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Gemini PIV Product Specifications

		Gemini PIV120-15	Gemini PIV 90-30	Gemini PIV 200-15
Repetition Rate (Hz)		**15**	**30**	**15**
Energy[1] (mJ)				
	532 nm	120	90	200
Single Head	355 nm[5]	35	30	NA
	266 nm	25	15	NA
Energy Stability[2] (±%)				
	532 nm	4	5	5
Single Head	355 nm[5]	7	10	NA
	266 nm	8	11	NA
Beam Diameter (mm)		4.5	4.5	5.5
Pulse Width[3] (ns)		3-5	3-5	3-5
Divergence[4] (mrad)		< 2	< 2	< 2
Beam Pointing Stability (urad)		< 200	< 200	<200
Jitter (±ns)		0.5	0.5	0.5

No Attenuator available

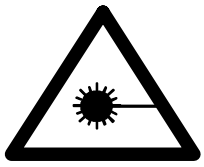
1. Optical losses due to optional attenuator will reduce maximum energy by 10%. Optical attenuator is not available for Gemini 200.
2. Pulse-to-pulse for 98% of shots after 30 minute warm up
3. Full width half maximum
4. Full angle for 86% of the energy, at $1/e^2$ point
5. For single head operation. Only one laser head may be optimized for 355 nm.

Physical Characteristics

	Laser Head	Power Supply (2 ea)	Control Panel (2 ea)
Length	16.31” / 41.44 cm	19.0” / 48.3 cm	6.0” / 15.2 cm
Width	8.25” / 20.96 cm	8.6” / 21.8 cm	8.1” / 20.6 cm
Height	3.38” / 8.57 cm	15.0” / 38.1 cm	3.5” / 8.9 cm
Weight	14 lbs / 6.4 kg	55 lbs / 25 kg	5 lbs / 2.3 kg
Length Umbilical	8 ft / 2.4 m		10 ft / 3 m

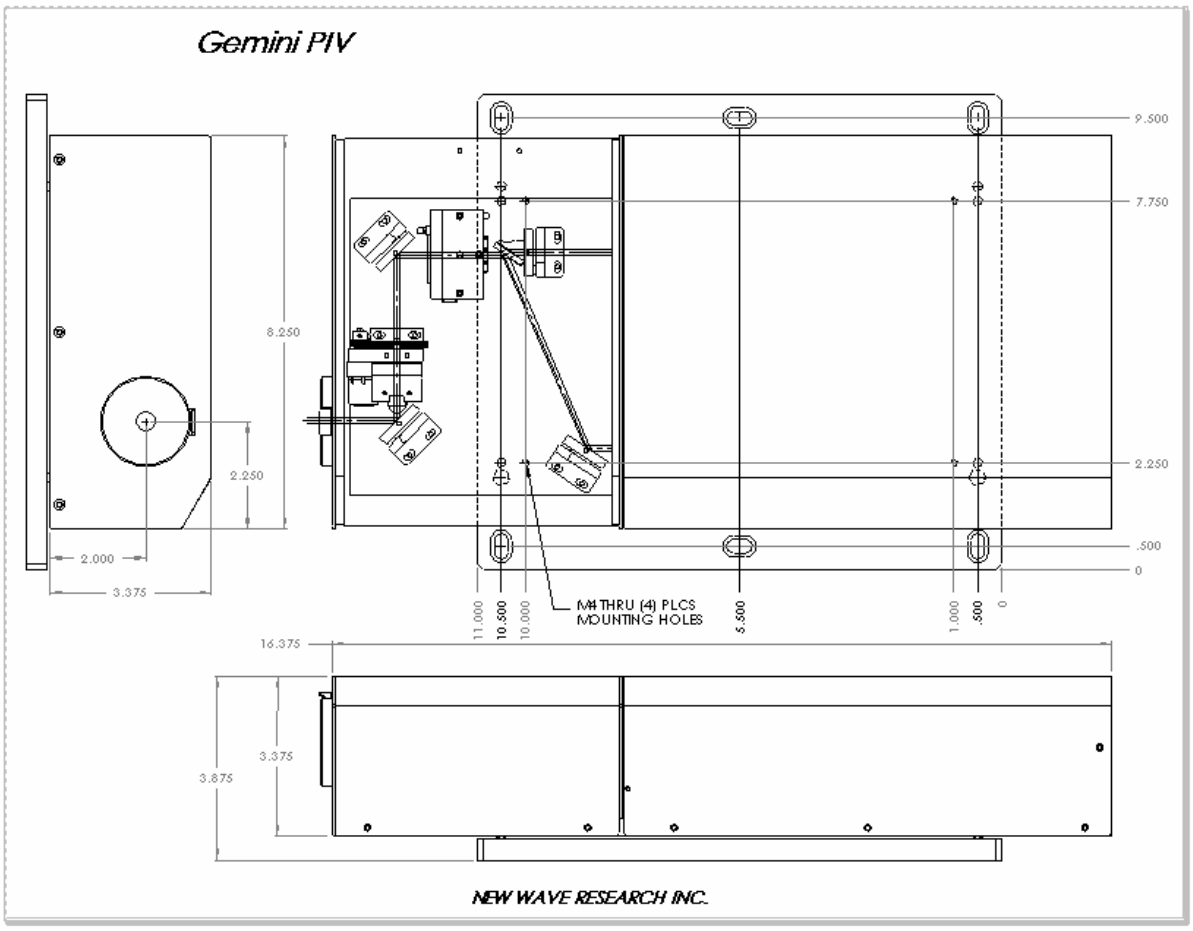
Operating Requirements

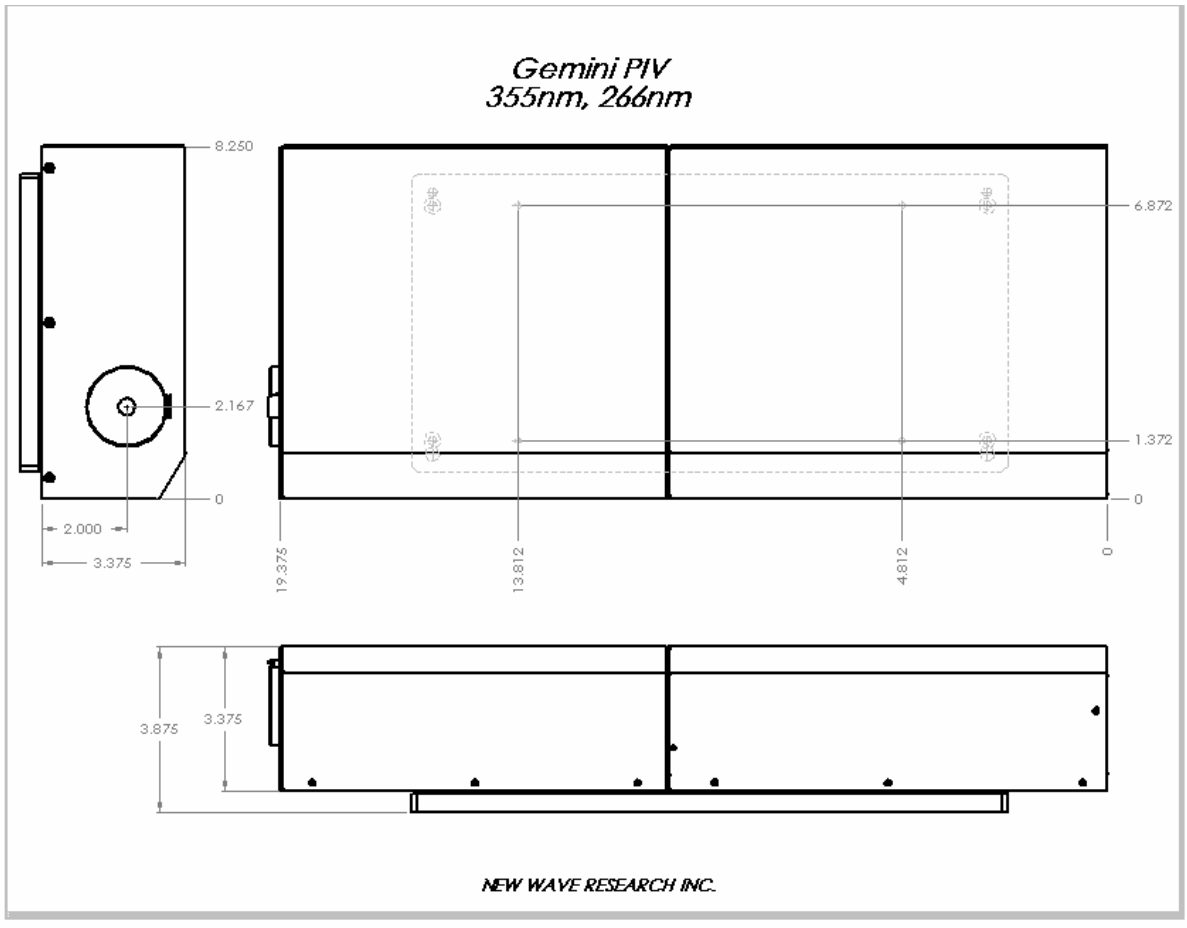
Temperature	70° ± 10° F (21° ± 5° C)
Relative Humidity	20 – 80% non-condensing
Voltage	95-125 V or 200-250 VAC, 50/60 Hz
Power	2000 Watts



VISIBLE AND INVISIBLE LASER RADIATION. AVOID EYE AND SKIN EXPOSURE TO DIRECT OR SCATTERED RADIATION
Wavelength 1064 nm/600 mJ/5 ns
Wavelength 532 nm/400 mJ/5 ns
Wavelength 355 nm/300 mJ/4 ns
Wavelength 266 nm/200 mJ/4 ns
Wavelength 213 nm/100 mJ/4 ns
CLASS 4 LASER PRODUCT

New Wave Research works to continuously improve products.
Specifications are subject to change without prior notice.


Gemini PIV
9.500
7.750
8.250
2.250
.500
0
2.000
3.375
M4 THRU (4) PLCS
MOUNTING HOLES
11.000
10.500
10.000
5.500
1.000
.500
0
16.375
3.375
3.875
NEW WAVE RESEARCH INC.


Gemini PIV
355nm, 266nm
8.250
6.872
2.167
1.372
0
0
2.000
3.375
19.375
13.812
4.812
0
3.875
3.375
NEW WAVE RESEARCH INC.