



LEOPARD IMAGING INC

# LI-USB30-M034WDRB

## Data Sheet

### Overview

Leopard Imaging USB 3.0 camera is new generation super speed USB Video camera which supports more than 3G video bandwidth to stream 720p 55fps video without compression, it provides sharper and high quality images for scientific and medical industries, Global shutter camera can support high speed conveyor line for machine vision application, lossless image quality and low latency streaming is great for video conference camera industry.

### Applications

- Machine Vision
- Medical Camera
- Video Conference
- Scientific Camera



### Key Features

- USB 3.0 Super Speed support
- YUV or RAW data output without compression
- UVC compliance
- USB 2.0 backwards compatible
- Support CS lens (Not include Lens)
- Provide customization services
- Support WDR
- USB +5VDC powered device

### SDK Supported

- Camera Tool Source Code in C#
- Capture & Display



Leopard Imaging Inc.

1130 Cadillac Ct., Milpitas, CA 95035, USA  
Phone: +1-408-263-0988  
Fax: +1-408-217-1960  
Email: sales@leopardimaging.com  
Website: www.leopardimaging.com  
www.leopard-security.com

# Specification

|                               |                                                                                                                                                                                                                                                       |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| General Behavior              |                                                                                                                                                                                                                                                       |
| Video Resolution @ Frame rate | 1280 x 960 @ 30 fps, WDR<br>1280 x 960 @ 15 fps, WDR<br>1280 x 960 @ 10 fps, WDR<br>1280 x 720 @ 55 fps, WDR<br>1280 x 720 @ 30 fps, SDR<br>1280 x 720 @ 10 fps, WDR<br>640 x 480 @ 30 fps, SDR<br>640 x 480 @ 20 fps, SDR<br>640 x 480 @ 10 fps, SDR |
| Sensitivity                   | TBD                                                                                                                                                                                                                                                   |
| Dynamic range                 | 12 bit                                                                                                                                                                                                                                                |
| Interface (Optical)           |                                                                                                                                                                                                                                                       |
| IR cut filter                 | Yes                                                                                                                                                                                                                                                   |
| Sensor specification          | Aptina MT9M034 720p HD Sensor                                                                                                                                                                                                                         |
| Shutter                       | Rolling                                                                                                                                                                                                                                               |
| Format                        | 1/3"                                                                                                                                                                                                                                                  |
| Resolution                    | H:1280, V:960                                                                                                                                                                                                                                         |
| Pixel size                    | H:3.75 um, V: 3.75 um                                                                                                                                                                                                                                 |
| WDR                           | Support WDR (Wide Dynamic Range)                                                                                                                                                                                                                      |
| Lens mount                    | CS lens mount support                                                                                                                                                                                                                                 |
| Interface (Electrical)        |                                                                                                                                                                                                                                                       |
| Interface                     | USB 3.0                                                                                                                                                                                                                                               |
| Supply voltage                | USB 3.0 +5 VDC power source                                                                                                                                                                                                                           |
| Current consumption           | Approx. 220 mA at 5 VDC                                                                                                                                                                                                                               |
| Interface (Mechanical)        |                                                                                                                                                                                                                                                       |
| Dimensions                    | L: 30 mm, W: 30 mm, H: 30 mm                                                                                                                                                                                                                          |
| Mass (without lens)           | 30 g                                                                                                                                                                                                                                                  |
| Adjustment (Manual)           |                                                                                                                                                                                                                                                       |
| Shutter                       | TBD                                                                                                                                                                                                                                                   |
| Gain                          | TBD                                                                                                                                                                                                                                                   |
| Adjustment (Auto)             |                                                                                                                                                                                                                                                       |
| Shutter                       | TBD                                                                                                                                                                                                                                                   |
| 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                                                                                                                                                                                                                 |
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