

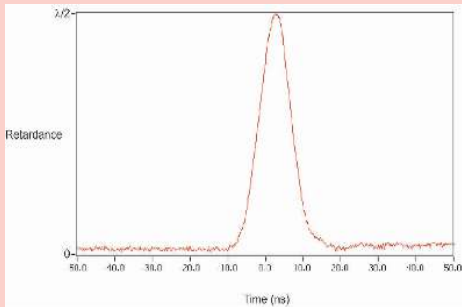


# Eclipse™ - Half-wave Pockels cell and driver

Tunability and flexibility to optimize your specific experiment

## Applications

- Pulse picking for amplifier seeding
- Reducing heat load on samples



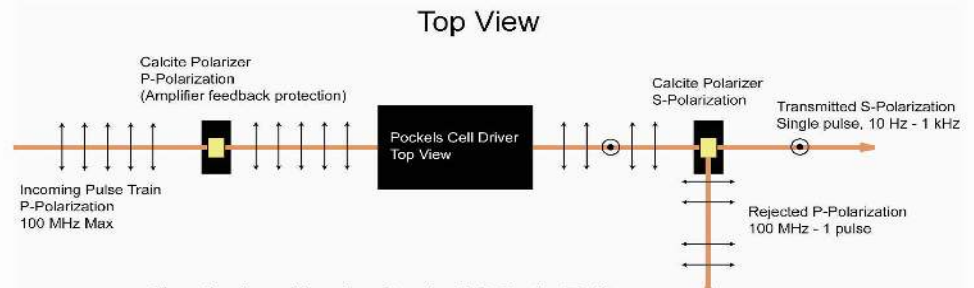
A continuous wave beam switched thru the Eclipse.

## Features

- Horizontal or Vertical mounting
- Burst mode operation with external gating function
- One-half wave operation may be changed to one-quarter wave operation by simply adjusting the high voltage level
- Window ranges spanning 10 ns to 500 ns are available from a single unit with Option-LW



The KMLabs Eclipse™ is a high repetition rate, half wave Pockels cell and driver unit, designed for laser pulse picking at up to 20kHz. The Eclipse has a minimum window of 10ns, and >90% throughput between 750-850nm. KMLabs' compact design allows the driver to be packaged in with the optical unit, thus minimizing the high voltage line-length, and thereby maximizing the switching speed. The high voltage source for the Eclipse is an external, 19" w x 13" d x 3.5" h unit.



Standard application for the KMLabs Eclipse:  
Switching pulses out from an ~100MHz modelocked pulse train.

Switching Rate	< 20 kHz	
Minimum Switching Window	10 ns	
Switching Efficiency	>90% for 750-850 nm wavelengths	
Triggering Requirements	Amplitude	3-5 V (TTL) when terminated with 50 ohms
	Duration	> 5 us
	Frequency	10 Hz - 20 kHz
Cooling Requirement	> 200 mL/min water flow, 15-25 deg C, via 1/4" Swagelok connectors	
Driver Dimensions	W 10cm, L 15cm, H 28cm or	
	W 15cm, L 28cm, H 10cm	
Driver/Cell Aperture Diameter	9 mm	

