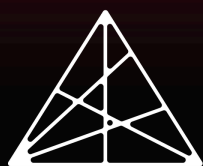




SUPER NOVA 16S - 250W IRADION CERAMIC RF + 100W MOPA



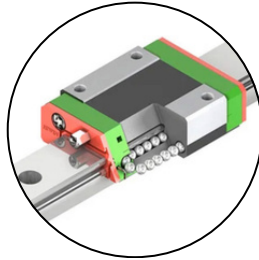
AEON
Laser USA

SUPER NOVA 16S REDLINE CO2 Laser Cutter & Engraver

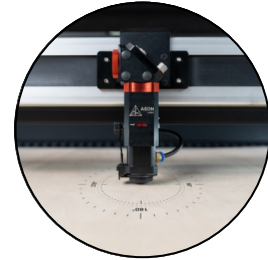
features:



15G ACCELERATION



HIWIN LINEAR RAILS



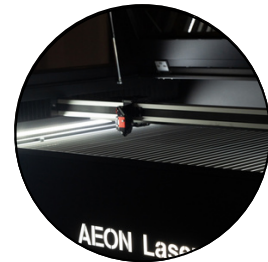
LIGHTWEIGHT LASER HEAD



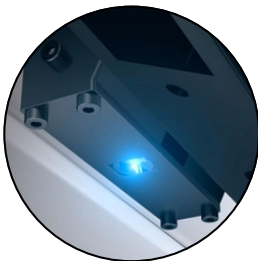
RIGID FRAME



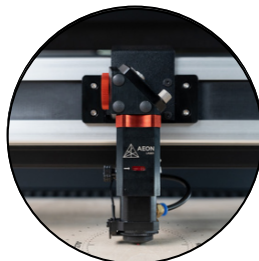
ALL-IN-ONE DESIGN



AEROSPACE ALUMINUM GANTRY



HD LID CAMERA

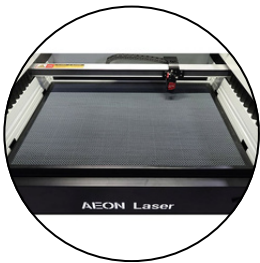


INTEGRATED AUTOFOCUS



MATERIAL PASS THROUGH

The SUPER NOVA 16S with a 250W Iradion Destiny Ceramic Core CO₂ RF tube and 100W MOPA fiber source is built for customers who do not compromise on performance, precision, or capability. The high-power ceramic RF tube delivers exceptional cutting speed, engraving precision, and long-term reliability on non-metal materials, while the 100W MOPA fiber laser enables deep engraving, high-speed marking, and color marking on metals. This premium dual-source configuration represents the pinnacle of versatility, throughput, and industrial-grade laser performance.



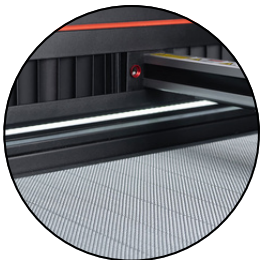
SUPER BRIGHT WORK AREA



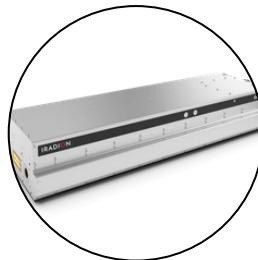
RBG STATUS LIGHT



INTUITIVE LCD DISPLAY



SAFE-GUARDED OPTICS



250W IRADION CO₂ TUBE



100W JPT MOPA SOURCE



BULLSEYE LEVELING GAUGE



**TOOLLESS MAINTENANCE
MIRRORS**



**TOOLLESS MAINTENANCE
LENS CARTRIDGES**

SUPER NOVA 16S

Measurements



Machine Dimensions
W 82-11/16" x D 59-1/16" x H 43-1/2"

Z-Axis Max Bed Travel
7-7/8"

Working Area
63" x 39-3/8"

Shipping Dimensions
W 85-7/8" x D 62-9/16" x H 48-1/4"

Machine Weight
1593 lbs.

Machine Weight + Crate
1681 lbs.

SUPER NOVA 16S - 250W IRADION CERAMIC RF + 100W MOPA

LASER SOURCES	
Ceramic RF Tube (Primary)	250W IRADION Destiny RF
MOPA Fiber Source (Secondary)	100W JPT MOPA
Cooling Method Ceramic RF	Water
Cooling Method MOPA Fiber	Air

MOTION & PRECISION	
Motors	AC Servos
Guide Rails	Hiwin Linear Rails
Max Acceleration	15G
Max Speed	5000mm/s
Minimum Font Size	1.0 x 1.0mm
Positioning Accuracy Max	<=0.01mm
Scanning Precision Max	2000 DPI
Red Dot Positioning	✓
Autofocus	Integrated
Wireless Remote Control	Included

COOLING, AIR ASSIST & VENTILATION	
Water Chiller	Built-in S&A 5200 Fan Cooled Chiller
Fume Exhaust Fan	Built-in 450W, 6" Dia. Axial
Air Assist	Integrated
Compressed Air	Built-in 13 Gallon Tank
Smart Air Solenoid Valve	✓

WORK TABLE	
Downdraft Ventilation	✓
Blade Table	✓
Honeycomb Table	✓
Material Collection Tray	✓
Material Pass Through Door	1.5" Height
Table Lifting Capacity	250 lbs

POWER REQUIREMENTS	
Voltage/Frequency	240v/60Hz
Amperage	30A Dedicated Circuit
Rated Power Draw	3,600W

SUPER NOVA 16S - 250W IRADION CERAMIC RF + 100W MOPA

CONTROL & SOFTWARE	
Control Panel	5" Keypad & LCD display
Memory Capacity	1 GB
Lightburn Software	Included (\$199 Value)
Wifi Data Transfer	Integrated
Operating System	Windows & Mac
Supported File Formats	AI/PDF/DXF/PLT/SVG/DXF/SC/BMP/JPEG/JPG/PNG/GIF/ TIFF/TIF/TGA

OPTICS	
Toolless Mirror Change	✓
Magnetic Lens Cartridge	✓
Isolated Optics	✓
Water Cooled Optics	✓
2" Lens	Optional
2.5" Lens	Standard
4" Lens	Optional
Mirror Sizes	φ 25mm (x4)
Beam Combiner	φ 25mm
Window	φ 20mm

SAFETY	
Safety Level	Class 1
Smart Monitoring	✓
Optics Temperature Alarm	✓
Diagnostic Log	✓
LED Status Light	✓
Lid Interlock	✓
Side Panel Interlocks Water	✓
Flow Protection Water	✓
Temperature Alarm	✓

ADD-ONS	
Rotary Chuck	Optional
Fume Extractor	Optional
Air Compressor	Optional

WARRANTY & SUPPORT	
2 Year	Included (www.aeonlaser.us/warranty)
4 Year	Optional



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WWW.AEONLASER.US