Multiphoton Laser Beam Combining Filters Optimized for Optogenetics

Our Multiphoton LaserMUX beam combiners enable deeper tissue imaging and improved contrast in multi-color and multimodal fluorescence microscopy. The filters set new performance standards by simultaneously achieving high transmission, high reflection, and low GDD over both reflection & transmission, while maintaining minimal wavefront distortion. Ideal for combining two femtosecond pulsed laser beams, they are perfect for optogenetics and other life science applications.

- Combine two or more femtosecond pulsed lasers such as Ti:Sapphire (& OPO coupled), neodymium and ytterbium-doped fiber and glass lasers, and Cr-forsterite lasers
- < ± 100 fs² GDD at popular laser wavelengths for minimal pulse dispersion

<table>
<thead>
<tr>
<th>Nominal Edge Wavelength</th>
<th>Part Number</th>
<th>Reflection Range (&gt;95%, average)</th>
<th>Transmission Range (&gt;93% average)</th>
</tr>
</thead>
<tbody>
<tr>
<td>850 nm</td>
<td>FF850-D01-t1-25x36</td>
<td>670 – 815 nm</td>
<td>890 – 2100 nm</td>
</tr>
<tr>
<td>980 nm</td>
<td>FF980-D01-t1-25x36</td>
<td>770 – 938 nm</td>
<td>1022 – 2100 nm</td>
</tr>
</tbody>
</table>

Multiphoton LaserMUX Beam Combiners can be used to combine multiple pulsed laser beams

Multiphoton LaserMUX Beam Combiners are designed to provide minimal pulse dispersion both in reflection and transmission.

For additional details visit: www.semrock.com/MP-LaserMUX

For ordering Semrock products and technical support, please visit www.semrock.com or contact:

semrock@idexcorp.com | +1 866.736.7625 | +1 585.594.7050
3625 Buffalo Road, Suite 6, Rochester, New York 14624

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