



LEOPARD IMAGING INC

# LI-USB30-P031XB

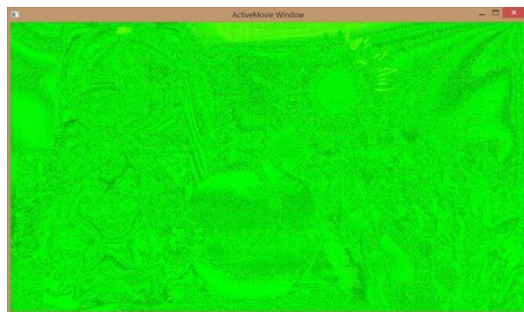
## Data Sheet

### Applications

- Machine Vision
- Medical Camera
- Scientific Camera

### SDK Supported

- Camera Tool Source Code in C#
- Capture & Display
- OpenCV supported through Emgu
- RAW to RGB Conversion
- Save file as BMP & RAW format



RAW data streaming



### Key Features

- USB 3.0 Super Speed support
- RAW data output without compression
- UVC compliance
- USB 2.0 backwards compatible
- Support External Trigger, Software Trigger
- Support CS lens (Not include Lens)
- Provide customization services
- USB +5VDC powered device
- Part#:  
LI-USB30-P031CB (Color)  
LI-USB30-P031MB (Mono)



Camera Tool view mode



Leopard Imaging Inc.

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# Specification

|                               |                                                                    |
|-------------------------------|--------------------------------------------------------------------|
| General Behavior              |                                                                    |
| Video Resolution @ Frame rate | 2592 x 1944 @ 10 fps<br>1920 x 1080 @ 30 fps<br>640 x 480 @ 30 fps |
| Sensitivity                   | 1.4 V/lux-sec                                                      |
| Dynamic range                 | 12 bit                                                             |
| Trigger mode                  | External Trigger, Software Trigger                                 |
| Interface (Optical)           |                                                                    |
| IR cut filter                 | Yes                                                                |
| Sensor specification          | Aptina MT9P031 5M pixels Sensor                                    |
| Shutter                       | Rolling                                                            |
| Format                        | 1/2.5"                                                             |
| Resolution                    | H:2592, V:1944                                                     |
| Pixel size                    | H:2.2 um, V: 2.2 um                                                |
| Lens mount                    | CS lens mount support                                              |
| Interface (Electrical)        |                                                                    |
| Interface                     | USB 3.0                                                            |
| Supply voltage                | USB 3.0 +5 VDC power source                                        |
| Current consumption           | Approx. 245 mA at 5 VDC                                            |
| Interface (Mechanical)        |                                                                    |
| Dimensions                    | L: 30 mm, W: 30 mm, H: 30 mm                                       |
| Mass (without lens)           | 30 g                                                               |
| Adjustment (Manual)           |                                                                    |
| Shutter                       | Support                                                            |
| Gain                          | Support                                                            |
| Adjustment (Auto)             |                                                                    |
| Shutter                       | Support                                                            |
| Gain                          | TBD                                                                |
| Environmental                 |                                                                    |
| Max. temperature (operation)  | 0 °C ~ 50 °C (32 °F~ 122 °F)                                       |
| Max. temperature (storage)    | -20 °C ~ 80 °C (-4 °F~176 °F)                                      |
| Max. humidity (operation)     | 20 % ~ 80 %, relative, non-condensing                              |
| Max. humidity (storage)       | 20 % ~ 80 %, relative, non-condensing                              |



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