Spectral Optics

The new standard in optical coatings and coated optical components

TrueSplitTM Non-Polarized Beamsplitter/combiner

TrueSplit is a breakthrough in beamsplitter technology. While most nonpolarizing beamsplitters require hybrid metallic coatings or cemented interfaces which absorb energy, TrueSplit has only hard dielectric coatings and no bonded interfaces. As a result, it achieves <3% P-S polarization performance with almost no absorption, and has a damage threshold > 20J/cm². Furthermore, this can be realized with almost any R/T ratio (not just 50/50) and almost any wavelength.

- Clear Aperture > 5/8 inch
- Beam height 1 inch above base
- 2 ½ inch square footprint: base mount on 2 inch centers or post mount on -20 thread (Metric option available)
- Reversible to allow left- or right-reflection
- Stock coatings available for 193 nm to 2.0 um
- Custom wavelengths available on request







The TrueSplit[™] beamsplitter/combiner has intrinsic angular stability.

Optical Specifications

Typical Performance

Batio Tolerance: + 2 % Std	Polarization:	P - S < 2.5%
$(\pm 1\% \text{ can be achieved})$	Ratio Tolerance: (± 1%	± 2 % Std can be achieved)
Wavefront Error: $<\lambda/10$ 633nm	Wavefront Error:	<λ/10 633nm
(depending on beam size)		
Power Handling: >20 J / cm ²	Power Handling:	>20 J / cm ²
Reflection Angle: 90 ±1	Reflection Angle:	90 ±1
Wavelength Choice: 193nm-1.2u		



Post Mounted



Mechanical



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