



LEOPARD IMAGING INC

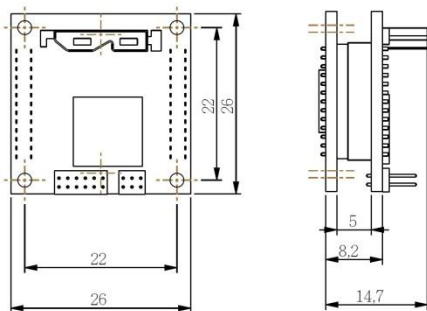
Rev. 1.0

# LI-USB30-M114

## Data Sheet

### Key Features

- USB 3.0 Super Speed support
- YUV output without compression
- UVC compliance
- USB 2.0 backwards compatible
- Provide customization services
- USB +5VDC powered device
- Electronic rolling shutter (ERS)
- Ultra-low-power
- Compact Size: 26mmx26mm
- 2 Boards are stacked



### Lens Specification

- Focus range: 60cm to Infinity
- Focal length: 2.54 mm
- Aperture, F/#: 2.8
- Built in 650nm IR cut filter
- TV distortion: < 1%
- FOV (D): 60°

### Applications

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

### SDK Supported

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



Leopard Imaging Inc.

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# Specification

|                               |                                                             |
|-------------------------------|-------------------------------------------------------------|
| General Behavior              |                                                             |
| Video Resolution @ Frame rate | 1280 x 720 @ 30 fps (USB3.0)<br>640 x 480 @ 16 fps (USB2.0) |
| Interface (Optical)           |                                                             |
| IR cut filter                 | Yes                                                         |
| Sensor specification          | ON SEMI MT9M114 720p HD Sensor                              |
| Shutter                       | Electronic rolling shutter (ERS)                            |
| Format                        | 1/6"                                                        |
| Resolution                    | H:1296, V:976                                               |
| Pixel size                    | H:1.9 um, V: 1.9 um                                         |
| Color filter array            | RGB Bayer                                                   |
| Responsivity                  | 2.24 V/lux-sec(550 nm)                                      |
| Interface (Electrical)        |                                                             |
| Interface                     | USB 3.0                                                     |
| Supply voltage                | USB 3.0 +5 VDC power source                                 |
| Current consumption           | Approx. 118 mA at 5 VDC                                     |
| Interface (Mechanical)        |                                                             |
| Dimensions                    | L: 26 mm, W: 26 mm, H: 13 mm                                |
| Mass                          | 10 g                                                        |
| Adjustment (Manual)           |                                                             |
| Shutter                       | TBD                                                         |
| Gain                          | TBD                                                         |
| Brightness                    | Support                                                     |
| 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                       |
| Max. humidity (storage)       | 20 % ~ 80 %, relative, non-condensing                       |



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