	CDRH, CE	CDRH, CE	CDRH, CE		
INTERFACE COMMUNICATION		·	·	DISCRETE IO		
INTERFACE COMMUNICATIO	DISCRETE IO	TCP/IP, ETHERNET/IP, PROFINET DISCRETE IO	TCP/IP, ETHERNET/IP, DISCRETE IO	DISCRETE TO		
	MEDI MO II I S					
SOFTWARE	MERLIN® II LS	MERLIN® II LS	MERLIN® II LS	MERLIN® II LS		
OPERATING SYSTEM	WINDOWS® 7 OR BETTER	WINDOWS® 7 OR BETTER	WINDOWS® 7 OR BETTER	WINDOWS® 7 OR BETTER		
DIODE WARRANTY	18 MONTHS	1 YEAR	2 YEARS	1 YEAR		
ELECTRONICS WARRANTY	1 YEAR	1 YEAR	1 YEAR	1 YEAR		



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