

# **ALTA** SERIES

**Picosecond Industrial Lasers** 

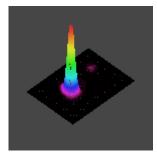
## applications.

Polymer Processing/Machining High-Speed Precision Micromachining Semiconductor/PV Processing/Wafer Scribing Sapphire Scribing, Drilling & Dicing Microfluidics **Pulsed Laser Deposition** Injector Nozzle Drilling 160 先锋科技 Thin-Film, Solar Cell Structuring Glass Welding, Sub-Surface Marking & Micromachining Metal Processing Ceramic Micro-Processing Micro-Via Drilling



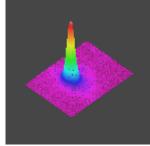
### features & benefits.

Available in IR, GR & UV Wavelengths Up to 10W Average Power\* Excellent Beam Quality of M2 < 1.3\* Highly Reliable Design Simple, Intuitive Control Features Pulse Durations of ~ 8 ps Flexible Output Options **Burst Mode Option** Lowest Cost of Ownership in the Industry

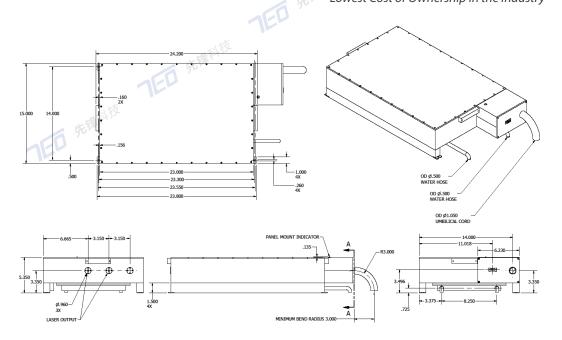


Medical Device Manufacturing

532 BEAM PROFILE\*



1064 BEAM PROFILE\*



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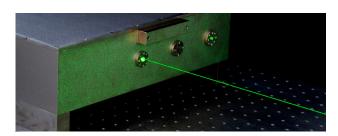
## **ALTA** SERIES

**Picosecond Industrial Lasers** 

SPECIFICATIONS*	ALTA-PS-1064-10W	ALTA-PS-532-5W	ALTA-PS-355-3W
Wavelength <sup>1</sup>	1064 nm	532 nm	355 nm
Average Power <sup>2</sup>	10W	5W	3W
Pulse Repetition Rate <sup>3</sup>		100-1000 kHz	
Beam Quality (M²)	大道**	<1.3	
Spatial Mode	areD "	TEM00	
Beam Roundness		>85%	
Pulse Width (ps)		7 ± 2	
Pulse Energy (µJ @ 100kHz)	>40	>30	>20
Pulse-to-Pulse Stability <sup>4</sup>	<2% RMS	<2% RMS	<3% RMS
Average Power Stability <sup>4</sup>	<1% over 12 hours	<2% over 12 hours	<2% over 12 hours
Point Stability		20 μrad/°C	
Polarization Ratio	>100:1 LINEAR, HORIZONTAL	>100:1 LINEAR, VERTICAL	>100:1 LINEAR, HORIZONTAL
Communication Protocol <sup>5</sup>		RS-232	
Operating Voltage (VAC)		90-260	
Line Frequency (Hz)	JED .	50-60	
Cooling	CLOSED-LOOP WATER		
Operation Temperature	15° - 30° C		
Operation Humidity	20% - 80%		
Storage Temperature	-20° - 50° C		

## **Dimensions & Weight**

	DIMENSIONS (IN.)	WEIGHT (LBS.)
Laser Head	23 x 15 x 7	70
Laser Controller	14.5 x 19 x 7	20
Umbilical	100 inches / 2.5 meters (all lasers)	



#### Note:

- 1. Contact AOC for 266 nm wavelength.
- 2. Contact AOC for higher power lasers.
- 3. Contact AOC for high frequency.
- 4. Defined as standard deviation/average.
- 5. Contact AOC for USB II & Ethernet.

**COMPLIANCE:** CDRH, ROHS, CE

