



LEOPARD IMAGING INC

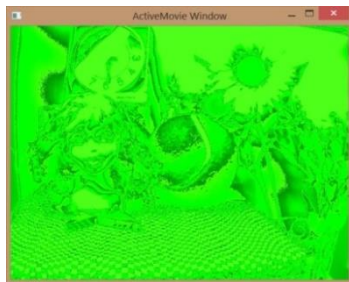
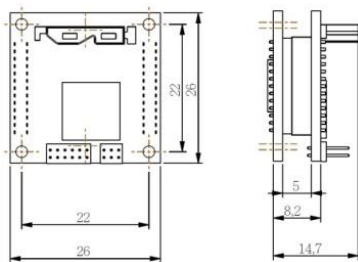
Rev. 1.2

# LI-USB30-V034M

## Data Sheet

### 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 either CS or M12 lens
- Provide customization services
- USB +5VDC powered device
- Compact Size: 26mmx26mm
- 2 Boards are stacked



RAW data streaming



Camera Tool view mode



### Default Lens Specification

- Model: M13B0618IR
- Image format: 1/3"
- Focal length: 6.0 mm
- Aperture, F/#: 1.8
- IR cut filter: No
- FOV (D/H/V): 60 ° / 48 ° / 34.5 °

### 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
- Register access



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# Specification

|                               |   |
|-------------------------------|---|
| General Behavior              |   |
| Video Resolution @ Frame rate | 640 x 480 @ 60 fps<br>320 x 240 @ 120 fps       |
| Sensitivity                   | 4.8 V/lux-sec                                   |
| Dynamic range                 | 10 bit  |
| Trigger mode                  | External Trigger, Software Trigger              |
| Interface (Optical)           |   |
| IR cut filter                 | No  |
| Sensor specification          | Aptina MT9V034 Global Shutter WVGA Sensor       |
| Shutter                       | Global  |
| Format                        | 1/3"  |
| Resolution                    | H:752, V:480                                    |
| Pixel size                    | H:6.0 um, V: 6.0 um                             |
| Color                         | Monochrome                                      |
| Lens mount                    | CS / M12 lens mount support (Default: M12 lens) |
| M12 Lens                      | 6.0 mm (default), 4.2 mm, 2.6 mm Focal Length   |
| Interface (Electrical)        |   |
| Interface                     | USB 3.0   |
| Supply voltage                | USB 3.0 +5 VDC power source                     |
| Current consumption           | Approx. 130 mA at 5 VDC                         |
| Interface (Mechanical)        |   |
| Dimensions                    | L: 26 mm, W: 26 mm, H: 38 mm                    |
| Mass                          | 22 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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