



High Speed Optics for Broadcasting



Physical Optics Corporation developed a new technology for high-speed communication interfaces based on optical modulation circuits and vertical cavity surface emitting lasers. These interfaces are required to achieve broadcast-quality transmission in the transition from analog to digital audio/video formats and are integral to military communications, television broadcast, and movie post-production facilities.

This high-speed link technology spawned a family of system products, commercialized under the name Broadcast Facility Link

Platforms (BFLPs). Manufactured products include fiber optic transport and conversion links for video, audio, control, data communications, and telecom signals. These products are designed specifically for digital data transmission and broadcasting applications, and provide full support for numerous signal formats and data types, all in one platform. They offer dense, economical card housing, as well as redundant power supplies, excellent cooling, and hot swappable cards.

The BLFP technology developed in this project also launched a new spin-off company, Broadata Communications, Inc. (BCI), focusing on commercializing broadcast-quality audio/video fiber links used by television stations and movie post-production facilities.



Phase III IMPACTS

- Over 55 units sold to DoD generating over \$200K in sales.
- Over 153 units sold to the private sector generating over \$700K in sales.
- \$900K in Federal/Private funds for additional R&D.
- \$204K in Government/DoD investments for Phase III.
- Over \$1.52M in non-DoD contributions for Phase III.
- Product used in the Army Data transport system, NATO Center in Germany.