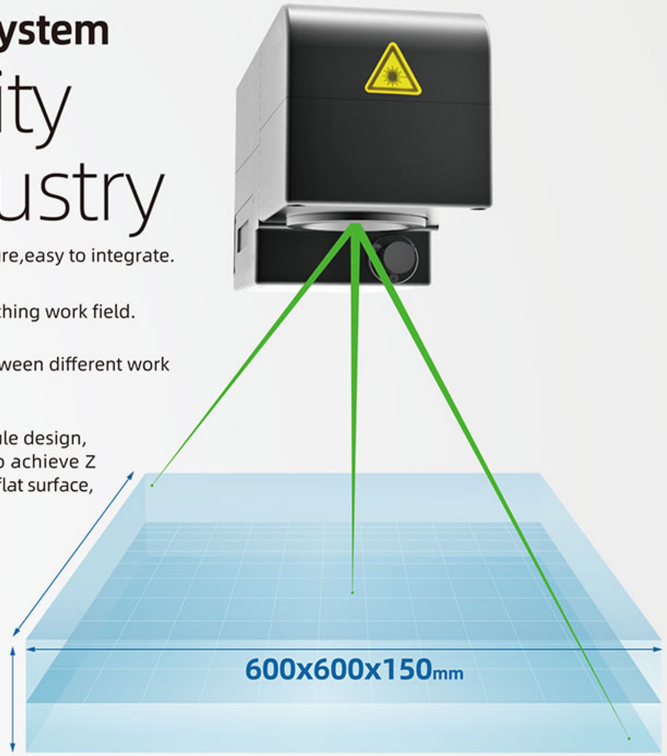
3D FR10-G

Support wavelength: 532nm

3D Dynamic Focus System

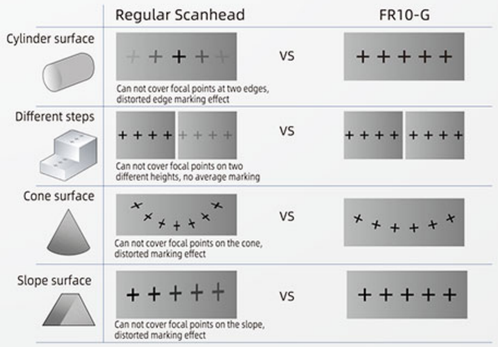
Entry priority for the industry

- CNC shell,dust prevention,compact structure,easy to integrate.
- Focal length data preservation when switching work field.
- The adjustment knob is used to switch between different work fields without replacing any parts.
- Double driving Z axis dynamic focus module design, response frequency≥100HZ@±10°,easy to achieve Z depth150mm@300mmx300mm,applied to flat surface, 3D surface high speed processing.



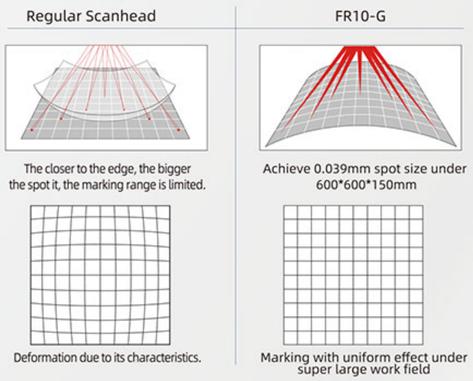
3D Surface Processing

The FR10-G applies dynamic focus control technology, breaks the limitation of traditional marking, and can do no distortion marking in the large-scale surface, 3D surface, steps, cone surface, slope surface and other objects.



Achieve 600x600x150mm curved surface application

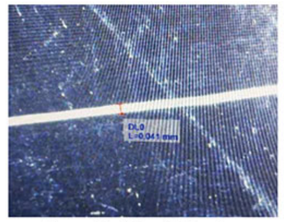
Through the 3rd axis control to reach larger work field, smaller spot size.



Application Highlight

APPLICATIONS

- Large field marking
- Glass coating removing
- 3D marking
- PCB marking



Laser Scribing（Glass）

Product Technical Information

	Technical Info.	Specifications					
Items	Output Voltage(VDC)	±15					
	Current(A)	10A					
	Protocol	XY2-100 Protocol					
	Weight（KG）	7					
	Size(mm)	292*115*152.8					
Optical Specifications	Aperture Size(mm)	10					
	Input beam diameter(mm)	6.5					
Galvanometer Specifications	Product line	Pro			P2		
	Scan Angle(°)	±10			±10		
	Repeatability(μrad)	8			5		
	Max.Gain Drift(ppm/k)	100			50		
	Max.Offset Drift(μrad/k)	30			15		
	Long-term drift over 8h(mrad)	≤0.3			≤0.1		
	Tracking Error(ms)	≤0.13			≤0.13		
	Max.processing speed(characters/s)	600@100x100			600@100x100		
Working Field & Spot Diameter	Working Field(mm)	125×125×40	200×200×120	300×300×150	400×400×150	500×500×150	600×600×150
	The Min.Spot Diameter@1/e²(mm)	0.015	0.023	0.031	0.040	0.0496	0.059
	Focal length(mm)	144	234	354	474	594	714