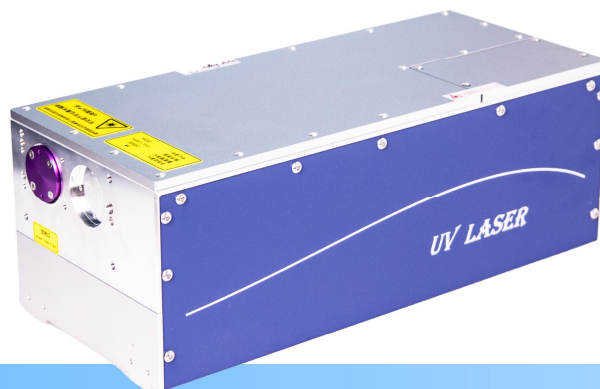


# UV Nanosecond Laser

## ZG SERIES

ZG-NS-355-10



The new ZG series adopts intra-cavity frequency doubling technology for applications in precision marking processes. With its superb cost performance, it is widely used in the extreme manufacturing field.

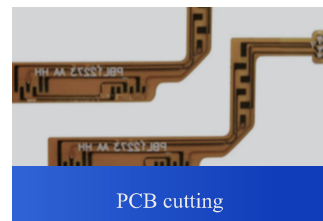
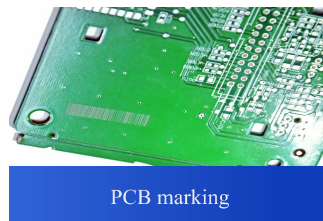
### ► Application

- Small size, light weight and price-competitive
- Opto-mechanical integration design
- EM<sub>00</sub> mode output
- Adjustable repetition rate

### ► Features

- High-end electronic products appearance logo
- PCB, EPC QR code marking
- Metal or non-metal plating removal
- Marking of air switches, low-voltage appliances (flame retardant materials)
- Food, PVC pipe, pharmaceutical packaging, cable wire (HDPE, PO, PP, etc.) material marking

### ► Sample Display



Technical Parameters

ZG-NS-355-10

Optical Parameters

Wavelength	355 nm
Max. Power	10 W@30 kHz
Repetition Rate	30 kHz~200 kHz
Pulse Width	20 ns-100 ns
Pulse Energy Stability (rms)	< 3% rms
Power Stability	< 2% rms

Beam Characteristics

Spatial Mode	TEM <sub>00</sub>
Beam Quality	M <sup>2</sup> < 1.3
Polarization Ratio	> 100:1 (horizontal)
Beam Diameter	1.1 mm ± 0.2 mm
Divergence Full Angle (1/e <sup>2</sup> )	< 2 mrad
Circularity	> 90%
Beam Pointing Stability	≤ ± 25 μrad/°C

Working Conditions

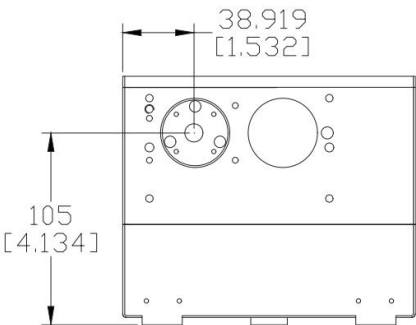
Power Supply	24VDC ± 1V; ≥300W switching power supply
Warm-up Time	Standby to ready < 10 minutes; cold start to readiness < 30 minutes
Temperature Range	15~30°C during working hours; 0~50°C during non-working hours
Temperature Range	10~70%, non-condensation
Cooling Requirements	Water cooling, cooling capacity ≥ 400W, accuracy ± 0.1°C, flow rate ≥ 6L/min

Physical Properties

Laser Dimensions	369.5 mm×160 mm×136 mm (L x W x H)
Laser Weight	11 kg

- ▶ All specifications are typical data and subject to change without notice due to product improvements.
- ▶ \*Recommended Chiller→Brand: HANSUN, Cool Model: HC002M1-02A.

Laser Dimensions (mm)

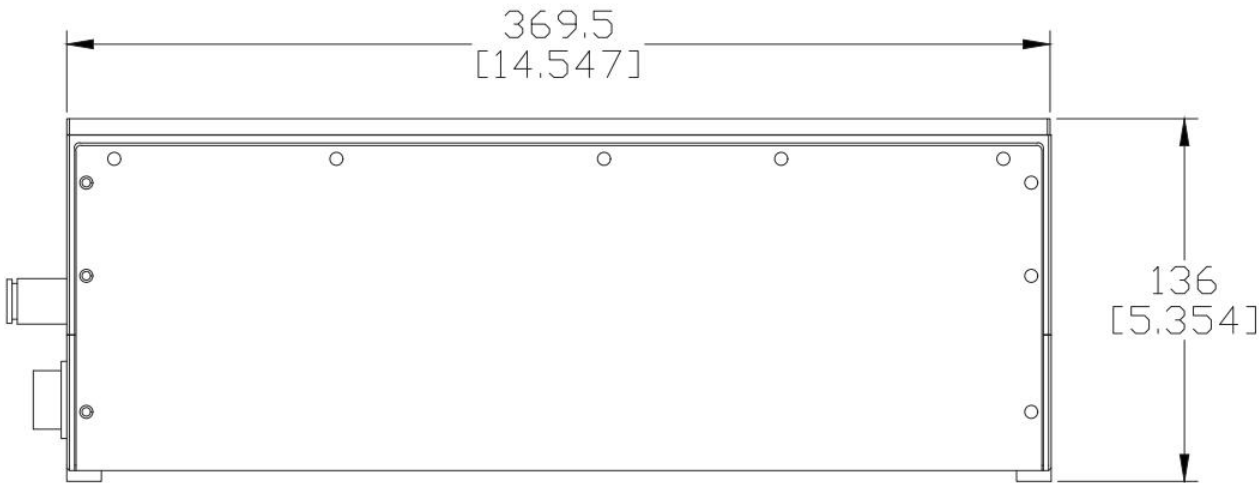


Front View



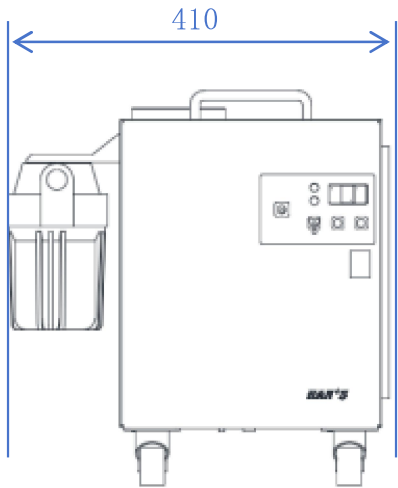
Top View

Side View

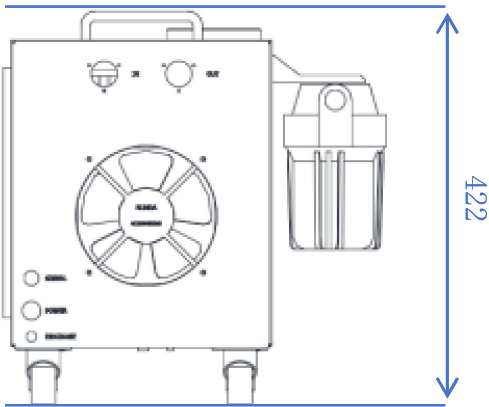


**Water Chiller Dimensions (mm)**

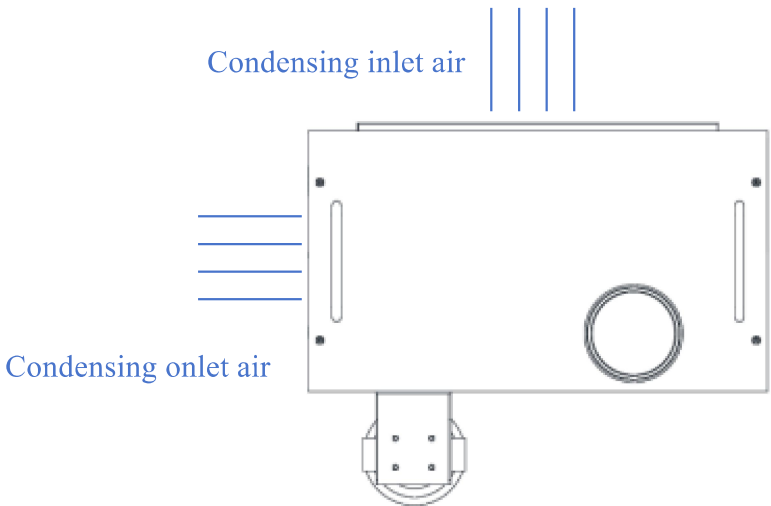
**HC004H-02A**  
270mm x 315mm x 305mm (L x W x H)



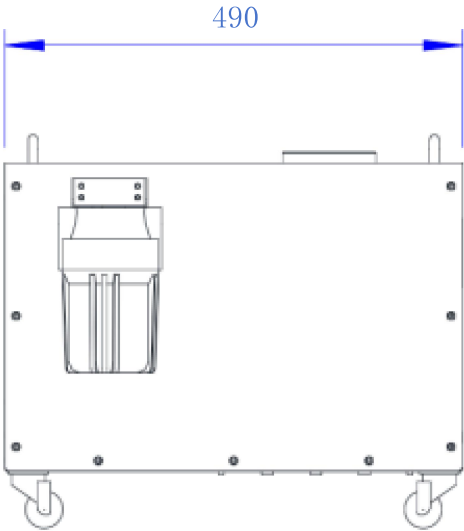
Front View



Back View



Top View



Side View