26500969G(04)

StellarMark I-Series Specifications

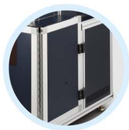
Model		I-Series			
Model No.		IFIIS 20JFL	IFIIS 30JFL	IFIIS 50JFL	IFIIS 60JFL
Laser Type	Wavelength	1064 nm			
	Type	Yb-doped, MOPA			
	Output Power	20W	30W	50W	60W
	Beam Mode	TEM00			
	Beam Quality (M^2)	<1.5	<1.5	<1.5	<1.8
	Frequency	1-600 kHz	1-1000 kHz	1-600 kHz	1-400 kHz
	Waveform	Single	Single	Single	Single
	Cooling	Air-cooled			
Max. Linear Marking Speed		3,000 mm/s			
Max. Marking Speed		10,000 mm/s			
Electrical Requirement	Power Supply	100~240V, 50/60 Hz Max 15 Amp			
	Power Consumption	Max. 1650W			
Dimensions	Laser head	L 497 x W 168 x H 152 mm			
	Control unit	L 470 x W 360 x H 241 mm			
Laser Head Weight		9 Kg			
Control Unit Weight		25 Kg			
Operating System		Microsoft Windows 2000 / XP / Vista(32/64 Bit) / 7(32/64 Bit) / 8(32/64 Bit) (Desktop or Laptop PCs)			
Environment	Temperature	15° C ~ 35° C			
	Humidity	10 ~ 80%, Non condensing			
Safety		Class 4 (EN60825-1 Class 1 available with safety shield and LFC) 2006/42/EC Machinery Directive) 2014/35/EU Low Voltage Directive 2014/30/EU Electromagnetic Compatibility Directive			

Scan Lens Specifications

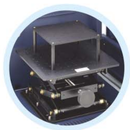
Specifications	StellarMark IFIIS 20/30/50/60JFL Scan Lens			
Model No.	70	110	180	300
Working Area	70 x 70 mm	110 x 110 mm	180 x 180 mm	300 x 300 mm
Spot Size*	27 µm	44 µm	71 µm	114 µm
Working Distance	142 ±1 mm	220 ±2 mm	350 ±2 mm	553 ±3 mm
Repeatability**	0.03 mm	0.03 mm	0.04 mm	0.06 mm

Above specifications are subject to change without further notices. See dealer or visit http://www.GCCworld.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 60JFL
Δ Specifications are subject to change without prior notice

Optional Items


Mounting Platform

LFC II


Adjustable Z-axis Table

Rotary Attachment

EZ Stand

LASER RADIATION –
AVOID DIRECT EYE EXPOSURE
CLASS 4 LASER PRODUCT
LASER DIODE 5mW MAX
OUTPUT AT 630~680nm
Classified by EN 60825-1:1994+A1:2002+A2:2001 LASER APERTURE

DANGER
LASER RADIATION - AVOID DIRECT EYE EXPOSURE
λ Max Power
630~680nm 5.0mW
790~820nm 1.0W
1064 nm 1.0W
CLASS 4 LASER PRODUCT

Authorized Dealer

www.GCCworld.com

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GCC China No.1, Chen Feng Road, Yushan, Kunshan, Jiangsu 215300, China 86-512-5726-1515 Fax : 86-512-5726-1518
GCC Europe B.V. Eglantierbaan 43-45, 2908 LV, Capelle a/d IJssel, The Netherlands 31-10-458-9367
GCC America, Inc 20453 E Valley Blvd. Walnut, CA 91789, USA 1-909-718-0248 Fax : 1-909-718-0251
US & Canada Only Toll Free: 1-888-284-5211

GCC LaserPro

- 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

Laser Marking System

Application

Depth Marking

Color Marking

Glass Marking

Keypad Marking

Wafer Marking

IC Marking

StellarMark I-Series

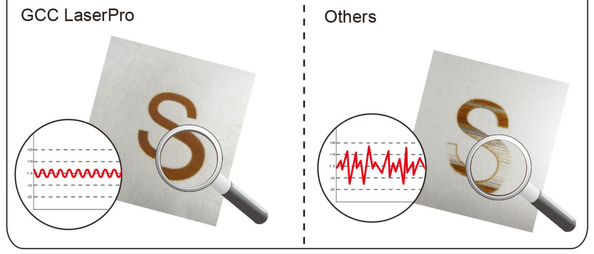
Design in top-notch U.S. scan head and U.K. fiber laser source, StellarMark I series provides industrial users superior and reliable output quality under long-term operation. From automotive parts and tools to electronic switch and wafer, StellarMark I series provides comprehensive solution for diverse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

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.

▲ IFIIS 20JFL / 30JFL / 50JFL/ 60JFL

Consistent Power Stability



Key Switch

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

Emergency Stop

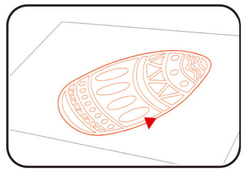
The machine can be entirely shut down by pressing the "**Emergency Stop**" button from controller when any emergency occurs.

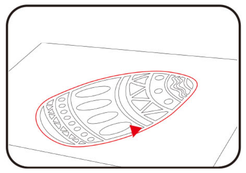
Pyramid Focus Tool

The innovative and patented pyramid focus tool is an accessory unit for providing the best working distance on StellarMark IFIIS series.

Preview Mode

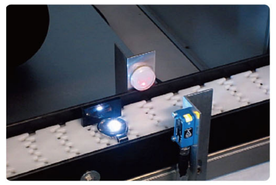
Variable speed, red dot pointer "**preview**" mode allows for accurate and easy marking positioning on the marked part.


▲ Full Path


▲ Outline

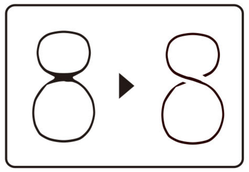
Mark On Fly (Optional)

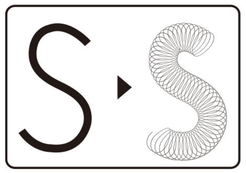
An optional software function that features marking of moving objects on a conveyor.



Superior Text Function

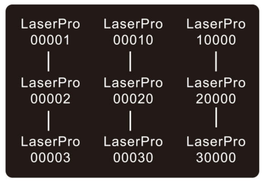
- Automatic Serial Marking
- Barcode Marking
- Wobble Marking
- Jump Cross Marking
- Font Variation
- Logo and Image Marking
- Arc Marking


▲ Jump Cross Marking

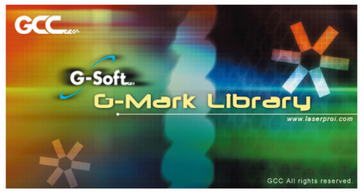

▲ Wobble Marking

▲ Arc Marking

▲ Barcode Marking



▲ Automatic Serial Marking

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.