

Millennia-Pumped Tsunami Pulse Selector/Frequency Doubler Specifications

Output Characteristics	Model 3980-2 Picosecond Pulse Selector Performance ¹		
	710 nm	790 nm	900 nm
Average Power (at 8 MHz) ² Millennia Xs pump Millennia Vllls pump Millennia Vs pump	> 40 mW > 34 mW > 24 mW	> 78 mW > 66 mW > 46 mW	> 60 mW > 46 mW > 30 mW
Pulse Energy ^{2,3} Millennia Xs pump Millennia Vllls pump Millennia Vs pump	> 5.0 nJ > 4.2 nJ > 3.0 nJ	> 9.7 nJ > 8.2 nJ > 5.7 nJ	> 7.5 nJ > 5.7 nJ > 3.7 nJ
Tuning Range ⁴	690–1080 nm		

Output Characteristics	Model 3980-3 Picosecond Pulse Selector/Doubler Performance ¹		
	355 nm	395 nm	450 nm
Average Power (at 8 MHz) ² Millennia Xs pump Millennia Vllls pump Millennia Vs pump	> 3.0 mW > 2.4 mW > 1.0 mW	> 6.0 mW > 5.0 mW > 3.2 mW	> 5.0 mW > 3.0 mW > 1.6 mW
Pulse Energy ^{2,3} Millennia Xs pump Millennia Vllls pump Millennia Vs pump	> 0.37 nJ > 0.30 nJ > 0.12 nJ	> 0.75 nJ > 0.62 nJ > 0.40 nJ	> 0.62 nJ > 0.37 nJ > 0.20 nJ
Tuning Range ⁴	345–420 nm	360–450 nm	420–540 nm

Output Characteristics	Model 3980-5 Femtosecond Pulse Selector Performance ¹		
	710 nm	790 nm	900 nm
Average Power (at 8 MHz) ² Millennia Xs pump Millennia Vllls pump Millennia Vs pump	> 26 mW > 22 mW > 18 mW	> 66 mW > 66 mW > 46 mW	> 40 mW > 30 mW > 22 mW
Pulse Energy ^{2,3} Millennia Xs pump Millennia Vllls pump Millennia Vs pump	3.2 nJ 2.7 nJ 2.2 nJ	8.2 nJ 8.2 nJ 5.7 nJ	5.0 nJ 3.7 nJ 2.7 nJ
Tuning Range ⁴	690–1080 nm		

1. Due to our continuous product improvement program, specifications may change without notice. Specifications only apply when the model 3980 is used in conjunction with a Tsunami pumped by a Spectra-Physics Millennia Vs, Vllls or Xs solid state laser.

2. Specifications apply to operation at the wavelength noted.

3. Pulse Energy is independent of repetition rate (available from 8 MHz to single shot).

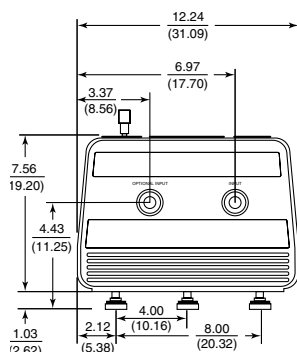
4. Depending on the tuning range of the fundamental.

Millennia-Pumped Tsunami Pulse Selector/Frequency Doubler Specifications

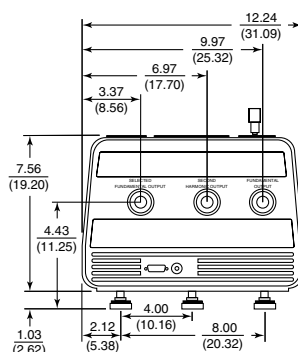
Output Characteristics	Model 3980-6 Femtosecond Pulse Selector/Doubler Performance ¹		
	355 nm	395 nm	450 nm
Average Power (at 8 MHz) ²			
Millennia Xs pump	> 0.5 mW	> 1.8 mW	> 0.8 mW
Millennia Vlls pump	> 0.4 mW	> 1.8 mW	> 0.6 mW
Millennia Vs pump	> 0.3 mW	> 1.0 mW	> 0.4 mW
Pulse Energy ^{2,3}			
Millennia Xs pump	> 0.06 nJ	> 0.22 nJ	> 0.10 nJ
Millennia Vlls pump	> 0.05 nJ	> 0.22 nJ	> 0.07 nJ
Millennia Vs pump	> 0.04 nJ	> 0.12 nJ	> 0.05 nJ
Tuning Range ⁴	345–420 nm	360–450 nm	420–540 nm

Output Characteristics	Model 3980-2 Picosecond Pulse Selector Performance ¹
	Model 3980-3 Femtosecond Pulse Selector Performance ¹
Diffraction Efficiency	> 60%
Contrast Ratio ²	> 300:1
Repetition Rate	adjustable: 8 MHz to single shot
Beam Diameter	< 2 mm
Beam Divergence	< 1.5 mrad
Tuning Range ³	690–1080 nm

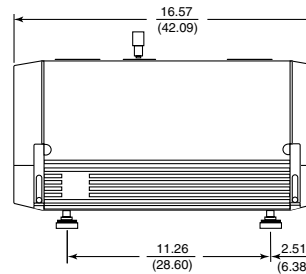
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2. Specifications apply to operation at the wavelength noted.
3. Pulse Energy is independent of repetition rate (available from 8 MHz to single shot).
4. Depending on the tuning range of the fundamental.



Model 3980 (Input End)



Model 3980 (Output End)

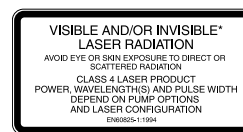


Model 3980 (Side View)

All Dimensions in $\frac{\text{inches}}{\text{cm}}$



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