

Stellar Mark I-Series Specifications

Model		I-Series			
Model No.		I-10A	IF 20LRM	IF 20SHS	IF 40HHS
Laser Type	Wavelength	1064 nm	1064 nm		1064 nm
	Type	Nd:YVO ₄ , Q-Switched	Yb-doped, MOPA		40W
	Output Power	10W	20W		40W
	Beam Mode	TEM00	TEM00		
Frequency		1~100 kHz	1~200 kHz	1~1000 kHz	1~1000 kHz
	Cooling	Air-cooled (No water chiller required)			
Electrical Requirement		220V, 50/60 Hz	110~220V, 50/60 Hz		
	Max 12 Amp		Max 10 Amp		
Dimensions	Laser head	L800 x W 200 x H 200 mm	L 525 x W 166 x H 155 mm		
	Control unit	L960 x W 250 x H 470 mm	L 470 x W 360 x H 241 mm		
Operating System		Win 2000/XP/Vista/Win 7/32bit (64bit)			
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	128.3±1 mm	206.8±2 mm	350.3±2 mm
Repeatability**	0.004 mm	0.006 mm	0.010 mm
Model No.	IF 20LRM 070	IF 20LRM 110	IF 20LRM 180
Working Area	70 x 70 mm	110 x 110 mm	180 x 180 mm
Spot Size**	35 µm	54 µm	65 µm
Working Distance	123.3±1 mm	206.8±2 mm	350.3±2 mm
Repeatability**	0.004 mm	0.006 mm	0.010 mm
Model No.	IF 20SHS 070	IF 20SHS 110	IF 20SHS 180
Working Area	70 x 70 mm	110 x 110 mm	180 x 180 mm
Spot Size**	22 µm	35 µm	55 µm
Working Distance	128.3±1 mm	206.8±2 mm	350.3±2 mm
Repeatability**	0.004 mm	0.006 mm	0.010 mm
Model No.	IF 40HHS 070	IF 40HHS 110	IF 40HHS 180
Working Area	70 x 70 mm	110 x 110 mm	180 x 180 mm
Spot Size**	40 µm	100 µm	150 µm
Working Distance	128.3±1 mm	206.8±2 mm	350.3±2 mm
Repeatability**	0.004 mm	0.006 mm	0.010 mm

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

Optional Items



Mounting Platform



Workstation



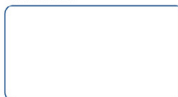
Rotary Attachment



EZ Stand

Adjustable Z-axis
Table

Authorized Dealer



www.GCCworld.com

The Ultimate Marking Solution for Industrial Manufacturing



- ▶ 10W, 20W and 40W models available
- ▶ Achieve 0.1 mm character height with perfect TEM00 beam mode
- ▶ Multiple waveforms are available for sophisticated marking and micro-machining applications (IF-20SHS/IF-40HHS models only)
- ▶ G Mark Library software features password protection, auto text 1D and 2D barcode types
- ▶ Ideal solution for ABS, PC, rubber and metal marking

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Laser Marking System

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 TEM00 beam mode brings in high precision marking results and stable laser output maintain consistent marking quality. Different M2 values are available with the different models under the IF-Series catering to the different requirements for different applications.



Beam Mode

IF 20LRM $1.6 \leq M^2 \leq 2.0$ 	IF 20SHS $M^2 \leq 1.3$ 	IF 40HHS $2.6 \leq M^2 \leq 3.7$
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Consistent Power Stability

GCC LaserPro Others

Superior Text-editing Function

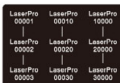
- Automatic Serial Marking
- Barcode Marking
- Wobble Marking
- Jump Cross Marking
- Font Variation
- Logo and Image Marking
- Arc Marking



▲ Arc Marking



▲ Barcode Marking



▲ Automatic Serial Marking

Key Switch

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

Mark On Fly (Optional)

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



▲ Jump Cross Marking



▲ Wobble Marking

Emergency Stop

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

SmartPOSITION™

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



▲ Full Path



▲ Outline

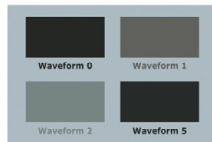
G-Mark Library (Optional)

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.



Waveform

While the IF 20LRM model has a single waveform suitable for basic marking applications, multiple waveforms are available for the IF 20SHS and IF 40HHS models further enabling you to make use of 25 optimized pulse waveforms ranging in duration from 10-240ns optimized for sophisticated marking and micro-machining applications. The availability of the waveforms open up more combinations that enables users to fine-tune their laser settings for optimal results.



Application



Mother Glass



PCB



PET Card



IC