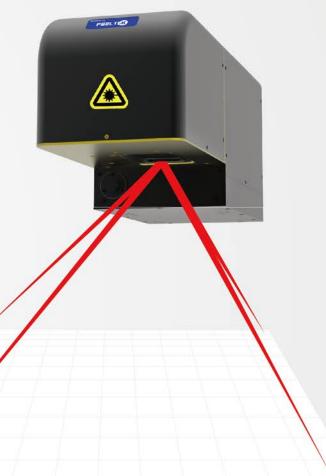
High-end industry application

Regular large field processing

- · Optional water cooling design, it can be applied to high-temperature drift requirements.
- · Double driving Z axis dynamic focus module design, response frequency≥100HZ@±10°.
- According to application requirements and integration space, there are curved version, large field version, and multiple mechanical design options.

• The optional off-axis CCD module, applicated in positioning marking in moving line.



800x800mm



FR30-C Linear Beam Standard system.



FR30-C Folded Beam(Left-Right) Specific for ODM integration in space limited workshop.



FR30-C compact

Better heat dissipation, compact structure, suitable for high temperature and space limited workshop.

High light application: 3D printing

FR30-C applies with the dynamic focus system control, it can be applicated in SLS, SLM.



High Precision

As the number of processing layers increases, the dynamic axis coordinately adjust the focus and adjust the spot in real-time. The minimum spot of FR30-C can directly reach 0.11mm.



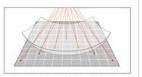
High Efficiency

To improve higher processing efficiency, FEELTEK develops the multi-scanheads solution, as well as its corresponding platform.

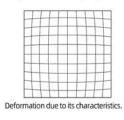
Flexible large field processing

Through the dynamic focus system control, it can be operated from 300*300mm to 1200*1200mm work field.

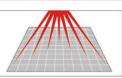
Regular Scanhead



The closer to the edge, the bigger the spot is, the marking range is limited.

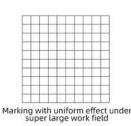


FR30-C



FEELTEK

achieve 1200*1200mm work field



Application Highlight



- Laser cutting
- Laser marking
- Cleaning
- · High speed fly processing
- 3D application
- 3D printing
- Laser scribing
- Filming
- Curved surface moving line marking



Moving line marking (Yoga mat)



Large field marking (Jeans)



Leather marking



Jeans laser marking



3D printing

17

FR30-C

Support wavelength:10640nm、10200nm、9400nm

Product Technical Information

	Technical Info.	Specifications							
Version		FR30-C Linear Beam	FR30-C Folded Beam	FR30-C Compac					
Items	Output Voltage(VDC)	±24	±24	±15					
	Current(A)	10A	10A	10A					
	Protocol	XY2-100 Protocol	XY2-100 Protocol	XY2-100 Protocol					
	Weight (KG)	15	21	13.5					
	Size(mm)	538*200*242.5	528*200*206	422*145*163					
Optical Specifications	Aperture Size(mm)	30	30	30					
	Input beam diameter(mm)	7.5、9	7.5、9	7.5、9					

	Product line	Standard	Pro	P2
	Scan Angle(°)	±11	±11	±11
	Repeatability(µrad)	8	8	5
Galvanometer Specifications	Max.Gain Drift(ppm/k)	100	100	50
	Max.Offset Drift(µrad/k)	30	30	15
	Long-term drift over 8h(mrad)	≤0.2	≤0.2	≤0.1
	Tracking Error(ms)	≤0.44	≤0.44	≤0.44
	Max.processing speed(charaters/s)	350@300×300	350@300×300	350@300×300

FR30-C Linear Beam

Working Field & Spot Diameter	Working Field(mm)	300×300x100	400×400x120	0 500×500x120	0 600×600x120	750×750x150	800×800x150	1200×1200	1600×1600
	The Min.Spot Diameter@1/e2(mm)	0.230	0.280	0.330	0.390	0.460	0.490	Customize	d version
	Focal length(mm)	366	466	566	676	838	936	Custofffize	u version

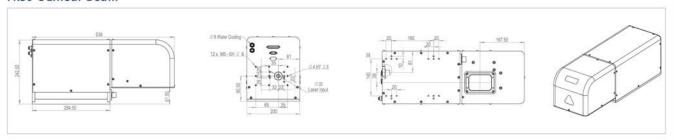
FR30-C Folded Beam

Working Field & Spot Diameter	Working Field(mm)	300×300	400×400	500×500	600×600	750×750	800×800	1200×1200 1600×1600
	The Min.Spot Diameter@1/e²(mm)	0.230	0.280	0.330	0.390	0.460	0.490	Customized version
	Focal length(mm)	362.5	462.5	562.5	672.5	834.5	932.5	Custoffilzed version

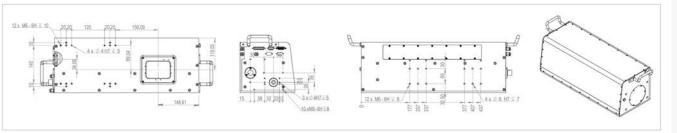
FR30-C Compact version

Working Field — & Spot Diameter	Working Field(mm)	100x100x30	200×200x60	300×300×100	400×400x120	500×500x120	600×600x120	1200×1200
	The Min.Spot Diameter@1/e²(mm)	0.110	0.160	0.210	0.270	0.320	0.360	Customized
	Focal length(mm)	171	271	371	471	571	681	version

FR30-C Linear Beam



FR30-C Folded Beam



FR30-C Compact

