StellarMark I-Series Specifications

Model		I-Series			
Model No.		IFII 20RMZ	IFII 50RMZ	IFII 20SHS	IFII 40HHS
Lesen True	Wavelength	1064 nm			
Laser Type	Туре	Yb-doped, MOPA			
	Output Power	20W	50W	20W	40W
	Beam Mode		TE	M00	
	Beam Quality (M ²)	<1.6		≦ 1.3	2.5-3.5
	Frequency	1-500 kHz 1~100		00 kHz	
	Waveform	2		25	
	Cooling	Air-cooled			
Max. Linear Marking Speed		3,000 mm/s			
Max. Marking Speed			10,00	00 mm/s	
Electrical Requirement	Power Supply	110~220V, 50/60 Hz Max 15 Amp			
	Power Consumption	Max. 1650W			
Dimensions	Laser head	L 508 x W 168 x H 185 mm			
	Control unit	L 470 x W 360 x H 241 mm			
Laser Head Weight			5	9 Kg	
Control Unit Weight			2	5 Kg	
Operating System		Microsoft Windows 200	0 / XP / Vista(32/64 Bit) /	7(32/64 Bit) / 8(32/64 Bit) (I	Desktop or Laptop PCs)
Environment	Temperature	15° C ~ 35° C			
	Humidity	10 ~ 80%, Non condensing			
Safety		Class 4 (Optional Class 1 or 3R), 2006/42/EC Machinery Directive,			
		2014/35/EU Low	/oltage Directive, 2014/3	0/EU Electromagnetic Co	ompatibility Directive

Scan Lens Specifications

Specifications	IFII 20 / 50RMZ Scan Lens			
Model No.	70	110	180	300
Working Area	70 x 70 mm	110 x 110 mm	180 x 180 mm	300 x 300 mm
Spot Size*	27 µm	44 µm	71 µm	114 µm
Working Distance	142.0±1 mm	220.0±2 mm	350.3±2 mm	553.3±3 mm
Repeatability**	0.03 mm	0.03 mm	0.04 mm	0.06 mm
300 lens only for IFII 50RMZ				

Specifications	IFII 20SHS Scan Lens			
Model No.	70	110	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	142.0±1 mm	220.0±2 mm	350.3±2 mm	
Repeatability**	0.03 mm	0.03 mm	0.04 mm	

Specifications	IFII 40HHS Scan Lens			
Model No.	70	110	180	
Working Area	70 x 70 mm	110 x 110 mm	180 x 180 mm	
Spot Size*	62 µm	100 µm	159 µm	
Working Distance	142.0±1 mm	220.0±2 mm	350.3±2 mm	
Repeatability**	0.03 mm	0.03 mm	0.06 mm	

Above specifications are subject to change without further notices. See dealer or visit http://www.GCC.world.com for more details. All above spot size will be material dependent. *According to theoretical calculation *The test is 8-hour continuous firing with power level at 30% using a 50RMZ Δ Specifications are subject to change without prior notice

EZ Stand

Optional Items









Rotary Attachment



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SER RADIATION -

DANGER

630~680nm 790~820nm

Authorized Dealer







- ▶ Field proven U.S. scan head and UK fiber laser components
- ► Achieve 0.1mm character height with perfect TEM00 beam mode
- ▶ Multiple waveform are available for sophisticated marking and micro-machining applications
- G-Mark Library (optional) software features customized programming, mark on fly and tiling marking
- ▶ Ideal solution for ABS, PC, PET, wafer, rubber and metal marking

aserPro

Application

Two-Point Focus Finder

Two-Point Focus Finder is

StellarMark IFII series. It

helps you to quickly find the

correct focus distance with

standard feature for

▲ Wobble Marking

00010

LaserPro 10000

20000

LaserPro

30000

ease.







StellarMark I-Series

Design in top-notch U.S. scan head and U.K. fiber laser source, StellarMark I series provides industrial users superior and reliable output quality under long-term operation. From automotive parts and tools to electronic switch and wafer, StellarMark I series provides comprehensive solution for diverse requirements.

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.



Waveform

Multiple waveforms are available for the all IFII series further enabling you to make use of 2 (RMZ) or 25 (SHS/HHS) 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.





IFII 20RMZ / IFII 30RMZ /

IFII 50RMZ / IFII 20SHS /

IFII 40HHS

Superior Text Function

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



▲ Jump Cross Marking

▲ Barcode Marking



 Automatic Serial Marking
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Depth Marking

Glass Marking Color Marking

Key Switch

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

Emergency Stop

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



Preview Mode

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

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.

1234567890 123456785

▲ Arc Marking











Keypad Marking

Wafer Marking

IC Marking





Mark On Fly (Optional)

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





Full Path

▲ Outline



Laser Marking System