Flyer 3D Scan Head

Complete 3-axis scan head solution for fast, easy integration



- Servo-driven z-axis increases field sizes, up to 914 mm x 833 mm (36" x 33") while maintaining small spot sizes for enhanced detail and throughput
- Pre-aligned and calibrated sub-assembly customized to suit your application needs and desired field size
- Easier job setup with built-in diode pointer and adjustable focal plane to accommodate varied part thicknesses and heights
- Intuitive design and control with included WinMark[™] Pro software package
- Built-in Ethernet and I/O interfaces allow the scan head to be controlled via computer (tethered) or operate indendently (standalone)
- Static or dynamic tracking modes enable easy integration into a custom processing station or onto full production lines



WinMark[™] Pro Software

Custom software designed by Synrad to operate our scan heads. Files can be created in the software itself, or imported from your favorite design software. Each object within the design can be assigned unique parameters to optimize application performance and allow many processes (marking, cutting, engraving, and others) to be performed in a single job file. WinMark can also be used to prepare the scan head for static or dynamic on-the-fly operation.



Specifications

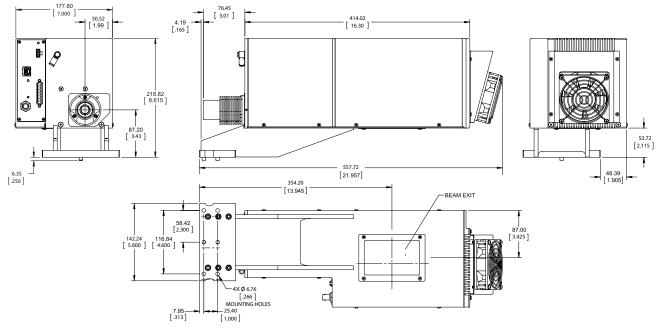
Performance							
Performance	260 x 227 to 014 x 222						
Field Size mm (inches)	269 x 227 to 914 x 833						
	(10.6 x 8.9) to (36 x 33)						
Spot Size 1/e ² (µm)	165 - 688						
Working Distance [,] Range mm (inches)	268 - 1101 (10.5 - 43.3)						
Scan Speed, mm/s (inches/s)	7620 (300) - 15240 (600)						
Operation							
Operating Temperature Range	0 to 40° C						
Humidity	0 - 95%, non-condensing						
Electrical Input	48 VDC <u>+</u> 2.0 VDC, 6.7 A, 20 A Peak						
Heat Load, generated by the head	320 W nominal, 400 W max						
Inbput Beam Wavelength	9.3 μm - 10.8 μm						
Continuous Beam Input Power	500 W						
Physical							
Dimensions w/ mounting bracket LxWxH inches (mm)	558 x 191 x 280 (21.9 x 7.5 x 11.1) - all others 580 x 191 x 280 (22.8 x 7.5 x 11.1) - p Series						
Weight kg (lbs.)	9.7 (21.45)						
Communication							
Tethered: PC control and mark file creation	WinMark, ActiveX						
Standalone: allows API, PLC, PC or I/O control	ActiveX, Modbus I/P, Master Control File						
I/O	8 inputs/8 outputs Built-in user accessible 15 V power source						





Flyer 3D Scan Head

Technical Illustrations dimension are in mm (inches)



Dimensions Marking head, Synrad CO₂ laser (30 - 400 W) and mounting rail

Dimensions for Flyer 3D System Pairings - mm (inches)								
	v30	ti Series	p100	p150	p250	f201	i401/p400	
L	1022.21	1250.01	1272.75	1481.58	1913.28	1913.28	1914.08	
	(40.24)	(49.21)	(50.11)	(58.33)	(75.33)	(75.33)	(75.36)	
w	203.20	241.30	241.30	241.30	355.60	355.60	355.60	
	(8.00)	(9.50)	(9.50)	(9.50)	(14.00)	(14.00)	(14.00)	
н	231.52	231.52	293.24	293.24	263.40	263.40	429.54	
	(9.12)	(9.12)	(11.55)	(11.55)	(10.37)	(10.37)	(16.91)	



Contact Us synrad.com

Americas & Asia Pacific

Synrad 4600 Campus Place Mukilteo, WA 98275 P (425) 349.3500

F (425) 349.3667 synrad@synrad.com





Europe, Middle East, Africa

Novanta Europe GmbH Division Synrad Europe Parkring 57-59 D-85748, Garching, Germany P +49 (0)89 31707 0 F +49 (0)89 31707 222

sales-europe@synrad.com

China

Synrad China Sales and Service Center Unit C, 5/F, Ting Wei Industrial Park Liufang Road, Baoan District, Shenzhen Guangdong, PRC 518133

P +86 (755) 8280 5395 sales-china@synrad.com

Japan

Novanta Japan Co., Ltd. 4666 Ikebe-cho Tsuzuki-ku Yokohama Kanagawa 224-0053 Japan

P +81 3 5753 2462 F +81 3 5753 2467 sales-japan@synrad.com



SYNRAD[®] is a registered trademark of Novanta Corporation. Copyright ©2018 Novanta Corporation. All rights reserved. Specifications subject to change without notice.