# Optical Filters for LiDAR Applications

Andover Corporation

## Optical Filters for LiDAR Applications

LiDAR *(**Li**ght **D**etection **A**nd **R**anging)*

Andover Corporation's self-reliant approach to manufacturing, places us in the optimal position to provide quick turn prototyping for your LiDAR requirements. We can provide custom design solutions specified to meet your needs. Polarizing beamsplitters with unique angular performance characteristics can be custom designed to satisfy your LiDAR light management requirements. With our 15 custom made coating chambers, we can offer coating solutions from the UV to 15µm, while also providing in house fabrication for coating fixtures, custom mounts, cutting, coring, shaping and polishing for a vast array of substrate materials.

We provide standard bandpass filters that work with the common laser wavelengths used with most LiDAR systems, including 532nm, 905nm, 1064nm, and 1550nm.

**Andover Corporation**
4 Commercial Drive
Salem NH 03079

603.893.6888
www.andovercorp.com
info@andcorp.com

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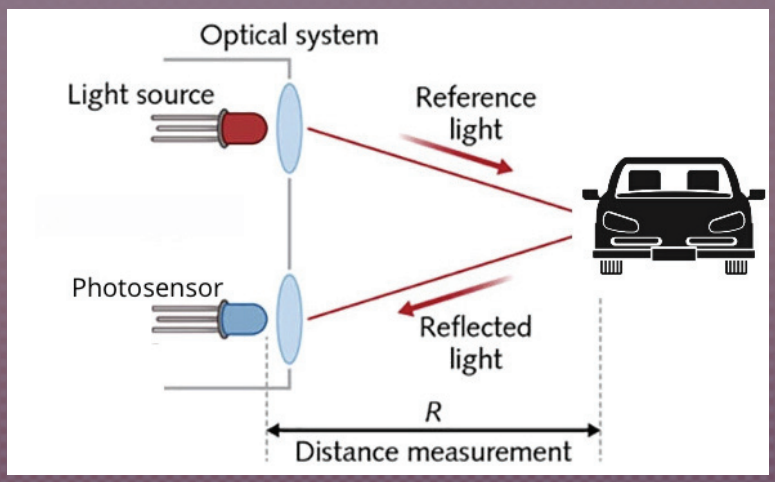
LiDAR is a sensing method that detects objects and maps their distances by illuminating the target with an optical pulse at 905nm or 1550nm and measuring the reflected return signal.

Since conventional LiDAR system architectures employ dedicated transmit and receive apertures, the resultant package has a relatively large footprint. However, leveraging polarization techniques can miniaturize the size of the optical subsystem. In addition, LiDAR systems routinely utilize narrow band pass filters in both the transmitted and receiving path to improve the system Signal-to-Noise ratio (SNR) performance.




Andover Corporation is uniquely poised to support both new product development and production of optical sensors for the automotive industry. We offer custom engineering to provide superior and cost-effective solutions. Our extensive experience with image quality band pass filters, broadband AR coatings and polarizing beam splitter assemblies make us an ideal partner to supply the automotive industry with optical sensors. Our vertically integrated facility with in-house coating, fabrication, optical assembly and testing capabilities can provide custom solutions with reduced lead-times.

Andover Corporation's self-reliant approach to manufacturing places us in the optimal position to provide quick turn prototyping for your LiDAR and camera sensor requirements.