

# Photometrics® DV2

## DUAL-CHANNEL, SIMULTANEOUS- IMAGING SYSTEM

The Photometrics® DV2™ utilizes a single-beamsplitter design to split the emission light from a microscope into two independent channels. Each channel is projected onto half of the CCD at the same time. Simultaneous multichannel imaging is essential for FRET and other emission ratiometric applications.

### FEATURES

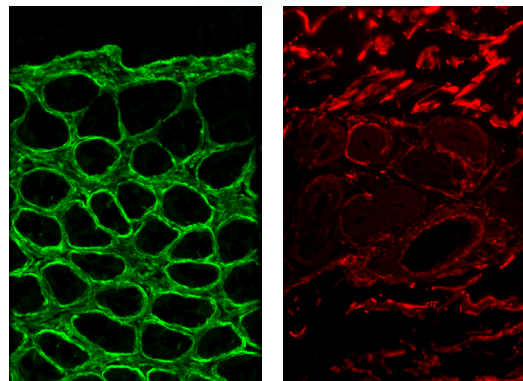
- Simultaneous acquisition of two emission channels
- Emission can be separated by wavelength, polarization, or amplitude
- Easily mounts to most microscopes
- Improved adjustment control enables easier image alignment
- Redesigned aperture adjustments ensure apertures are parallel
- Uses standard 25-mm-diameter emission and polarization filters
- Bypass mode 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.

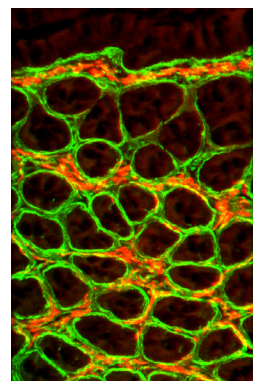


Green

Red



Ratio (Green/Red)



Ratiometric Analysis

DV<sup>2</sup> SPECIFICATIONS

Wavelength sensitivity	400 to 750 nm
Efficiency per image*	88 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; 0.39" (9.9-mm) max thickness
Patents	USA: 5,926,283 and 5,982,497; Australia: 731,476; Canada: 2,294,840; Other foreign patents pending

\* Transmission values are also modified by filter transmission.

Note: All specifications are typical and subject to change.

## APPLICATIONS

- Fluorescence resonance energy transfer (FRET) imaging
- Polarized FRET analysis
- Calcium imaging with fluo-3/Fura Red™ (Molecular Probes) or dual-emission indo-1 imaging
- Fluorescence polarization/anisotropy imaging
- Simultaneous fluorescence/DIC imaging
- Drug discovery with Cy3/Cy5
- Single-molecule fluorescence (SMF) imaging
- pH imaging with SNARF
- Multiwavelength total internal reflection fluorescence (TIRF) imaging
- Voltage sensing with di-4-ANEPPS
- Fluorescence *in situ* hybridization (FISH) imaging
- cAMP imaging with FICRHR
- Multichannel confocal microscopy when used in conjunction with a spinning-disk confocal



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