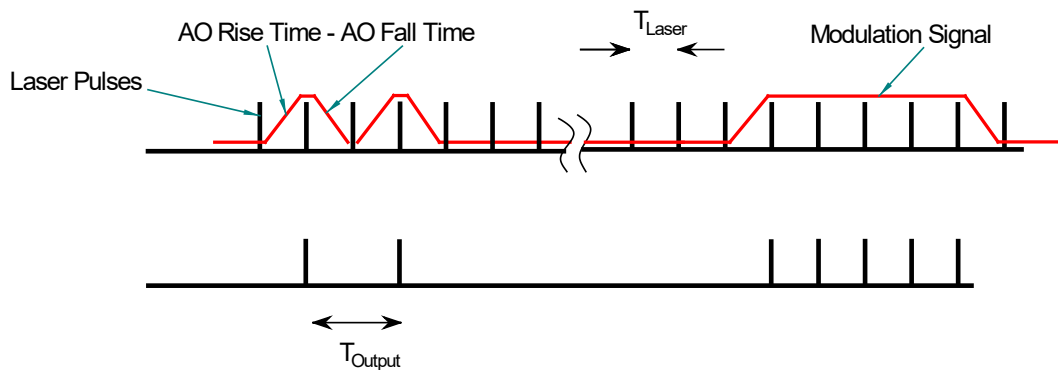


## AN0624

### Acousto-Optic Pulse Picking

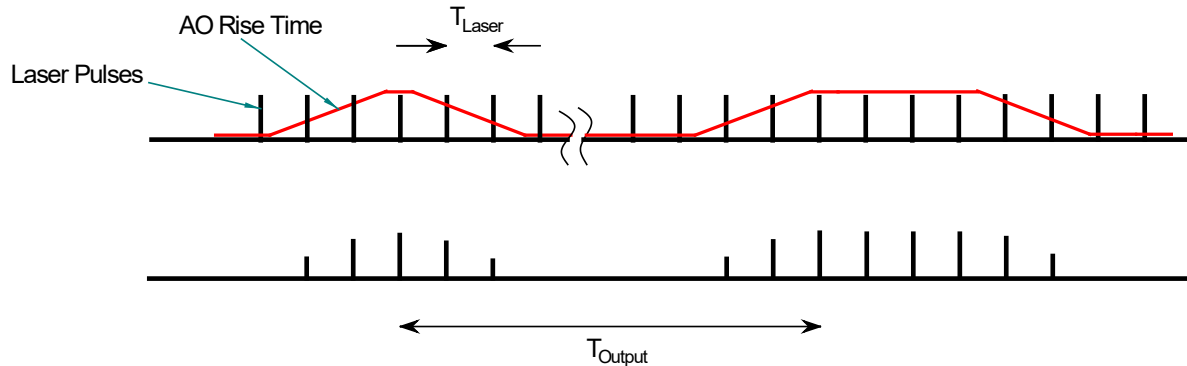
#### Pulse picking modulation

Case 1, (maximum output rate = half laser rep-rate)



#### Average Power Modulation

Case 2

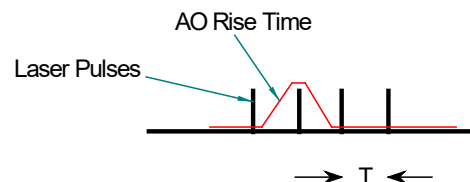


#### For “clean” pulse picking

AOM rise time given by:

$$\tau_r = 0.65 \frac{d}{V}$$

where:  $d$  = 1/e<sup>2</sup> beam diameter  
 $V$  = acoustic velocity



For single pulse picking,  $T_r < 0.8 \times$  laser pulse period