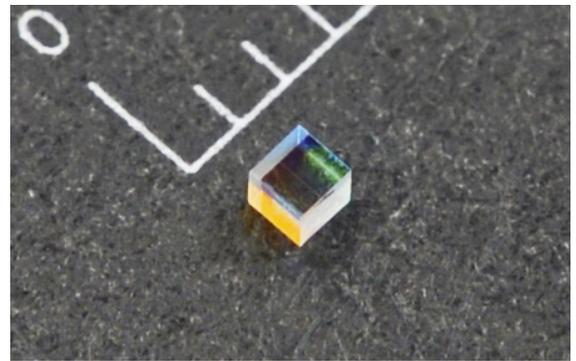
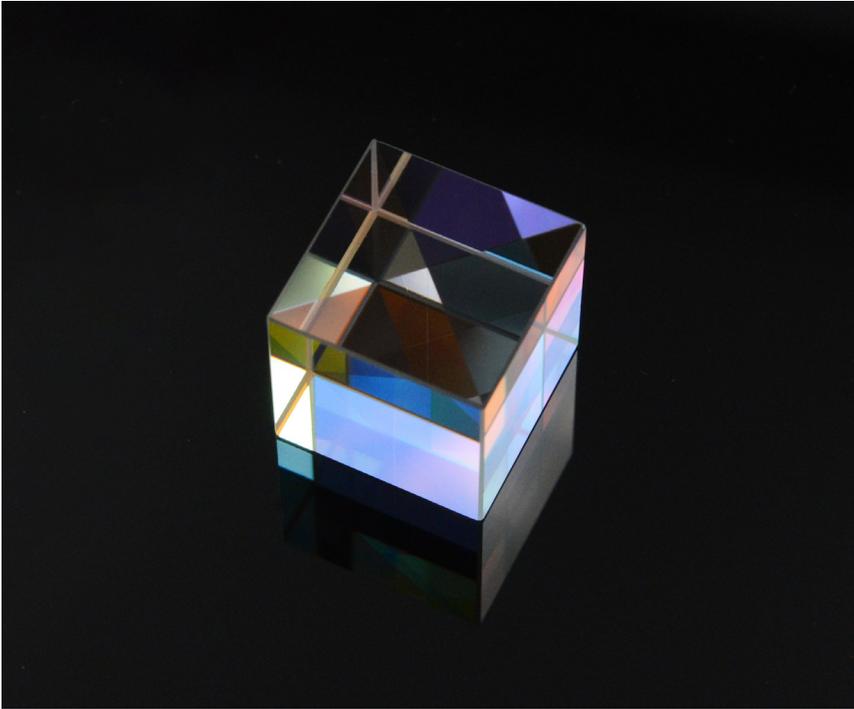


# RGB BEAM COMBINER

RGB beam combiners are passive optics that can combine red, green, and blue into one channel. They are widely used in visible-light image systems such as projectors and AR/VR devices. Coherent can build customized RGB combiners to meet customer requirements, including tiny size and unique structure. Coherent has more than 20 years of experience in passive optics, and customers can always find an optics solution here.



## FEATURES

- Tiny size
- Low insertion loss
- RGB visible spectrum available
- Customized structure

## APPLICATIONS

- Projectors
- Image systems
- AR/VR devices
- Metrology systems

**Physical Performance**

Dimensions (mm)	0.8 - 12.7		12.8 - 25.4	
Specification	Typical	High-performance	Typical	High-performance
Surface quality (MIL)	40 - 20	20 - 10	40 - 20	20 - 10
Size tolerance (mm)	±0.1	±0.05	±0.25	±0.1
Clear aperture	80%	85%	80%	85%

**Technical Performance**

Transmittance %				
Wavelength	660 ±10 nm	520 ±10 nm		450 ±10 nm
AOI	Red-S pol	Green-S pol	Green-P pol	Blue-S pol
45 ±5°	>95%	>95%	>98	>95%
45 ±8°	>93%	>92%	>98	>93%

**Beam Path in Use Case**

