## Simple Circuit for Verification of CRT-Software Synchronization

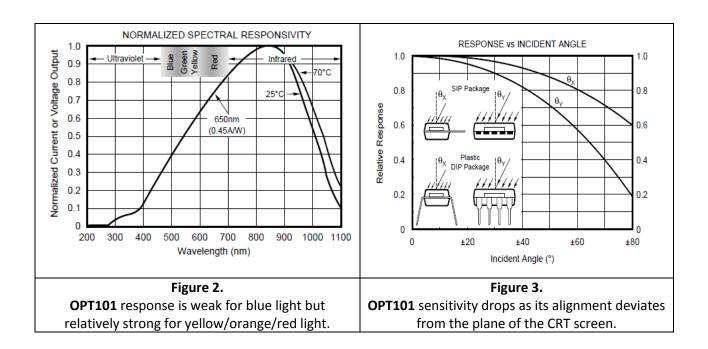
Burr-Brown OPT101, a monolithic photodiode and linear amplifier on a single integrated circuit.



Figure 1.

Photograph of 8-pin **OPT101** integrated circuit.

The package is clear to allow light to reach the on-chip 5.225 mm<sup>2</sup> photodiode.



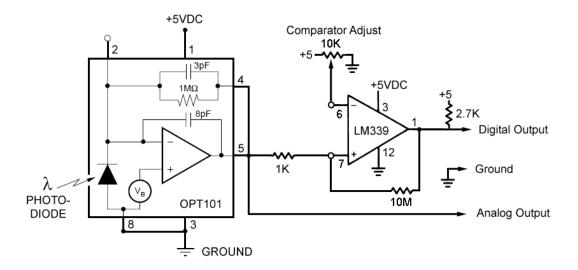
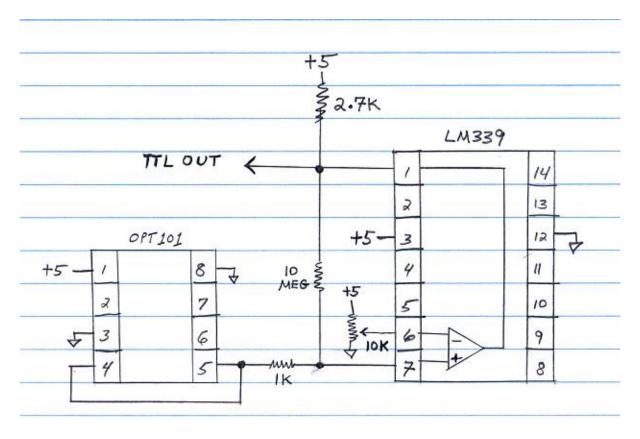


Figure 4.

Schematic diagram of simple circuit used to detect the arrival of the CRT beam.

Use potentiometer on non-inverting input to the comparator to adjust the analog level from the OPT101 needed to trigger an active digital output.



**Figure 5.** Wiring diagram.