

RGB COLOR FILTER

Produce High-Quality Color Images with QImaging Monochrome CCD Cameras

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.

filter formats

RGB Color Filter (Slider Modules)

Sliders allow easy switching between color and monochrome imaging.

Model: RGB-HM-3POS-S

This module has three positions:

- (1) Color filter element enables rapid switching between red, green, and blue
- (2) IR filter element filters out IR wavelengths to allow better color fidelity
- (3) Clear glass element

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.

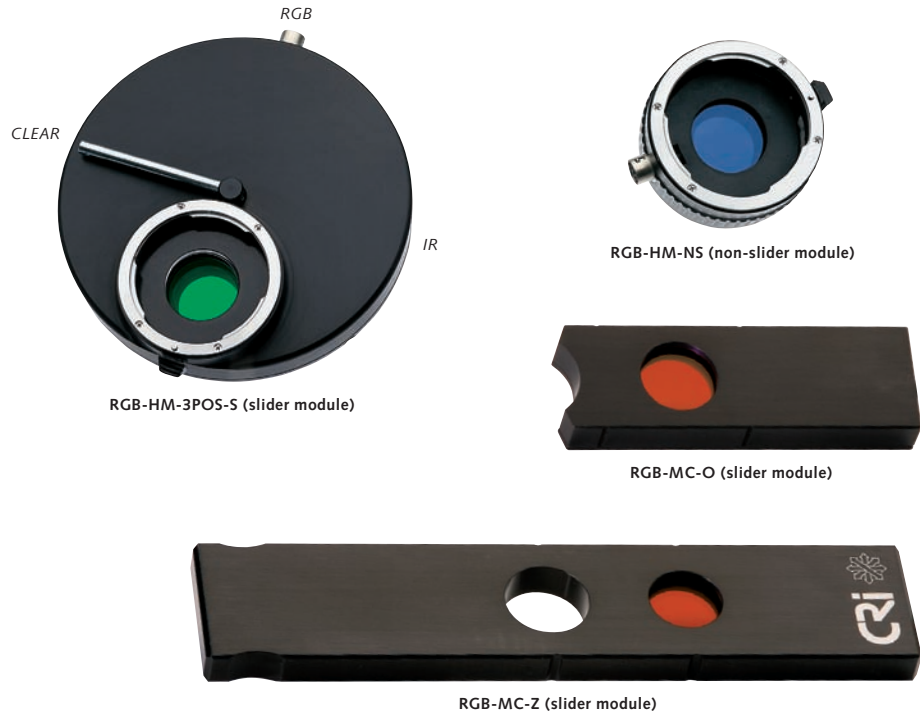
Model: RGB-MC-Z

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

Liquid-Crystal Filter Element

Single-Cable Connection to QImaging Cameras

Sequential Acquisition of Color

Provides Color Even When Camera is in Binning Modes

Filter Element Easily Slides out of Optical Path (Slider Modules)

Hot-Mirror Filter

benefits

- High-quality color images with high-resolution monochrome CCD cameras
- Filter color changes with no moving parts
- No vibration
- No optical-registration problems

- Easy to install & use
- Controlled by QImaging cameras

- Full-resolution image in each color plane

- High sensitivity & speed

- Enables quick switch between full-color imaging & high-sensitivity monochrome imaging without refocusing

- Integrated filtering of infrared light provides better color fidelity

RGB Color Filter Specifications

Color States	Red, green, blue
Transmission	30% minimum*
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)

applications

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

RoHS



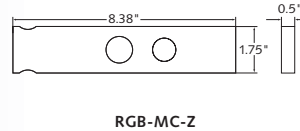
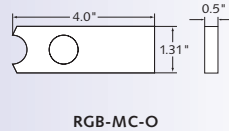
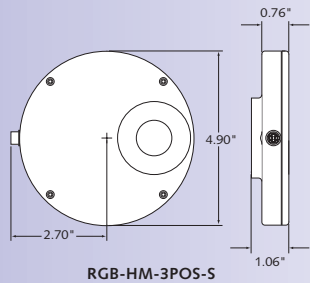
*Transmission is doubled for polarized light.
 Note: Specifications are nominal and subject to change.

Axioplan and Carl Zeiss are registered trademarks of Carl Zeiss, Inc.

Nikon is a registered trademark of Nikon Corporation.

Olympus is a registered trademark of Olympus Corporation.

Other brand and product names are the trademarks or registered trademarks of their respective owners and manufacturers.



Tel 604.530.5800 ■ Fax 604.539.1825 ■ info@qimaging.com
www.qimaging.com

04-0012C-E