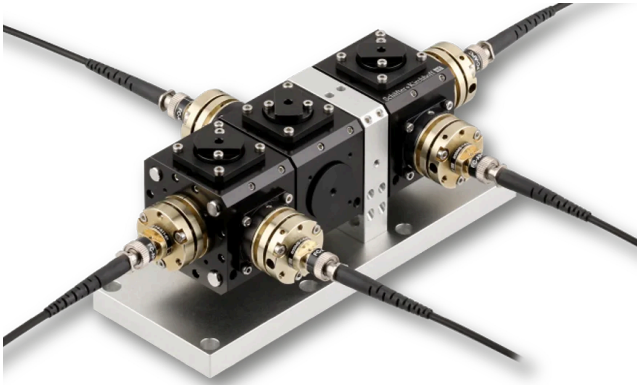


## 48-RGBV-001

Dichroic RGB Beam Combiner



### FEATURES

Dichroic RGBV Beam Combiner

- Configuration with 4 input ports
- Based on dichroic long-pass or short-pass mirrors
- Large variety of edge wavelengths
- Highly efficient coupling into polarization-maintaining or single-mode fiber cables
- Compact, rugged, transportable and sealed opto-mechanical units
- Fully fiber-coupled
- Very high long-term stability, efficiency and reproducibility

- 
- RGBV fiber optic components



## DESCRIPTION

This dichroic RGBV Beam Combiner is a compact opto-mechanical unit that combines four fiber-coupled sources with different wavelengths into a common output fiber cable with high efficiency.

#### Optical Setup

The input ports are fiber-coupled to [PM fiber cables](#) or to [SM fiber cables](#).

The different wavelengths are superimposed by means of dichroic mirrors. A summary of typical splitters can be found [here](#).

#### Fiber Couplers

A fundamental component of the fiber-coupled Beam Combiner is the [Laser Beam Coupler](#), which is the input into the opto-mechanical unit collimating the input radiation, respectively and, finally, couples the radiation back into the polarization-maintaining or single-mode fiber cable. The stability of the total fiber-coupled Beam Combiner is determined by the [stability](#) of the laser beam coupler.

## TECHNICAL DATA

48-RGBV-001

Order code	48-RGBV-001
Configuration	4 → 1
Wavelengths	Customer-specific
Fiber type	polarization-maintaining or single-mode
Connector type	FC APC (standard)
Cable lengths	Customer-specific
Transmission	Dependent on the used dichroics

## TECHNOTES

- [Connecting multicube assemblies to a base plate](#)  
[How to connect the self-supporting multicube system](#)

## DOWNLOADS



[980129090641\\_kuz.pdf \(Dimensional drawing\)](#)

## RELATED PRODUCTS

**DICHROIC RGB BEAM  
COMBINER**

Compact, rugged and highly efficient opto-  
mechanical unit for combining several wavelengths

**RGB FIBER  
COLLIMATOR SERIES  
60FC**

for collimating radiation exiting an optical fiber or as  
an incoupler

**RGB LASER BEAM  
COUPLERS SERIES  
60SMS**

for coupling into single-mode and polarization-  
maintaining fiber cables

**POLARIZATION  
ANALYZER SK010PA**

Measurement tool for coupling into polarization-  
maintaining fiber cables

This is a printout of the page <https://sukhamburg.com/products/details/48-RGBV-001> from 5/7/2024

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