

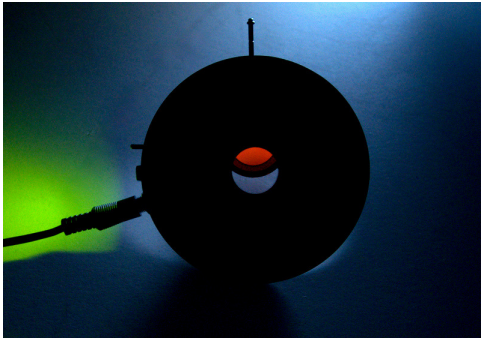
Camera Calibrator

CC-560



The CC-560 camera calibrator is a photo-stable light source which can replace the C-mount adapter normally used on almost any microscope phototube. The system can be placed in the light path when needed, or removed via a lever when normal imaging is performed. The calibrator can be used to:

- Confirm and quantify system performance
- Calibrate Camera EM Gain Levels
- Calibrate EM Gain Register
- Compare performance between multiple cameras
- Turn off & leave in place for camera background calculation

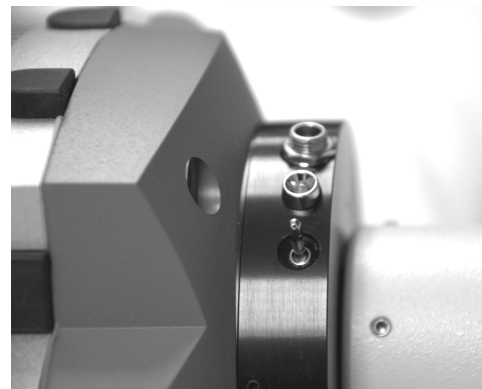


(Illuminator partially removed)

The calibrator can be mounted to a wide variety of microscope phototubes. The industry-standard C-mount adapter is compatible with a wide variety of cameras designed for microscopy. When used with the included software module, the calibrator can provide live image intensity correction, and output images in fully corrected electron values.

Software module is available for several popular imaging applications, including:

- NIS Elements
- Molecular Devices MetaMorph
- μ Manager



Performance & Specifications

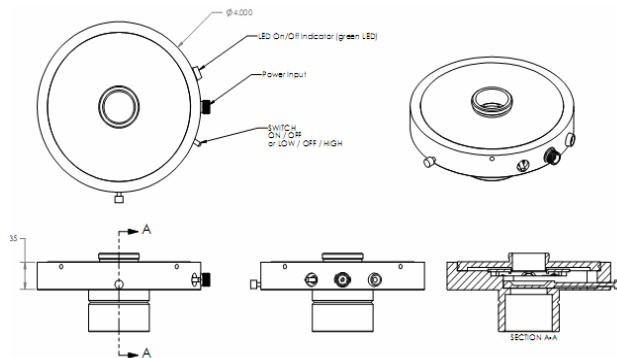
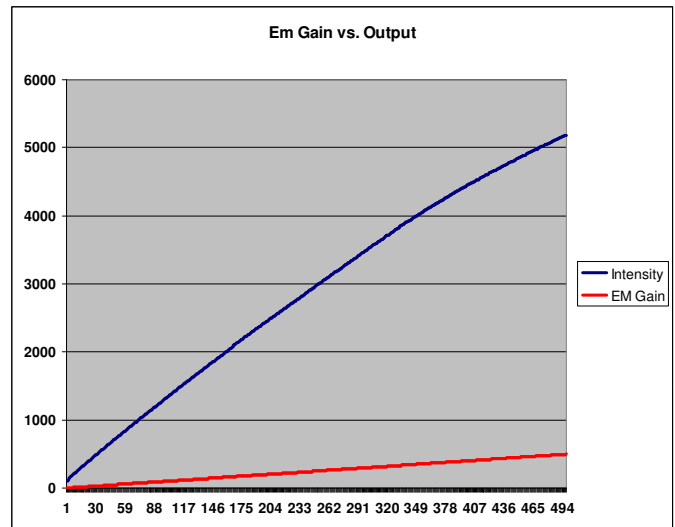
- Nonlinearity < 1%
- Low intensity red band emission (560nm)
- ISO C-Mount
- Clean image transmission in bypass mode (no additional optical surfaces)
- Active temperature compensation included for long time-lapse analysis

Supported Microscopes

- Nikon*
 - Olympus*
 - Zeiss*
 - Leica*
 - Custom adapters available upon request
- (*Microscope adapter types that use a projection lens are not supported)

Example Application

The graph at right shows image intensity measurements from an EM-CCD camera where the EM Gain value was increased by a digital input value of 1 per image acquired. Output slope can be used to calibrate small changes in gain linearity.



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