

# LASER LINEUP

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**DUAL-HEAD** LASER MARKING SYSTEMS

**FIBER** LASER MARKING SYSTEMS

**ULTRAVIOLET** LASER MARKING SYSTEMS

**CO<sub>2</sub>** LASER MARKING SYSTEMS

**GREEN** LASER MARKING SYSTEMS

**VANADATE** LASER MARKING SYSTEMS

CLASS 1 **LASER ENCLOSURES**



**INTERSYS**<sup>®</sup>

SOLUCIONES EN CODIFICACIÓN Y TRAZABILIDAD INDUSTRIAL

**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.

— PROPRIETARY —  
**DUAL-HEAD  
LASER**  
— MARKING SYSTEM —

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

*Merlin.*

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.

# Content

**Overview** Page 6

**Dual-Head** Page 8

**Fiber** Page 10

**UV/one™** Page 12

**Green** Page 14

**Vanadate** Page 16

**CO<sub>2</sub>** Page 18

**BenchMark™** Page 20

**Vision Systems** Page 22

**Enclosures** Page 24

**Accessories** Page 26

**Technical Matrix** Page 28

# Laser Marker Overview

## Dual-Head

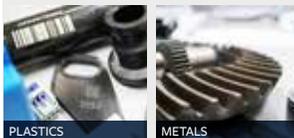


The innovative, patented Telesis dual-head laser system is **perfectly suited for advanced applications that require rapid processing**. The multi-head design of this laser offers the **unique ability to control two laser markers with the same controller**, reducing overall footprint and lowering the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

## Fiber



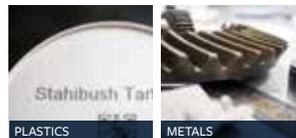
The Telesis Fiber laser marking system is the **most versatile marking technology** due to its **adaptability, minimal maintenance, and the total elimination of consumables** from the marking process. They are most used in metal and plastic processing industries for **precise and efficient direct marking**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



## Ultraviolet



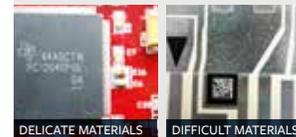
The 355 nm UV laser wavelength is versatile in marking a wide range of materials and **perfect for "cold marking" applications where heat-affected zones are not allowed**—the machine is **great for marking plastics and silicon materials without additives and can mark glass with a reduced risk of micro-fracture**.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



## Green



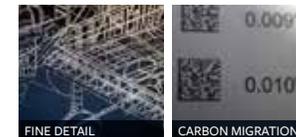
The Telesis EV4GDS is a fiber-coupled, diode-pumped, solid-state (DPSS) green wavelength system. The laser beam characteristics are **optimized for applications that require high beam quality and stability**. The EV4GDS offers **extra power and speed**—the ideal choice for laser marking, scribing, and 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**.



## CO2



Proven CO2 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-the-fly installations**, this machine can mark up to 1300 characters per second in automated environments.



# DUAL-HEAD LASER MARKING SYSTEM

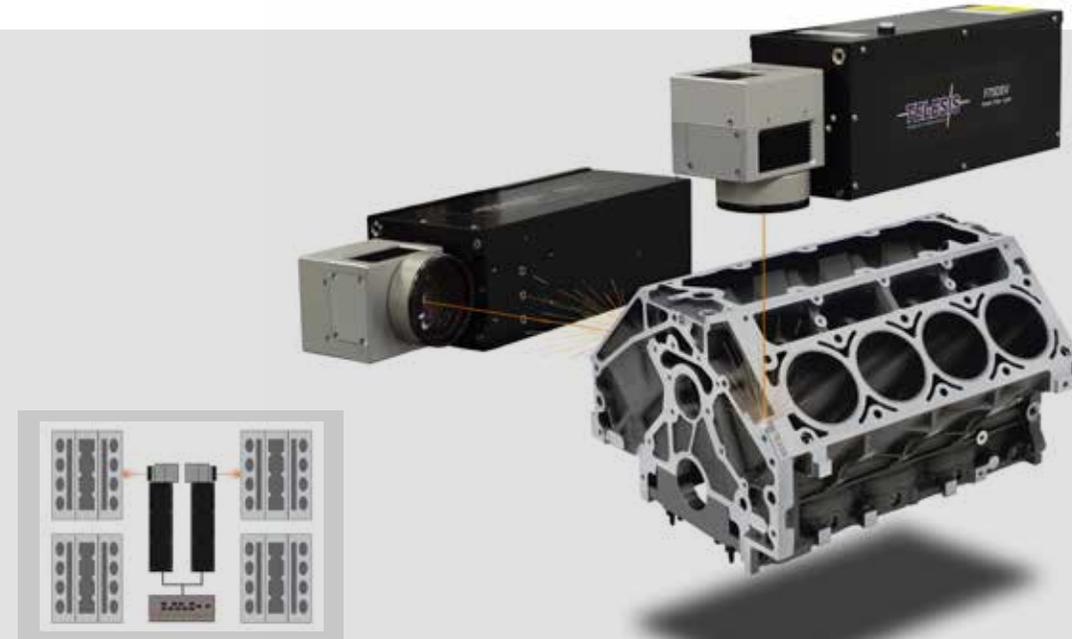
**Increases throughput** in high-speed and repetitive applications

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

<b>F30V</b>	30 Watt
<b>F50V</b>	50 Watt
<b>F100V</b>	100 Watt

### Controllers

<b>F16I</b>	External PC
<b>F16IE</b>	Embedded PC

### Technology Options

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

### Software

Proprietary **Merlin® 2H**

### Lens Configurations

Diameter	Marking Area				Working Clearance			
<b>100 mm</b>	2.56 in	x	2.56 in	65 mm	x	65 mm	3.82 in	97 mm
<b>160 mm</b>	3.54 in	x	3.54 in	90 mm	x	90 mm	6.93 in	176 mm
<b>163 mm</b>	4.33 in	x	4.33 in	110 mm	x	110 mm	7.28 in	185 mm
<b>254 mm</b>	6.89 in	x	6.89 in	175 mm	x	175 mm	11.65 in	296 mm
<b>330 mm</b>	9.06 in	x	9.06 in	230 mm	x	230 mm	15.23 in	387 mm
<b>350 mm</b>	9.84 in	x	9.84 in	250 mm	x	250 mm	15.43 in	392 mm
<b>420 mm</b>	11.42 in	x	11.42 in	290 mm	x	290 mm	19.45 in	493 mm

# FIBER LASER MARKING SYSTEM

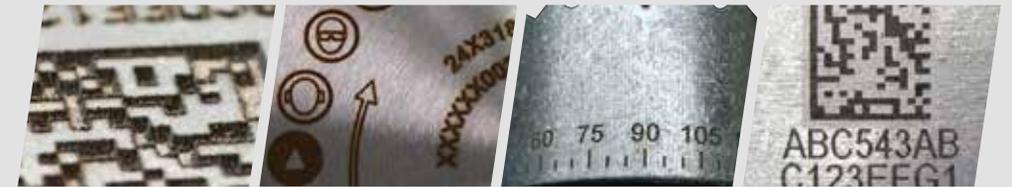
**Features superior beam technology** for fast and efficient marking

**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



### 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

### 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™ 3-Axis**  
**iZONIT™** Vision System  
**TeleView™** Quality Control  
Programmable Mounting Post

### Lens Configurations

Diameter	Marking Area				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

# UV/ONE™

## 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**



## Ultra-Crisp Marks on Challenging Materials



**NO  
CONTROLLER  
REQUIRED**



### Models

UV/one™

### Controllers

Fully Integrated

### Technology Options

iZONIT™ 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	9.409 in	239 mm

### Dimensions

24.4 in x 7.0 in x 7.5 in  
620 mm x 178 mm x 191 mm

# GREEN LASER MARKING SYSTEM

Provides cold marking for **ultra-fine and very soft marking on parts**

**Great option for marking materials that usually react poorly** to infrared wavelengths

Wonderful for **micro-marking**, like 2D matrix codes, as well as detailed graphic logos

Changes surface color for legible marks **without burning** the material

## Extra Power for Robust Applications



### Models

EV4GDS

### Controllers

E15 External PC  
E15E Embedded PC

### Technology Options

Mark-on-the-Fly Technology  
Programmable Mounting Post

### Software

Proprietary Merlin® II LS

### Lens Configurations

Diameter	Marking Area				Working Clearance			
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

### Dimensions

31.7 in x 9.8 in x 7.7 in  
806 mm x 249 mm x 197 mm

\* Premium Lens

# 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

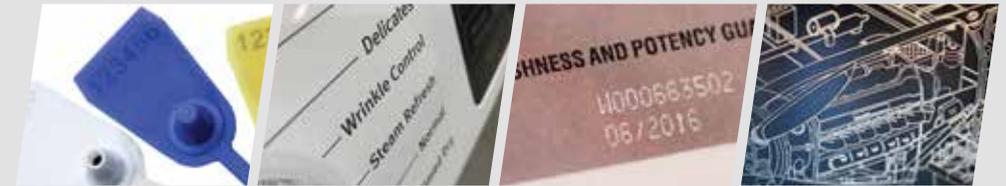
**Precise setting controls for fine-tuned application versatility:** Engraving, annealing, surface marking, and color marking

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

### Technology Options

Vari-Z™ 3-Axis  
Mark-on-the-Fly Technology  
Programmable Mounting Post

### Software

Proprietary Merlin® II LS

### Lens Configurations

Diameter	Marking Area			Working Clearance				
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

\* Premium Lens

# CO<sub>2</sub> LASER MARKING SYSTEM

Great for marking organic materials like wood, rubber, paper, and ceramic

Equally capable at stationary bench-top use and mark-on-the-fly installations

Excellent choice for heavy industrial and high-duty cycle applications

## Proven Flexibility and Practicality



CO<sub>2</sub> 30  
TELESIS  
MARK OF CONFIDENCE

### Dimensions

34.0 in x 8.3 in x 8.5 in  
864 mm x 211 mm x 217 mm

### Models

CO<sub>2</sub> • 10 10 Watt  
CO<sub>2</sub> • 30 30 Watt

### Controllers

C1830EF Embedded PC

### Software

Proprietary Merlin® II LS

### Technology Options

iZONIT™ Vision System  
Mark-on-the-Fly Technology  
Programmable Mounting Post

### Lens Configurations

Diameter	Marking Area				Working Clearance			
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.

## 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

### Lens Configurations

Diameter	Marking Area				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

### Dimensions

20.6 in x 5.0 in x 5.2 in  
523 mm x 127 mm x 131 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

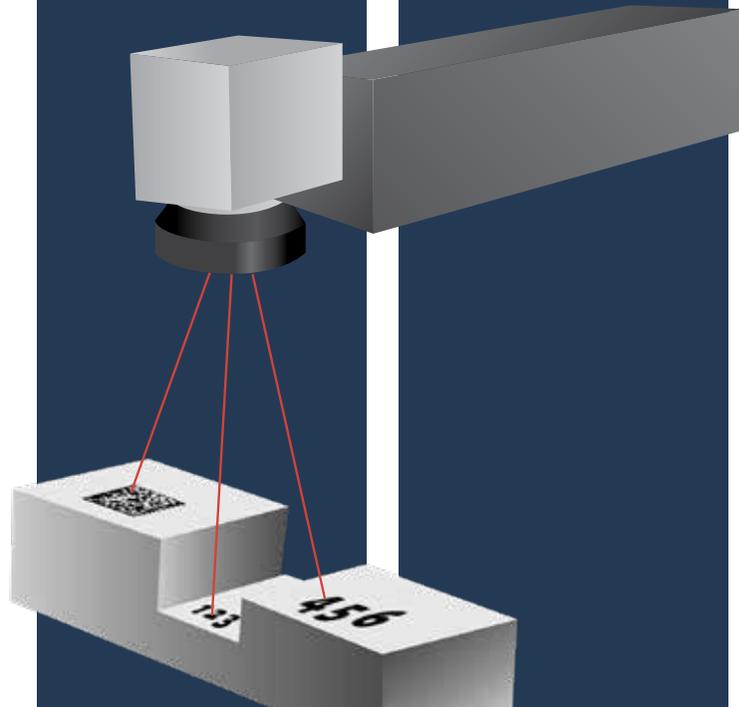
Set the mark location when the object to be marked is not visible

- 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 up-and-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

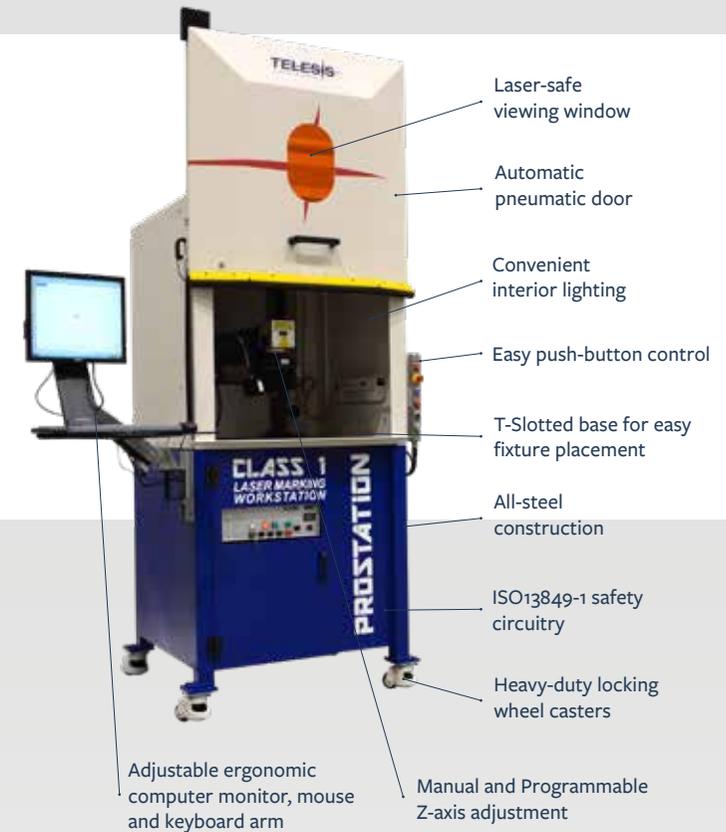
#### PRECISION IN MIND

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



### ProStation™

#### Why it's great

**Robust, industrial, and customizable** Class 1 laser enclosure for marking large parts

Enclosure Size **40 in x 102.5 in x 40.24 in**  
**W x H x D 1016 mm x 2603 mm x 1022 mm**

Interior Working Area **36.5 in x 37 in x 30.25 in**  
**W x H x D 927 mm x 940 mm x 768 mm**

### Mini ProStation™

Narrow and nimble Class 1 enclosure workstation **for challenging space constraints**

**27.5 in x 71.3 in x 35.4 in**  
**698 mm x 1811 mm x 899 mm**

**26.5 in x 36.5 in x 24.5 in**  
**673 mm x 927 mm x 622 mm**

# 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.



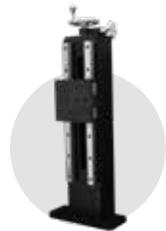
## AutoFocus Kits

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.



	<b>FIBER</b>		<b>CO2</b>		<b>VANADATE</b>		
<b>MODEL</b>	<b>F30 / F50</b>		<b>CO2 • 10 / CO2 • 30</b>		<b>EVCD5</b>	<b>EV15DS</b>	<b>EV40</b>
<b>MARK DESCRIPTION</b>	Q-SWITCHED YTTERBIUM FIBER		SEALED-TUBE, CARBON DIOXIDE		FIBER-COUPLED DPSS	FIBER-COUPLED DPSS	FIBER-COUPLED DPSS
<b>WAVE LENGTH</b>	1060 NM		10.6 MICROMETERS (µM)		1064 NM	1064 NM	1064 NM
<b>AVERAGE POWER</b>	UP TO 30 WATTS		10 WATTS		UP TO 15 WATTS	UP TO 20 WATTS	UP TO 55 WATTS
<b>PULSE FREQUENCY</b>	30 - 120 KHZ + 50 - 120 KHZ		VISIBLE RED DIODE LIGHT		VISIBLE RED DIODE LIGHT	VISIBLE RED DIODE LIGHT	VISIBLE RED DIODE LIGHT
<b>POSITIONING</b>	VISIBLE RED DIODE LIGHT						
<b>LASER HEAD (IN) (LXWXH)</b>	22.791 X 5.076 X 5.991		34.03 X 8.301 X 8.52		24 X 6.1 X 5.55	28.3 X 6.4 X 7.5	29.3 X 8.8 X 9.3
<b>LASER HEAD (MM) (LXWXH)</b>	578.9 X 128.9 X 152.2		864.4 X 210.8 X 216.6		610 X 154 X 141	719 X 162 X 191.6	743.1 X 223.7 X 235.6
<b>VARI-Z HEAD (IN)</b>	26.311 X 6.32 X 5.221						
<b>VARI-Z HEAD (MM)</b>	668.3 X 160.5 X 140.2						
<b>LASER HEAD WEIGHT</b>	16.84 LBS (7.64 KG)		56 LBS (25.4 KG)		32 LBS (14.5 KG)	44 LBS (20 KG)	44 LBS (20 KG)
<b>CONTROLLER</b>	F14A, MODEL 6, F161		C18 / C18E		E15	E15	E1140
<b>CONTROLLER (IN) (LXWXH)</b>	20.12 X 17.25 X 8.38		18 X 17.340 X 5.53		15.5 X 18.24 X 5.52	15.5 X 18.24 X 5.52	17.3 X 8.3 X 17.3
<b>CONTROLLER (MM) (LXWXH)</b>	511.048 X 438.2 X 212.7		457 X 440 X 140		393.7 X 437.9 X 140.2	393.7 X 437.9 X 140.2	439 X 211 X 438
<b>CONTROLLER WEIGHT</b>	60 LBS (27.27 KG)		22LBS (9.98KG)		33 LBS (15 KG)	33 LBS (15 KG)	38 LBS (17.3 KG)
<b>LENS OPTIONS (IN) + MARKING WINDOW</b>	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
	160 MM 2.56 X 2.56	160 MM 4.33 X 4.33	210 MM 5.51 X 5.51	330 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
	163 MM 4.33 X 4.33	210 MM 5.51 X 5.51	330 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	
	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			
	330 MM 9.06 X 9.06						
	350 MM 9.84 X 9.84						
	420 MM 11.42 X 11.42						
<b>LENS OPTIONS (MM) + MARKING WINDOW</b>	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
	160 MM 90 X 90	160 MM 110 X 110	210 MM 140 X 140	330 MM 230 X 230	330 MM 230 X 230	350 MM 250 X 250	420 MM 290 X 290
	163 MM 110 X 110	210 MM 140 X 140	330 MM 230 X 230	330 MM 230 X 230	350 MM 250 X 250	420 MM 290 X 290	
	254 MM 175 X 175	330 MM 230 X 230	350 MM 250 X 250	420 MM 290 X 290			
	330 MM 230 X 230						
	350 MM 250 X 250						
	420 MM 290 X 290						
<b>RESOLUTION</b>	16-BIT (LENS DEPENDENT)		16-BIT (LENS DEPENDENT)		16-BIT (LENS DEPENDENT)	16-BIT	16-BIT
<b>FONT</b>	VECTOR, CUSTOM, TRUETYPE		VECTOR, CUSTOM, TRUETYPE		VECTOR, CUSTOM, TRUETYPE	VECTOR, CUSTOM, TRUETYPE	VECTOR, CUSTOM, TRUETYPE
<b>BARCODE</b>	YES		YES		YES	YES	YES
<b>2D MATRIX CODE</b>	YES		YES		YES	YES	YES
<b>GS1 DATA BAR</b>	YES		YES		YES	YES	YES
<b>LOGO IMAGE</b>	YES		YES		YES	YES	YES
<b>MACHINE OPERATION</b>	MANUAL OR AUTOMATIC		MANUAL OR AUTOMATIC		MANUAL OR AUTOMATIC	MANUAL OR AUTOMATIC	MANUAL OR AUTOMATIC
<b>HEAD CABLE</b>	2.74 M TO 5 M		1.8 M		1.75 M OR 4.75 M	1.75 M OR 4.75 M	1.75 M OR 4.75 M
<b>COOLING</b>	AIR COOLED, FAN		AIR-COOLED, FANS		AIR COOLED, ACTIVE	AIR COOLED, ACTIVE	AIR COOLED, ACTIVE
<b>MAX POWER CONSUMPTION</b>	LESS THAN 280 WATTS		LESS THAN 680 WATTS		LESS THAN 400 WATTS	LESS THAN 500 WATTS	LESS THAN 950 WATTS
<b>OPERATING TEMP (F)</b>	59° - 95° F		59°F TO 86°F		59° - 95° F	65° - 95° F	65° - 95° F
<b>OPERATING TEMP (C)</b>	18° - 35° C		15°C TO 30°C		15° - 35° C	18° - 35° C	18° - 35° C
<b>RECOMMENDED TEMP (F)</b>	68° - 77° F		61°F TO 75°F		68° - 77° F	68° - 77° F	68° - 77° F
<b>RECOMMENDED TEMP (C)</b>	20° - 25° C		16°C TO 24°C		20° - 25° C	20° - 25° C	20° - 25° C
<b>AMBIENT HUMIDITY</b>	10% - 85% NON-CONDENSING		10% TO 90% NON-CONDENSING		10% - 85% NON-CONDENSING	10% - 85% NON-CONDENSING	10% - 85% NON-CONDENSING
<b>COMPLIANCE</b>	CDRH, CE		CDRH		CDRH, CE	CDRH, CE	CDRH, CE
<b>INTERFACE COMMUNICATION</b>	TCP/IP, ETHERNET/IP, PROFINET DISCRETE IO		ETHERNET IP, PROFINET, TCP/IP, SERIAL		TCP/IP, ETHERNET/IP, DISCRETE IO	TCP/IP, ETHERNET/IP, DISCRETE IO	TCP/IP, ETHERNET/IP, DISCRETE IO
<b>SOFTWARE</b>	MERLIN® II LS		MERLIN® II LS		MERLIN® II LS	MERLIN® II LS	MERLIN® II LS
<b>OPERATING SYSTEM</b>	WINDOWS® 7 OR BETTER		WINDOWS® 7 OR BETTER		WINDOWS® 7 OR BETTER	WINDOWS® 7 OR BETTER	WINDOWS® 7 OR BETTER
<b>DIODE WARRANTY</b>	2 YEARS		1 YEAR		2 YEARS	2 YEARS	2 YEARS
<b>ELECTRONICS WARRANTY</b>	1 YEAR		1 YEAR		1 YEAR	1 YEAR	1 YEAR

## ULTRAVIOLET

## GREEN

## BENCHMARK™

MODEL	UVC	UV/one™	EV4GDS	BENCHMARK L30
MARK DESCRIPTION WAVE LENGTH AVERAGE POWER PULSE FREQUENCY POSITIONING	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
LASER HEAD (IN) (LXWXH) LASER HEAD (MM) (LXWXH) VARI-Z HEAD (IN) VARI-Z HEAD (MM) LASER HEAD WEIGHT	22.06 X 6.7 X 6.03 560 X 170 X 153 29.94 X 7.06 X 7.43 760 X 179 X 189 46 LBS (20.8 KG)	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) (LXWXH) CONTROLLER WEIGHT	U15 10 X 16.74 X 5.53 254 X 425.19 X 140.46 15 LBS (6.803 KG)	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 FONT BARCODE 2D MATRIX CODE GS1 DATA BAR LOGO IMAGE MACHINE OPERATION	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 MANUAL OR AUTOMATIC	16-BIT VECTOR, CUSTOM, TRUETYPE YES YES YES YES MANUAL OR AUTOMATIC
HEAD CABLE COOLING MAX POWER CONSUMPTION	AIR COOLED LESS THAN 400 WATTS	ETHERNET CABLE AIR COOLED LESS THAN 280 WATTS	1.75 M OR 4.75 M AIR COOLED, ACTIVE LESS THAN 600 WATTS	2.0 M AIR COOLED, FAN LESS THAN 280 WATTS
OPERATING TEMP (F) OPERATING TEMP (C) RECOMMENDED TEMP (F) RECOMMENDED TEMP (C) AMBIENT HUMIDITY	65° - 95° F 15° - 35° C 68° - 77° F 20° - 25° C 10% - 85% NON-CONDENSING	65° - 93° F 18° - 34° C 68° - 77° F 20° - 25° C 10% - 85% NON-CONDENSING	59° - 95° F 15° - 35° C 68° - 77° F 20° - 25° C 10% - 85% NON-CONDENSING	59° - 95° F 15° - 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, CE TCP/IP, ETHERNET/IP, PROFINET DISCRETE IO	CDRH, CE TCP/IP, ETHERNET/IP, DISCRETE IO	CDRH, CE DISCRETE IO
SOFTWARE OPERATING SYSTEM DIODE WARRANTY ELECTRONICS WARRANTY	MERLIN® II LS WINDOWS® 7 OR BETTER 18 MONTHS 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 1 YEAR 1 YEAR

# **TELESIS**

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