

Pico 3P-THG Standard Technical Specifications (*)

(Rev01 July 2014)

Parameter	Pico 3P-THG
Laser	
Type	THG-YAG laser amplifier
Max Pulse Energy (microJ/pulse)	30
Pulse Duration (ps)	< 8
Typical Average Optical Power @ 100 kHz (W)	Up to 3 W
Pulse Repetition Frequency (kHz)	0 to 1000 **
Operation Wavelength (nm)	355
Laser Cooling	Chilled Water, W to W or W to A ***
Beam Delivery	
Type	High stability, high performance water cooled scanhead
Optics focal (mm)	56 or 100 or 160
Repeatability (μm , 100 mm focal)	< 0.04
Gain error (μm , 100 mm focal)	< 0.025
Axes	
Type	X-Y stage with integrated axes, Z axis on top
Drive	Linear motors
Working Area (mm x mm)	200 x 200
Accuracy (μm)	< +/- 0.2
Unidirectional repeatability (μm)	< 0.05
Maximum speed (mm/s)	1000
Maximum acceleration (mm/s^2)	2000
Vision	
CCD1 Camera magnification	1x
CCD2 Camera magnification	8x
Illumination	Coaxial and bar LED
Alignment	Pattern targetting
System (Generic Information)	
Warm up time (min)	< 20
Mains Requirement (V)	230 +/- 10%
Manual Opening	Standard
Storage Temperature Range ($^{\circ}\text{C}$)	+10 to +50
Operating Temperature Range ($^{\circ}\text{C}$)	+15 to +35
Relative Humidity (%)	15 to 80
System Weight (kg)	850
System Power Consumption (W)	4500
Dimensions WxHxD (mm)	2000x1600x1400

* (Specifications subject to change without notice)

** (Optimised in the range 100-500 kHz, or 400-1000 kHz)

*** (Close Circuit Chiller)