

MISTRAL IR

Diode pumped Master Oscillator Power Amplifier laser system combining a short pulse microlaser with a rod-type fiber amplifier

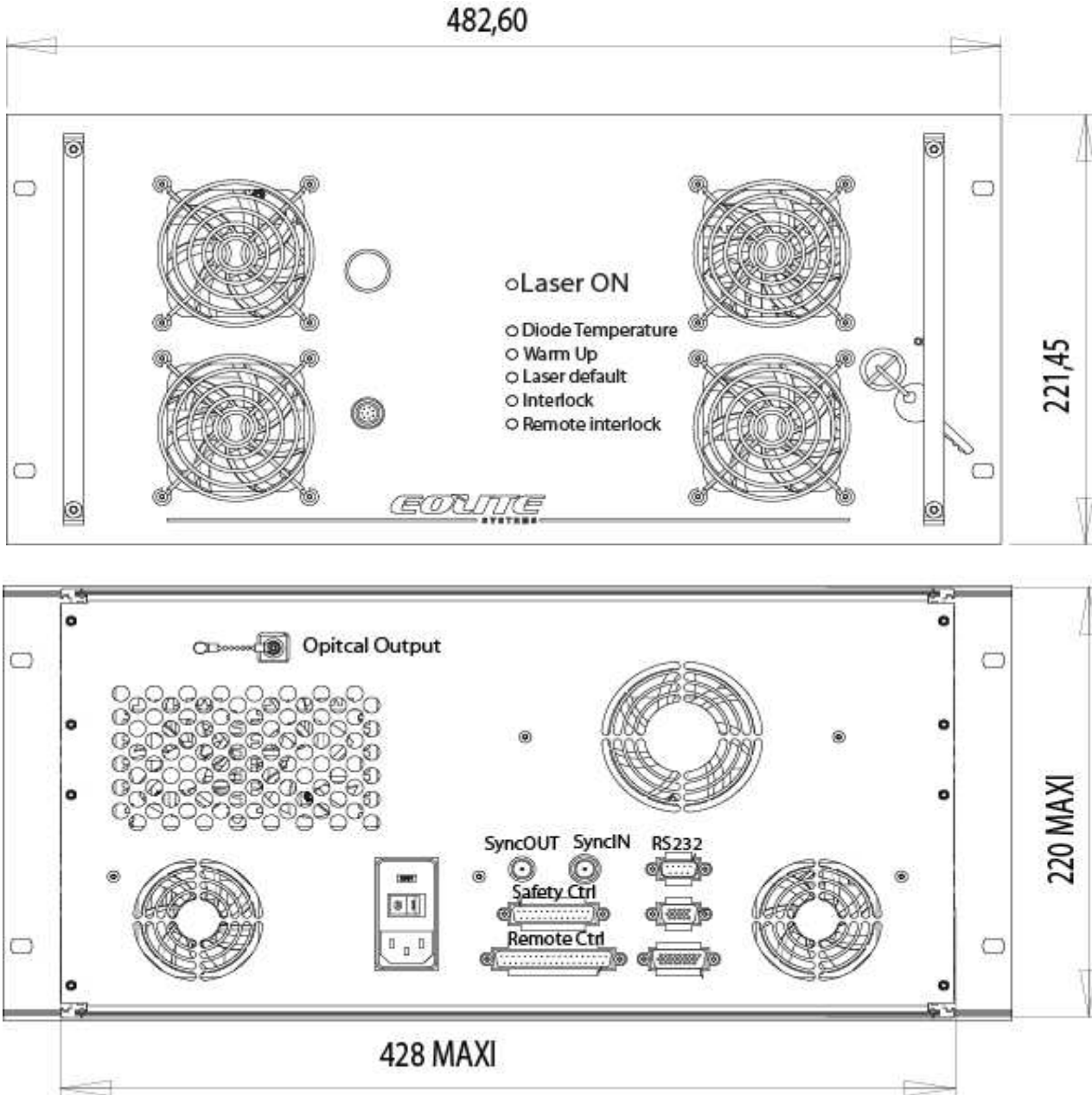
- 1064 nm
- < 1.6 ns
- 4 – 22 kHz
- > 300 µJ @ 15 kHz
- air cooled system



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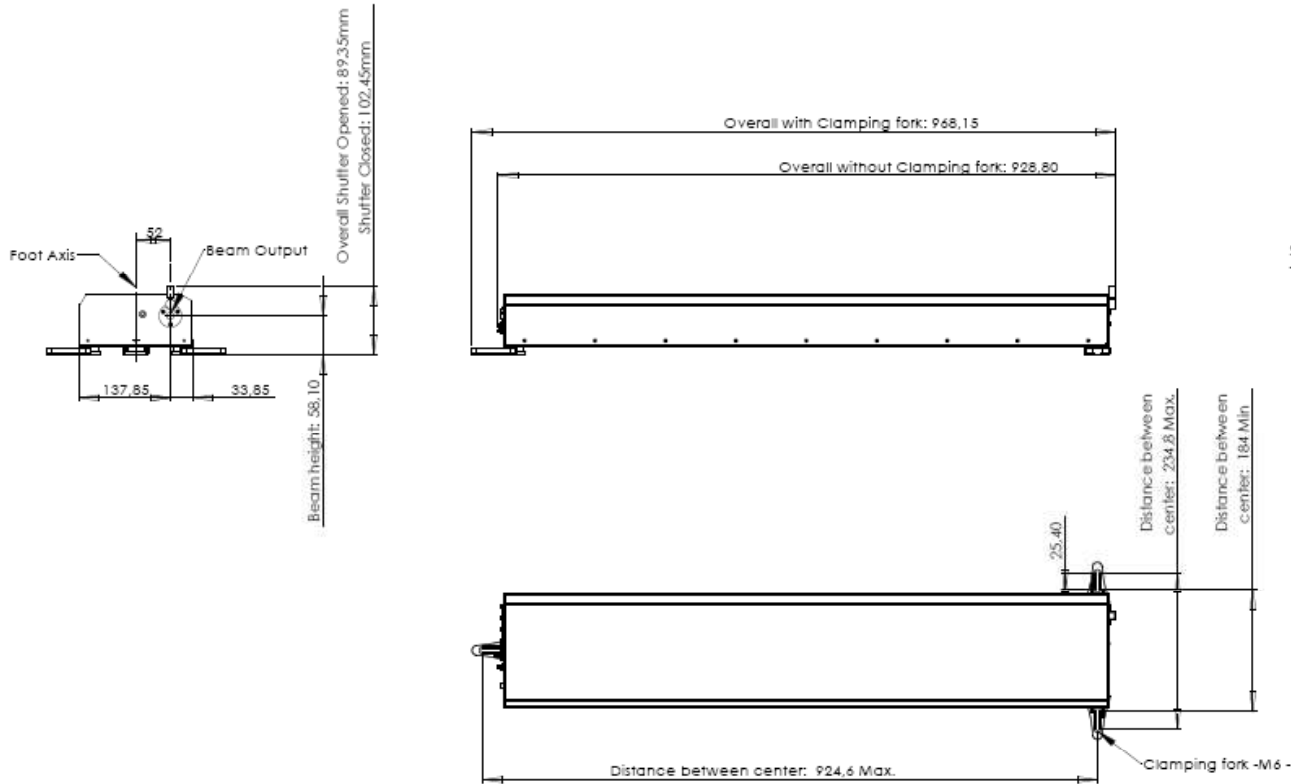
Optical Data	Wavelength	1064 nm	
	Pulse Repetition Rate	4-15 kHz	10-22 kHz
	Spatial Mode	TEM ₀₀	
	M ²	≤ 1.4	
	Beam Divergence (full angle)	< 1.5 mrad	
	Beam Ellipticity	< 1.2	
	Waist Diameter	1.1 mm	
	Beam Diameter	1.1 mm ± 0.1 mm (at laser exit)	
	Average Power	> 4.5 W @ 15kHz	> 4.4 W @ 22kHz
	Pulse Energy	> 300 µJ @ 15kHz	> 200 µJ @ 22kHz
	Pulse Width (FWHM)	≤ 1.6 ns	
	Polarization Ratio	> 100:1, vertical	
	Long term pulse energy stability (6 hrs)	< ± 3 %	
	Laser Classification	4 / IV	
Optical Output	Free Beam		
Electrical Data	Electrical Power Consumption	< 550 W	
	Line Voltage	90 - 265 V AC (50-60 Hz)	
Interface	TTL and RS 232 and Remote Control		
Miscellaneous	Warm-up Time	< 5 min	
	Operating Temperature	15 - 35 °C	
	Weight	Laser Head	15 kg
		Electronic Unit	22 kg
Options	Synchronization signal output (rise time < 2 ns)		

Laser Electronic Unit



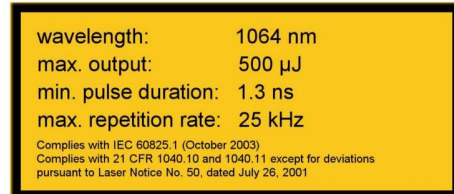
Front and back view of the Laser Electronic Unit
(length = 462mm)

Laser Head



Top and side view of the Laser Head

Laser Safety Labels



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MISTRAL laser family is a result of cooperation between

