



## Method and apparatus for signal reception with ambient light compensation

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### Summary

The University of North Dakota has patented a free space communications apparatus. The apparatus can be used to compensate for ambient noise in photo detectors. The apparatus includes a first and second receiving element which generate a current as a function of received signals. An output signal is produced as a function of the communication signal received by the elements. Further, the first and second receiving elements are connected in a circuit that cancels the first current as a function of the second current.

### Advantages

- Stops ambient light from saturating photodetectors
- Lessens the need for optical filters to reduce saturation
- Computerized signal analysis with complex equipment and software can be eliminated



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