

Re: How best to detect laser?

Source: <http://sci.tech-archive.net/Archive/sci.electronics.design/2004-07/2277.html>

From: colin (*no.spam.for.me_at_ntlworld.com*)

Date: 07/13/04

Date: Tue, 13 Jul 2004 12:21:24 GMT

if your modulating the laser then u probably not gona be bothered too much with stray light just filter through the frequencie u want.

if its a single high frequency then an inductor as the load for the detector can greatly increase the signal, otherwise the capacitance can rob all the signal. i found a dual gate mosfet seems to be the best choice of amp.

an avalanche photodiode detector probably the ultimate, a bit expensive tho, they can detect single photons, or just multiply by 150+, and theyr still dam fast.

with such and a small lense ive managed to detect reflected 50mhz signal from an object several meters away and still get a usable signal to noise ratio.

Colin =^.^=