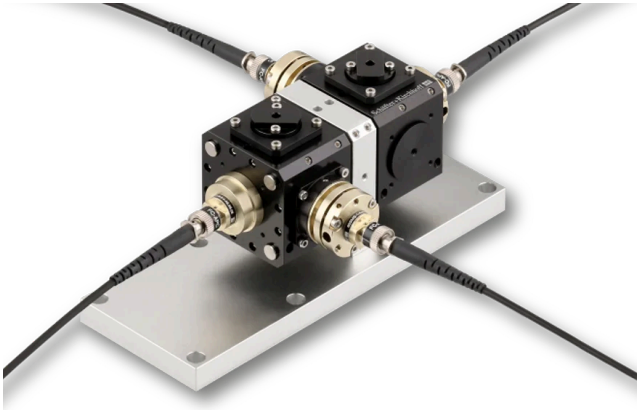


48-RGB-002

Dichroic RGB Beam Combiner multimode



FEATURES

Dichroic RGB Beam Combiner

- Configuration with 3 input ports
- Based on dichroic long-pass or short-pass mirrors
- Large variety of edge wavelengths
- Highly efficient coupling into multimode fiber cables
- Compact, rugged, transportable and sealed opto-mechanical units
- Fully fiber-coupled
- Very high long-term stability, efficiency and reproducibility

-
- RGB fiber optic components



DESCRIPTION

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

Optical Setup

The input ports are fiber-coupled to [MM 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. The stability of the total fiber-coupled Beam Combiner is determined by the [stability](#) of the laser beam coupler.

TECHNICAL DATA

48-RGB-002

Order code	48-RGB-002
Configuration	3 → 1
Wavelengths	Customer-specific
Fiber type	multimode
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



[980129090637_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

This is a printout of the page <https://sukhamburg.com/products/details/48-RGB-002> from 5/6/2024

CONTACT

For more information please contact:

Schäfter + Kirchhoff GmbH

Kieler Str. 212

22525 Hamburg

Germany

Tel: +49 40 85 39 97-0

Fax: +49 40 85 39 97-79

info@sukhamburg.de

www.sukhamburg.com

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