



LEOPARD IMAGING INC

# LI-USB30-IMX477

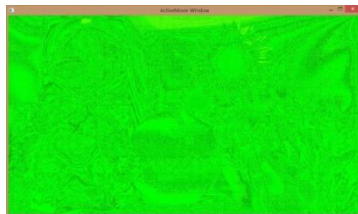
## Data Sheet

### Key Features

- USB 3.0 Super Speed support
- RAW data output without compression
- UVC compliance
- Color camera
- Support M12 / CS lens
- Provide customization services
- USB +5VDC powered device
- Part#: **LI-USB30-IMX477**

### Default Lens Specification

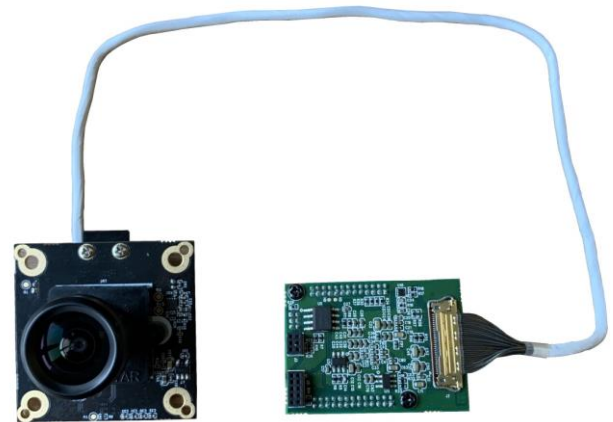
- Model: SYD1201A
- Focal length: 3.7 mm
- Aperture, F/#: 2.8 +/- 5%
- Built in 650nm IR cut filter
- FOV (D/H/V): 100 °/ 86 °/69 °
- TV Distortion: -1.0 %
- Mount: M12 x P0.5



RAW data streaming



Camera Tool view mode



### BOM

#	Items	QTY
1	LI-IMX477-MIPI	1
2	LI-USB30 Main board	1
3	LI-CSLINK-IPX-TESTER	1
4	FAW-1233-02 (200mm)	1

### Applications

- Machine Vision
- Medical Camera
- Scientific Camera

### SDK Supported

- Camera Tool Source Code in C#
- Capture & Display
- RAW to RGB Conversion
- Save file as BMP & RAW format
- Color Matrix
- Register access function



Leopard Imaging Inc.

48820 Kato Road, Suite 100B, Fremont, CA 94538, USA  
Phone: +1-408-263-0988  
Fax: +1-408-217-1960  
Email: sales@leopardimaging.com  
Website: www.leopardimaging.com

# Specification

General Behavior		
Video Resolution @ Frame rate	4056 x 3040 @ 12 fps	
Bit Depth	10-bit	
Interface (Optical)		
IR cut filter (on lens)	Yes, 650nm IR cut filter	
Sensor specification	Sony Diagonal 7.857 mm (Type 1/2.3) CMOS Image Sensor IMX477	
Shutter	Rolling	
Color/Mono	Color	
Format	1/2.3"	
Total number of pixels	H: 4056, V:3040	
Pixel size	H:1.55 $\mu$ m, V: 1.55 $\mu$ m	
Lens mount	CS / M12 lens mount support (Default: M12 lens)	
Interface (Electrical)		
Interface	USB 3.0	
Supply voltage	USB 3.0 +5 VDC power source	
Current consumption	TBD	
Interface (Mechanical)		
Dimensions	LI-IMX274-MIPI	L: 38 mm, W: 38 mm
	USB 3.0 MIPI Tester	L: 36.5 mm, W: 2 mm
Mass	32 g	
Adjustment (Manual)		
Shutter	TBD	
Gain	TBD	
Register Access	Yes	
Adjustment (Auto)		
Shutter	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	
Supported OS		
Windows OS, Standard Linux OS and other OS with full UVC drivers		



Leopard Imaging Inc.

48820 Kato Road, Suite 100B, Fremont, CA 94538, USA  
Phone: +1-408-263-0988  
Fax: +1-408-217-1960  
Email: sales@leopardimaging.com  
Website: www.leopardimaging.com

## Revision History

Revision	Description	Release Date
1.0	First Release	13. May. 2019



Leopard Imaging Inc.

48820 Kato Road, Suite 100B, Fremont, CA 94538, USA  
Phone: +1-408-263-0988  
Fax: +1-408-217-1960  
Email: [sales@leopardimaging.com](mailto:sales@leopardimaging.com)  
Website: [www.leopardimaging.com](http://www.leopardimaging.com)