

## FIBER-OPTIC SWITCH

### FOS Fiber-Optic Switch

The Bristol Instruments FOS Series Fiber-Optics Switch provides a convenient way to connect up to eight lasers to a single fiber-coupled instrument, such as our wavelength meters and spectrum analyzers.

The Fiber Optic Switch allows a single wavelength meter or spectrum analyzer to characterize multiple lasers automatically. Complex experiments and multiple users can be easily accommodated with the FOS Series.



### SPECIFICATIONS

	VIS	NIR2
<b>SWITCH TYPE</b>	1 x 4 or 1 x 8	
<b>WAVELENGTH RANGE</b>	400 - 1700 nm	1000 - 2600 nm
<b>INTERNAL FIBER TYPE</b>	9 $\mu$ m core diameter (single-mode over 1260 - 1625 nm)	7 $\mu$ m core diameter (single-mode over 1850 - 2200 nm)
<b>CONNECTOR TYPE</b>	FC/UPC or FC/APC	
<b>TRANSMISSION <sup>1, 2</sup></b>	10 - 30% (400 - 600 nm) 30 - 40% (600 - 1700 nm)	20 - 40% (1000 - 1600 nm) 10 - 20% (1600 - 2600 nm)
<b>REPEATABILITY <sup>2</sup></b>	$\geq 0.01$ dB	
<b>POLORIZATION DEPENDENT LOSS <sup>2</sup></b>	$\geq 0.1$ dB	
<b>RETURN LOSS <sup>2</sup></b>	$\geq 40$ dB	
<b>CROSSTALK <sup>2</sup></b>	$\leq -50$ dB	
<b>SWITCHING TIME</b>	$\leq 5$ ms	
<b>SWITCHING FREQUENCY</b>	$\leq 30$ Hz	
<b>LIFETIME</b>	Earlier of $10^8$ cycles or two years	
<b>MAXIMUM INPUT POWER</b>	0.05 mW (400 - 500 nm) 10 mW (500 - 600 nm) 100 mW (600 - 1700 nm)	100 mW (1000 - 2600 nm)
<b>DIMENSIONS (H x W x D)</b>	2.5" x 5.5" x 9.0" (64 mm x 140 mm x 229 mm)	
<b>WEIGHT</b>	2.5 lbs (1.1kg)	
<b>POWER</b>	USB 2.0/500 mA	
<b>INSTRUMENT INTERFACE</b>	Windows-based application via USB 2.0 or greater	

(1) Achieved using an optical input fiber with a core diameter that matchesthe FOS internal fiber.

(2) Characteristic performance, but non-warranted.