

48-RGB-001

Dichroic RGB Beam Combiner



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 polarizationmaintaining or single-mode fiber cables
- Compact, rugged, transportable and sealed optomechanical units
- Fully fiber-coupled
- Very high long-term stability, efficiency and reproducability

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 <u>PM fiber cables</u> or to <u>SM fiber cables</u>. The different wavelengths are superimposed by means of dichroic mirrors. A summery of typical splitters can be found <u>here</u>.

Fiber Couplers

A fundamental component of the fiber-coupled Beam Combiner is the <u>Laser Beam Coupler</u>, 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 <u>stability</u> of the laser beam coupler.

TECHNICAL DATA

48-RGB-001

Order code	48-RGB-001
Configuration	3 → 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



980129090636_kuz.pdf (Dimensional drawing)

RELATED PRODUCTS



DICHROIC RGB BEAMCompact, rugged and highly efficient opto-

COMBINER mechanical unit for combining several wavelengths

RGB FIBER for collimating radiation exiting an optical fiber or as

COLLIMATOR SERIES an incoupler

60FC

RGB LASER BEAM for coupling into single-mode and polarization-

COUPLERS SERIES maintaining fiber cables

60SMS

POLARIZATION Measurement tool for coupling into polarization-

ANALYZER SK010PA maintaining fiber cables

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

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