CILIKA®

Cilika Camera



PATENTED
Technology

A Product By medprime® Technologies Pvt. Ltd.

- **CILIKA-CAM-5.0-35GC: Cilika View 5.0 MP,**
  - USB3.0,
  - Pixel size: 3.45 μm × 3.45 μm
  - Sensor size: 2/3”
  - Frame rate: 35.6fps@2448 × 2048, 87.6fps@1224 × 1024
  - Global shutter
  - 1x/0.5x C-mount

- **CILIKA-CAM-3.1-55GC: Cilika View 3.1 MP**
  - USB3.0,
  - Pixel size: 3.45 μm × 3.45 μm
  - Sensor size: 1/1.8”
  - Frame rate: 55.4fps@2048 × 1536,115.1fps@1024 × 768
  - Global shutter
  - 1x/0.5x C-mount

- **CILIKA-CAM-10.3-COOL: Cilika View 10.3 MP**
  - USB3.0,
  - Pixel size: 4.63 μm × 4.63 μm
  - Sensor size: 4/3”
  - Frame rate:30.2fps@4128x2808
  - 38.5 fps@4096x2160, 69.5 fps@2048x1080, 96.1fps@1360x720
  - G Sensitivity DarkSignal 419mv with 1/30s
  - 0.12mv with 1/30s
  - Rolling shutter; Exposure 0.15ms~3600s
  - 1x/0.5x C-mount

- **CILIKA-CAM-6.3-58RC: Cilika View 6.3 MP**
  - USB3.0,
  - Pixel size: 2.4μm
  - Sensor size: 1/1.8”
  - Frame rate: 58.7fps@3072 × 2048, 59.5fps@1536 × 1024,
  - 1x/0.5x C-mount

- **CILIKA-CAM-8.0-30RC: Cilika View 8.0 MP**
  - USB2.0,
  - Pixel size: 2μm
  - Sensor size: 1/1.8”
  - Frame rate: 30fps@3840 × 2160,
  - HDMI2.0, wifi, LAN,
  - Cilika View Software: Camera control, calibration, and measurement
  - 1x/0.5x C-mount

- **CILIKA-CAM-8.0-60RC: Cilika View 8.0 MP**
  - USB3.0,
  - Pixel size: 2μm
  - Sensor size: 1/1.8”
  - Frame rate: 60fps@3840 × 2160,
  - HDMI2.0, wifi, LAN,
  - 1x/0.5x C-mount

Cilika View Software:

Professional camera control panel:

- **Exposure & Gain:** Auto exposure (exposure target preset) and manual exposure (exposure time can be inputted manually); Up to 5 times gain.
- **White Balance:** Advanced single-click intelligent white balance setting, temperature and tint can be manually adjusted.
- **Color Adjustment:** Hue, saturation, brightness, contrast, gamma initialization adjustment.
- **Frame Rate Control:** Adjustment of frame rate available for different computer configurations.
- **Power Frequency Setting(Anti-filcker):** Natural light/DC, AC 50 HZ, AC60 HZ switch function thoroughly eliminates video flicker.
- **Flip:** Check the “horizontal” or “vertical” option to correct the sample direction.
- **Skip and bin sampling:** Bin mode can obtain low noise video stream; Skip mode obtains sharper and smoother video stream. Support video stream histogram extension, Negative and positive switching, Gray calibration, Clarity factor for focusing etc.
- **Parameters:** Load, save, overwrite, import, export self-defined parameters of camera control panel (including calibration information, exposure and color setting information).

Practical functions:

- **Video functions:** Various professional functions: Video broadcast; Time lapse capture; Video record; Video watermark; Move watermark; Rotate watermark; Video stream grid; Video measurement; Video calibration, Gray calibration; Video EDF; Image stitch; Video scale bar, date and etc..
- **Image Processing and Enhancement:** Control and adjust image by contrast, denoise, all kinds of filtering algorithm and mathematical morphology algorithm; image rotate, image scale, image print.
- **2D Measurement:** Easy video or image calibration. Various video and image measurement methods like area, perimeter, angle etc.. Measurement results can be hierarchical controlled according to characteristics or preferences.
- **Image Stitching:** Image stitching can automatically combine a sequence of relevant images into a perfect larger one. No requirement on the image order, Support video window, image window, browse window image stitching operation.
- **EDF(Extended Depth of Focus):** Aimed at generating a clearer image by combining a sequence of previously captured multi-focus images; Support video window, image window, browse window EDF operation. Provided with maximum contrast, weighted average, FFDSSD algorithms to meet with most applications. Consider image shift, rotation and scale in the EDF process to guarantee EDF accuracy & speed.
- **Professional Segmentation & Count function:** Integrate the advanced 6 image segmentation and particle counting algorithm (Watershed (W), OTSU Dark, OTSU Bright, RGB Histogram, HSV Histogram and Color Cube). Manual segmentation function (Split objects) ensures the success of a complete segmentation. The count result can be exported to Microsoft Excel for further analysis.
- **Image Stacking:** Image stacking adopts advanced image matching technology. With the recorded video, regardless of shifting, rotation, scaling, the high fidelity image can be stacked to decrease the image noise.
- **Color Composite:** Color composite adds appropriate pseudo color to monochrome fluorescence images. Fluorescence probe and color can be chosen from the pre-defined database. Dye database can also be easily created for special fluorescence probe.

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