Photometrics® QV2

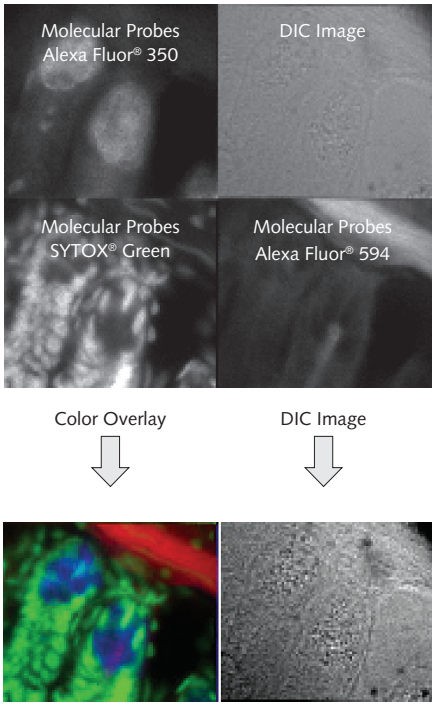
Four-Channel Simultaneous-Imaging System

The Photometrics® QV2™ allows simultaneous acquisition of up to four emission channels in a single exposure. The QV2 uses a series of beamsplitters to split the emission light from a microscope into four separate channels. All four channels are projected onto the CCD at the same time. Simultaneous multichannel imaging is critical for quantitative analysis of emission ratiometric data.

Features

- Simultaneous acquisition of up to four images
- Images can be separated by wavelength, polarization, or amplitude
- Easily mounts to most microscopes
- Improved adjustment control enables easier image alignment
- Redesigned aperture adjustments ensure apertures are parallel
- Uses standard 25-mm-diameter emission and polarization filters
- Bypass mode with bypass filter cube permits no-hassle, full-field imaging
- Exchangeable filter cube allows multiple applications to be run with minimal realignment
- Integrated, adjustable CCD mask minimizes ghosting
- Works with many Photometrics® and QImaging® cameras*

*Please contact your local representative to verify compatibility with specific cameras.



QV2 Specifications

Wavelength sensitivity	400 to 750 nm
Efficiency per image*	70 to 92%
Operation temperature	10 to 37°C
Detector attachment	C-mount (male)
Front attachment	C-mount (female)
External mounting option	¼-20 tapped hole on back of unit
Dimensions	2.5″ diameter x 7.5″ height
Weight	2.6 lbs
Filters	Emission/barrier, neutral density, polarization; 1″ (25.4-mm) max diameter; 7-mm max thickness
Patents	USA: 5,926,283 and 5,982,497; Australia: 731,476; Canada: 2,294,840; Other foreign patents pending

Applications

- **Fluorescence resonance energy transfer (FRET) imaging**
- **Multicolor single-molecule fluorescence (SMF) imaging**
- **Multiwavelength total internal reflection fluorescence (TIRF) imaging**
- **Fluorescence in situ hybridization (FISH) imaging**
- **Multichannel confocal microscopy when used in conjunction with a spinning-disk confocal**
- **Two-color polarization/anisotropy studies**
- **Simultaneous calcium and pH studies with indo-1 and SNARF**
- **Three-color fluorescence and DIC**
- **Polarized FRET analysis**
- **Simultaneous 3D imaging when lenses are used in place of emission filters**

* Transmission values are also modified by filter transmission.

Note: All specifications are typical and subject to change.

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