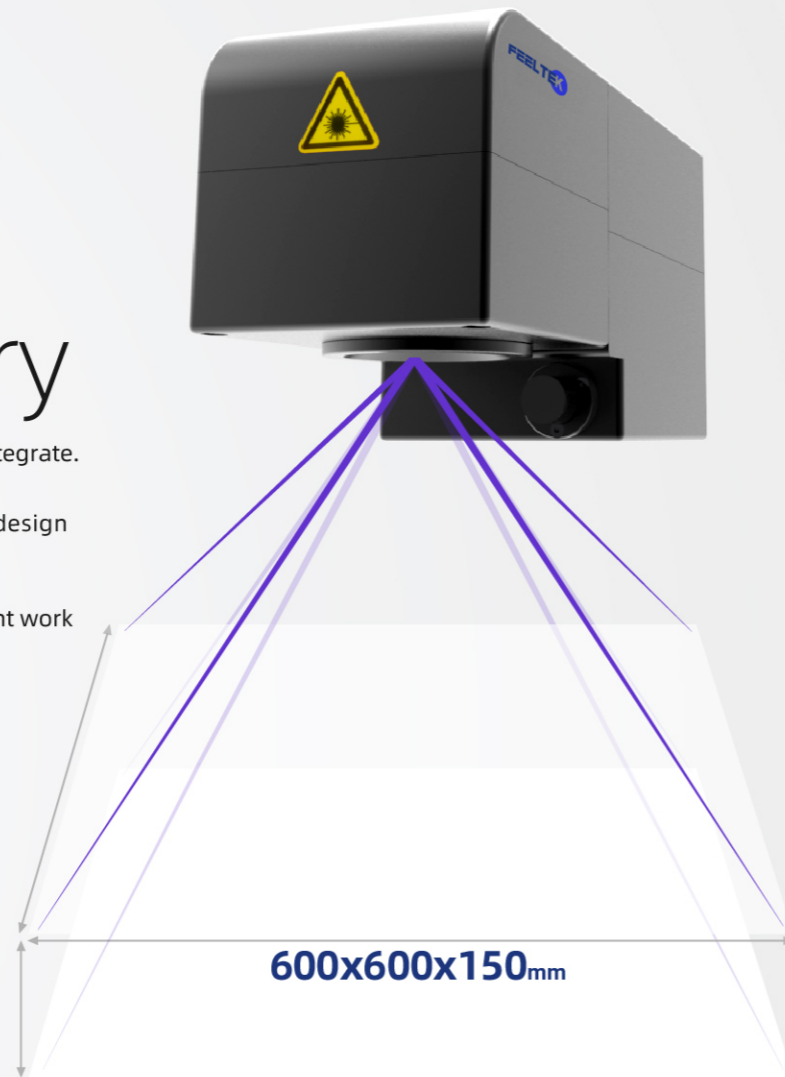


10 FR10-U(U10)

Support wavelength: 355nm

3D Dynamic Focus System Entry priority for the industry

- CNC shell,dust prevention,compact structure,easy to integrate.
- Integrated structure, dust prevention, and shielding design without space limitation, very easy to integrate.
- 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 $\geq 100\text{HZ}$ @ $\pm 10^\circ$,easy to achieve Z depth 150mm @ $300\text{mm}\times 300\text{mm}$,applied to flat surface, 3D surface high speed processing.



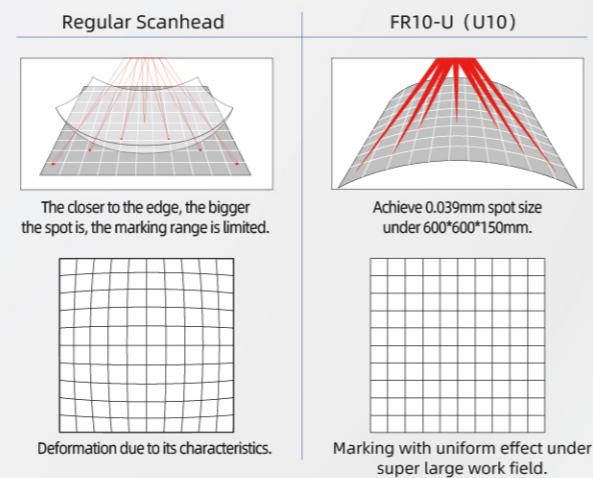
3D Surface Processing

The FR10-U (U10) 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.

	Regular Scanhead	VS	FR10-U (U10)
Cylinder surface	Can not cover focal points at two edges, distorted edge marking effect		+ + + + +
Different steps	Can not cover focal points on two different heights, no average marking		+ + + + +
Cone surface	Can not cover focal points on the cone, distorted marking effect		+ + + + +
Slope surface	Can not cover focal points on the slope, distorted marking effect		+ + + + +

Achieve 600x600x150mm curved surface application

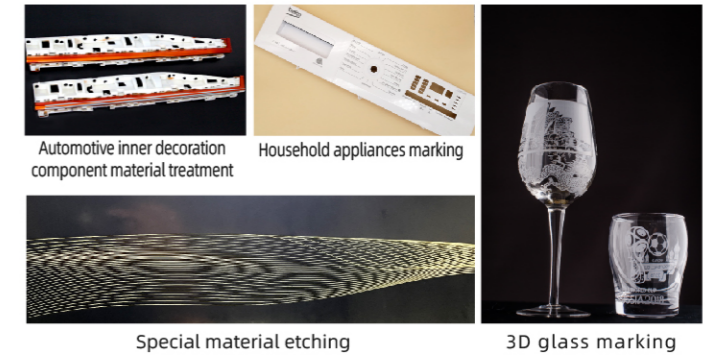
Through the 3rd axis control to reach larger work field, smaller spot size.



Application Highlight



- Large field marking
- Curved surface etching
- 3D marking
- PCB marking



Product Technical Information

Technical Info.		Specifications					
Items	Input Voltage(VAC)	100V60HZ / 220V50HZ					
	Output Voltage(VDC)	$\pm 15\text{VDC}$					
	Current(A)	5A (2sets)					
	Output Interface	XY2-100 Protocol					
	Input Interface	Communication interface USB					
	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	Standard	Pro	P2			
	Scan Angle($^\circ$)	± 10	± 10	± 10			
	Repeatability(μrad)	8	8	5			
	Max.Gain Drift(ppm/k)	100	100	50			
	Max.Offset Drift($\mu\text{rad}/\text{k}$)	30	30	15			
	Long-term drift over 8h(mrad)	≤ 0.3	≤ 0.3	≤ 0.1			
	Tracking Error(ms)	≤ 0.18	≤ 0.18	≤ 0.18			
	Max.processing speed(charaters/s)	600@400x400	600@400x400	600@400x400			
	Working Field & Spot Diameter	Working Field(mm)	125x125x40	200x200x120	300x300x150	400x400x150	500x500x150
The Min.Spot Diameter@ $1/e^2$ (mm)		0.010	0.015	0.022	0.026	0.033	0.039
Focal length(mm)		144	234	354	474	594	714

