

## OL 490 Agile Light Source Patents



The OL 490 design is based on intellectual property embodied in US Patent 6,128,078 Bill Fateley et al, filed Feb 11th 2000, Issued Oct 3rd 2000. Title: Radiation filter, spectrometer and imager using a micro-mirror array. Optronic Laboratories has licensed this patent and are using it as a radiation filter. Per claim (1) of this patent, the use of “a plurality of modulatable micromirrors located for receiving individual radiation components forming part of said input radiation...” and figure 1, the system provides the individual radiation components using a Xenon lamp (12) by focusing it (optical components 26, 28) onto a slit (30), spatially dispersing its light with a grating (16) and bringing the different wavelength components to focus on the DMD array (18). This DMD has a plane array of reflective pixels (34) which are controlled using a computer (22). This is coupled to our own proprietary design of DMD interface (37). Note that the patent covers both modulated and quasi-static operation. Optronic Laboratories interposes a liquid light guide in order to provide an output port for transporting the light to the end-user’s detector, spectrometer, integrating sphere or other apparatus.

### *Light Measurement Instrumentation*

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