AEON LASER USA

The Aeon Redline Series is designed to maximize profits with its primary focus on increasing efficiency, versatility and ease of use, while simultaneously reducing downtime and overall maintenance.

	Model	NOVA10S	NOVA14S	NOVA16S
Size	Working Area	27-9/16" x 39-3/8" (700*1000mm)	35-7/16" x 55-1/8" (900*1400mm)	39-3/8" x 63" (1000*1600mm)
	Max Bed Travel	7-7/8" (200mm)	7-7/8" (200mm)	7-7/8" (200mm)
	Machine Dimensions	67" x 47-5/8" x 42-1/8" (1700*1210*1070mm) Includes 8" (200mm) Tube Extension	75-3/16" x 55-3/8" x 43-1/2" (1908*1405*1105mm)	82-11/16" x 59-1/16" x 43-1/2" (2100*1500*1105mm)
	Machine Weight	1014lbs (460kg) Elite 1036lbs (470kg) Super	1389lbs (630kg) Elite 1410lbs (640kg) Super	1521lbs (690kg) Elite 1543lbs (700kg) Super

		NOVA10S	NOVA14S	NOVA16S
Laser Source	DC Glass Tube	100W	100W/130W	100W/130W/150W
	RF Metal Tube	30W/60W (Super)	30W/60W (Super)	30W/60W (Super)
	RF Ceramic Tube	60W/100W/150W	60W/100W/150W	60W/100W/150W
	CO_2 Glass Cooling Method	Water	Water	Water
	RF Metal Cooling Method	Air	Air	Air
	RF Ceramic Cooling Method	Water	Water	Water

		NOVA10S	NOVA14S	NOVA16S
Performace	Motors	2-Phase High Speed DC Steppers (Elite) Leadshine AC Servos (Super) Clear Path DC Servos (Signature)	2-Phase High Speed DC Steppers (Elite) Leadshine AC Servos (Super) Clear Path DC Servos (Signature)	2-Phase High Speed DC Steppers (Elite) Leadshine AC Servos (Super) Clear Path DC Servos (Signature)
	Guide Rails	Hiwin Linear Guide Rails (Elite and Super) THK Linear Guide Rails (Signature)	Hiwin Linear Guide Rails (Elite and Super) THK Linear Guide Rails (Signature)	Hiwin Linear Guide Rails (Elite and Super) THK Linear Guide Rails (Signature)
	Max Acceleration	5G (DC)/8G (RF)/15G (Signature)	5G (DC)/8G (RF)/15G (Signature)	5G (DC)/8G (RF)/15G (Signature)
	Max Speed	1200mm/s (DC Glass) 4200mm/s (RF Metal) 5000mm/s (Signature)	1200mm/s (DC Glass) 4200mm/s (RF Metal) 5000mm/s (Signature)	1200mm/s (DC Glass) 4200mm/s (RF Metal) 5000mm/s (Signature)
	Minimum Font Size	1.0 x 1.0mm	1.0 x 1.0mm	1.0 x 1.0mm
	Positioning Accuracy	<=0.01mm	<=0.01mm	<=0.01mm
	Max Scanning Precision	1000 DPI	1000 DPI	1000 DPI
	Max Lifting Capacity	265lbs (120kg)	265lbs (120kg)	265lbs (120kg)

Model	NOVA10S	NOVA14S	NOVA16S
Configuration			
Water Chiller	Built-in S&A 5000 Vapor Compression Chiller	Built-in S&A 5200 Vapor Compression Chiller	Built-in S&A 5200 Vapor Compression Chiller
Fume Exhaust Fan	Built-in 500W, 6" Dia. Centrifugal Fan	Built-in 500W, 6" Dia. Centrifugal Fan	Built-in 500W, 6" Dia. Centrifugal Fan
Air Assist	Built-in 6.3 gal (24L) Air Compressor	Built-in 10.5 gal (40L) Air Compressor	Built-in 10.5 gal (40L) Air Compressor
Clean Pack Design	X,Y and Z	X,Y and Z	X,Y and Z
Autofocus	Integrated	Integrated	Integrated
Wifi Data Transfer	✓	✓	✓
Red Dot Positioning	✓	✓	✓
Material Pass Through Door	✓	✓	✓
Bullseye Leveling Guage	✓	✓	✓
Dimmable Overhead Lighting	×	×	×
Smart Air Solenoid Valve	✓	✓	✓
Modular Laser Tube Docking	✓	✓	✓
Lid Material	Polycarbonate	Polycarbonate	Polycarbonate

Table			
Downdraft	✓	✓	✓
Blade Table	✓	✓	✓
Honeycomb Table	✓	✓	✓
Material Collection Tray	✓	✓	✓

Control & Software			
Control Panel	5" Keypad & LCD display	5" Keypad & LCD display	5" Keypad & LCD display
Memory Capacity	1GB	1GB	1GB
Lightburn Software	✓	✓	✓
Compatible Software	CorelDraw, Photoshop, AutoCAD, InkScape, or any software that can export into the supported file formats	CorelDraw, Photoshop, AutoCAD, InkScape, or any software that can export into the supported file formats	CorelDraw, Photoshop, AutoCAD, InkScape, or any software that can export into the supported file formats
Operating System	Windows & Mac	Windows & Mac	Windows & Mac
Supported File Formats	AI/PDF/DXF/PLT/SVG/DXF/SC/BMP/JPEG/JPG/PNG/GIF/TIFF/TIF/TGA	AI/PDF/DXF/PLT/SVG/DXF/SC/BMP/JPEG/JPG/PNG/GIF/TIFF/TIF/TGA	AI/PDF/DXF/PLT/SVG/DXF/SC/BMP/JPEG/JPG/PNG/GIF/TIFF/TIF/TGA

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Optics

	NOVA10S	NOVA14S	NOVA16S
Toolless Mirror Change	✓	✓	✓
Magnetic Lens Cartridge	✓	✓	✓
Isolated Optics	✓	✓	✓
1.5" Lens	×	×	×
2" Lens	Optional	Optional	Optional
2.5" Lens	Standard	Standard	Standard
4" Lens	Optional	Optional	Optional
Mirror Sizes	φ25mm (Elite x3 / Super x5)	φ25mm (Elite x3 / Super x5)	φ25mm (Elite x3 / Super x5)
Beam Combiner	φ25mm	φ25mm	φ25mm
Protective Window	φ20mm	φ20mm	φ20mm

Safety

	NOVA10S	NOVA14S	NOVA16S
Safety Level	Class 1	Class 1	Class 1
Smart Monitoring	✓	✓	✓
Optics Temperature Alarm	✓	✓	✓
Diagnostic Log	✓	✓	✓
Fire Supression	Optional	Optional	Optional
LED Status Light	✓	✓	✓
Lid Interlock	✓	✓	✓
Side Panel Interlocks	✓	✓	✓
Water Flow Protection	✓	✓	✓
Water Temperature Alarm	✓	✓	✓

Power

	NOVA10S	NOVA14S	NOVA16S
Voltage/Frequency	110v/60Hz	110v/60Hz	110v/60Hz
Amperage*	20A Dedicated Circuit	20A Dedicated Circuit	20A Dedicated Circuit
Rated Power Draw	1400W (max wattage laser tube)	1400W (max wattage laser tube)	1400W (max wattage laser tube)

Package

	NOVA10S	NOVA14S	NOVA16S
Package Size	71-5/8" x 52" x 48-1/4" (1820*1320*1225mm) Includes 8" (200mm) Tube Extension	78-3/8" x 59" x 48-1/4" (1990*1500*1225mm)	85-7/8" x 62-9/16" x 48-1/4" (2180*1590*1225mm)
Packed Gross Weight (G.W)	1124lbs (510kg) Elite 1146lbs (520kg) Super	1455lbs (660kg) Elite 1477lbs (670kg) Super	1609lbs (730kg) Elite 1631lbs (740kg) Super

*240v 30 amp plug required for any RF 150w laser

Model	NOVA10S	NOVA14S	NOVA16S
Add-Ons			
Camera	✓	✓	✓
Smart Rotary	Optional	Optional	Optional
Multi Roller	Optional	Optional	Optional
Rotary Chuck	Optional	Optional	Optional
PiBurn or Rotoboss	Optional	Optional	Optional
Filtered Fume Extractor	Optional	Optional	Optional
Wireless Remote Control	✓	✓	✓
Air Compressor	✓	✓	✓

Warranty			
2 Year	✓	✓	✓
3 Year	Optional	Optional	Optional
4 Year	Optional	Optional	Optional

Pricing			
Customize your laser	Starting at $17995*	Starting at $20995*	Starting at $23995*

*Details and pricing are subject to change. Please refer to www.aeonlaser.us for the most current information.