

Stellar Mark I-Series Specifications

Model		I-Series	
Model No.		I-10A	IF-20
Laser Type	Wavelength	1064 nm	1064 nm
	Type	Nd:YVO4, Q-Switched	Yb-doped, MOPA
	Output Power	Average 10W	Average 20W
	Beam Mode	TEM00	
	Frequency	1~100 KHz	
	Cooling	Air-Cooled (No water chiller required)	
Electrical Requirement	220V, 50/60 Hz	110~220V, 50/60 Hz	
	Max 12 Amp	Max 5 Amp	
Dimensions	Laser head	L 600 x W 200 x H 200 mm	L 450 x W 168 x H 155 mm
	Control unit	L 660 x W 250 x H 475 mm	L 470 x W 360 x H 241 mm
Operating System	Win 2000/XP/Vista; Win 7 (32 bit)		
Environment	Temperature	15° C ~ 35° C	
	Humidity	10 ~ 80%, Non condensing	
Safety	Class 4 (Class 3R available with safety shield)		
Max Linear Marking Speed	3,000 mm/s		3,000 mm/s
Max Marking Speed	10,000 mm/s		10,000 mm/s

Scan lens Specifications

Model No.	I-10 070A	I-10 110A	I-10 180A
Working Area	70 x 70 mm	110 x 110 mm	180 x 180 mm
Spot Size**	20 µm	30 µm	40 µm
Working Distance	99+/- 0.25 mm	178 +/- 0.3 mm	298 +/- 0.5 mm
Repeatability**	0.004 mm	0.006 mm	0.010 mm

Model No.	IF-20 070	IF-20 110	IF-20 180
Working Area	70 x 70 mm	110 x 110 mm	180 x 180mm
Spot Size**	20 µm	30 µm	40 µm
Working Distance	98.3 +/- 0.25 mm	175.6 +/- 0.3 mm	295 +/- 0.5 mm
Repeatability**	0.004 mm	0.006 mm	0.10 mm

Above specifications are subject to change without further notices.
All above spot size will be material dependent.
**According to theoretical calculation.

Optional Items



Mounting Platform



Workstation







Rotary Attachment



Air Extraction System



Adjustable Z-axis Table



Authorized Dealer

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Laser Marking System

The Ultimate Marking Solution for Industrial Manufacturing

Stellar Mark i series

- ▶ 10W and 20W models available
- ▶ Achieve 0.1 mm character height with perfect TEM00 beam mode
- ▶ Auto Power Compensation for consistent output power over a long period of time
- ▶ G-Mark Library software features password protection, auto text 1D and 2D barcode types
- ▶ Ideal solution for ABS, PC, rubber and metal marking

LaserPro®
www.laserpro.com

StellarMark I-Series

StellarMark I-Series Laser Marker is a comprehensive solution that satisfies customers with diverse requirements. StellarMark I-Series is easy to install, easy to operate, designed with simple maintenance and safety considerations while providing superior output quality.

Superior Output Performance

Benefiting from the state-of-the-art design, StellarMark I-Series stands out from the competition by increasing productivity and providing superior output quality. The perfect TEM00 beam mode brings in high precision marking results and ±2% stable laser output maintains consistent marking quality. In the meantime, StellarMark I-Series Laser Marker provides higher productivity with higher marking frequency.

G-Mark Library (Optional)

This programmable software can be used to customize functions by using VB scripts. All commands are received real time from a master PC and position offsets, rotating angle, and sequential marking can be set up. With G-Mark Library, the workflow of marking process can be optimized and simplified at the production line.

SmartPosition™

Variable speed, red dot pointer "preview" mode allows for accurate and easy marking positioning on the marked part.

Emergency Stop

The machine can be entirely shut down by pressing the "Emergency Stop" button from controller when any emergency occurs.

Perfect Beam Mode

LaserPro

Others

Key Switch



This safety feature enables operators to keep the laser locked to avoid unauthorized use.

Auto Power Compensation



Closed loop design ensures consistent output power over a long period of time.

* I-10A only.

High Marking Frequency

LaserPro

High Productivity

Others

Low Productivity

Superior Text-editing Function

- * Automatic Serial Marking
- * Barcode Marking
- * Wobble Marking
- * Jump Cross Marking
- * Font Variation
- * Logo and Image Marking
- * Arc Marking

Mark On Fly (Optional)

An optional software function that features marking of moving objects on a conveyor.

±2% Power Stability

LaserPro

Others

Arc Marking



Barcode Marking



Jump Cross Marking



Wobble Marking



Automatic Serial Marking



Application

Laser Marking System