

FOR IMMEDIATE RELEASE

6/22/11

High Precision Prism Assemblies Enable Compact Beam Multiplexing

Custom prism assemblies from REO, a leading manufacturer of high volume precision optical solutions, enable construction of compact beam multiplexing systems for applications in aerospace, defense, bioinstrumentation, analytical instruments and telecommunications. Specifically, these monolithic assemblies allow multiple beams to be combined, split, or redirected based on differences in wavelength and/or polarization. REO prism assemblies are distinguished by their low transmitted wavefront distortion values (as low as $\lambda/10$ at 633 nm), beam deviation tolerances in the arc second range, and even the capability for precise control of output beam phase relationships.

REO fabricates assemblies from numerous substrate materials for applications in the ultraviolet, visible or infrared, typically based on prisms in the 3 mm to 25.4 mm size range. In addition to traditional adhesive bonding techniques, REO can employ its Activated Covalent Bonding[™] technology to yield assemblies that offer very high laser damage threshold characteristics, as well as exceptional thermal and environmental stability. REO is also able to incorporate other optics within these assemblies, such as lenses for beam shaping or absorbing filters for use as internal beam dumps.

REO utilizes an optimized combination of both manual and automated assembly technologies in order to deliver precision assemblies in volume at competitive prices. These include coordinate measuring instrumentation, interferometers, customized assembly jigs, active alignment instrumentation and automated adhesive dispensing equipment. The latter is particularly useful in ensuring part-to-part and batch-to-batch consistency.

About REO

REO produces high precision thin film coatings, optics and opto-mechanical assemblies for the ultraviolet, visible and infrared. Located in Boulder, CO, the company primarily services medium to high volume OEMs including manufacturers of defense and aerospace systems, laser systems, semiconductor tools, medical systems, life sciences instrumentation and telecom equipment. REO is a privately held company. For more information, contact Mark Damery, Vice President and General Manager of Worldwide Sales, at +1-720-562-3213, e-mail MarkD@reoinc.com, www.reoinc.com, or Susan Anway, Vice President of Finance and Chief Financial Officer at +1-720-562-3206, e-mail SueA@reoinc.com.