High Performance Digital Imaging made easy

RGB Color Filter

Allows Monochrome Cameras to Produce High-Quality Color Images

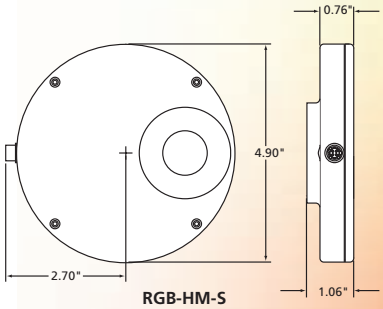
The **RGB Color Filter** modules are designed for use with QImaging's line of high-resolution monochrome CCD cameras to capture high-quality color images. Color information is captured by sequentially acquiring full-resolution images in each of the color planes. The filter is switched through its red, green, and blue states under direct control of the camera hardware. The camera hardware provides highly synchronized and precise timing to the filter module. The result is artifact-free imaging at frame rates much faster than most mechanically selected filters and acousto-optical or liquid-crystal filters that require software control. White balance is controlled easily through software. The RGB Color Filter is connected to the camera's electronics with a single cable.

RGB-HM-S (slider module)

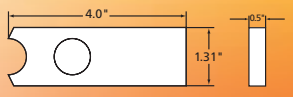
RGB-HM-NS (non-slider module)

RGB-MC-O (slider module)

RGB-MC-Z (slider module)



RGB-HM-S



RGB-MC-O

RGB-MC-Z

FILTER FORMATS

- **RGB Color Filter (Slider Modules)**
  Sliders allow easy switching between color and monochrome imaging.

  Model: RGB-HM-S
  This module allows the color filter element to be moved in and out of the field of view.

  Model: RGB-MC-O
  This module (for Olympus® BX and IX series microscopes) slides easily in and out of the optical path through the nosepiece.

  Model: RGB-MC-Z
  This module (for Carl Zeiss® Axioplan® microscopes) slides easily in and out of the optical path through the analyzer slot.

- **RGB Color Filter (Non-Slider Module)**
  Model: RGB-HM-NS
  This module is compact and can be easily removed for monochrome imaging.

FEATURES	BENEFITS
Liquid-Crystal Filter Element	▪ High-quality color images with high-resolution monochrome CCD cameras ▪ Filter color changes with no moving parts ▪ No vibration ▪ No optical-registration problems
Single-Cable Connection to QImaging Cameras	▪ Easy to install and use ▪ Controlled by QImaging cameras
Sequential Acquisition of Color	▪ Full-resolution image in each color plane
Provides Color Even When Camera Is in Binning Modes	▪ High sensitivity and speed
Filter Element Easily Slides Out of Optical Path (Slider Modules)	▪ Enables quick switch between full-color imaging and high-sensitivity monochrome imaging without refocusing
Hot-Mirror Filter	▪ Integrated filtering of infrared light provides better color fidelity

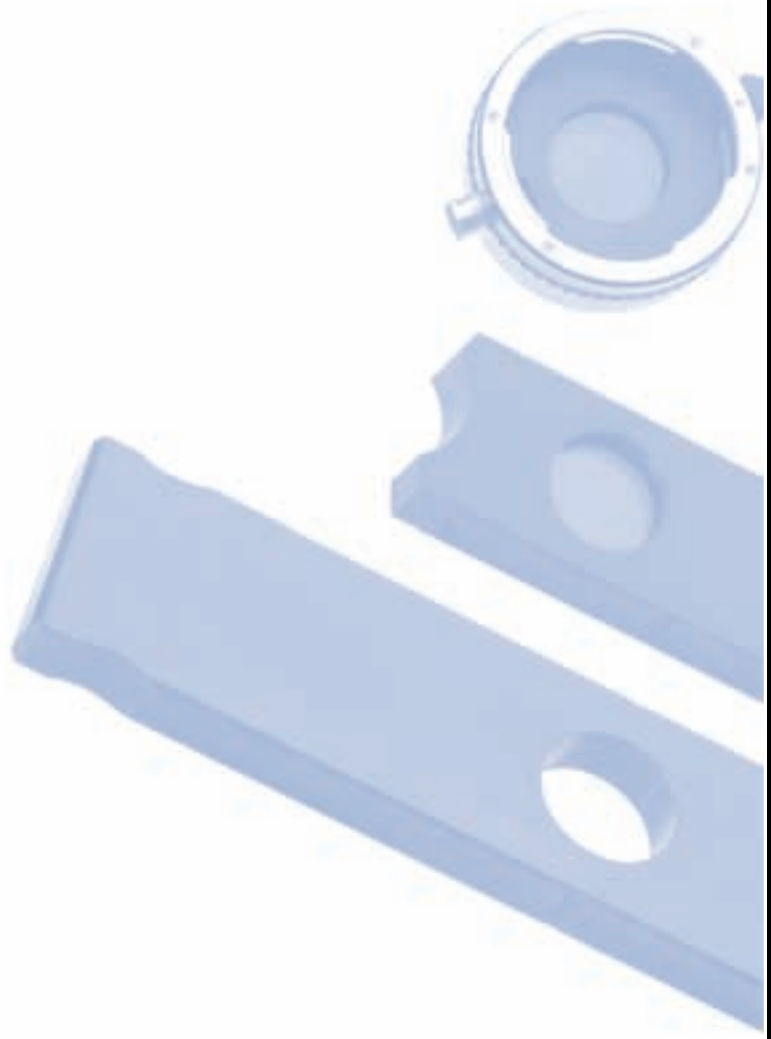
RGB Color Filter Specifications

APPLICATIONS

- Brightfield Microscopy
- Fluorescence Microscopy
- Pathology, Histology, & Cytology
- FISH
- DNA Analysis
- Metallurgical Microscopy
- Forensic Analysis

Color States	Red, green, blue
Transmission	30 min*
Maximum Optical Input	500 mW/cm^2
Module Control	Camera-controlled functionality
Temperature Range	10 to 45°C
Optical Mount	Slider modules or Nikon® F-mount (C-mount to camera)

**Transmission is doubled for polarized light.*
Note: Specifications are nominal and subject to change.



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