**FiberSwitch® Optical switch integrated Confocal Laser Microscopy**

### Specifications for Optical Switch

<table>
<thead>
<tr>
<th>Spec</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Switch configuration</td>
<td>1x2, 1x4, 1x8, 1x12, 1x16, 2x4, 2x8</td>
</tr>
<tr>
<td>Mode field diameter</td>
<td>~3.3 µm @ 405 nm, other options available</td>
</tr>
<tr>
<td>Operating wavelength</td>
<td>350 – 460 or 400 – 650 nm</td>
</tr>
<tr>
<td>Crosstalk</td>
<td>&lt; -55 dB</td>
</tr>
<tr>
<td>Switching frequency</td>
<td>30 Hz</td>
</tr>
</tbody>
</table>

### Benefits
- Light emitted from a small core singlemode fiber (mode field diameter: approx. 2.3 µm @ 355 nm) enhances the resolution of the image
- The switch is available for the UV range (350 – 460 nm) as well as the visible VIS spectrum (400 – 650 nm)
- The fiber integrated switch simplifies and downsizes the system constitution
- The switch frequency of 30 Hz enhances the measurement speed

### Application
- Acquisition of florescence emitted from cells (GFP, RFP, etc.)
- By combining several laser sources suited for each fluorescent with the optical switch, fluorescent of cells can be measured more efficiently

### Diagram

![Diagram showing fiber switch with singlemode fibers in visible range](image-url)

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