LIPS

3D MACHINE VISION PLATFORM

LIPSedge Series 3D Cameras

HARDWARE DATASHEET

Specifications   DL

This sturdy flagship is built to be a ready-to-use versatile ToF camera that can function precisely both indoors and outdoors. It works straight out of the box by plugging this little magic to a host running Windows, Linux, or Android through USB 3.0 Micro-B interface.

Depth

Operating Range:	Near Mode: 20cm~1.2m Normal Mode: 1m~4m	**Modes:**	Near Mode Normal Mode Outdoor Mode (upon request)
Resolution:	VGA@30fps (up to 60fps upon request)	**Accuracy:**	Up to < 1% of measured distance
FoV (H x V x D):	75.4° x 60.2° x 88°	**Aperture:**	f/1.2

RGB

Resolution:	FHD@30fps	**FoV (H x V x D):**	79° x 50° x 88°

Illumination

Type:	EEL x 2	**Wavelength:**	850nm

General

Dimension:	113mm x 36.5mm x 27.1mm	**Interface:**	USB 3.0
Power:	4.7W		

Environment

Indoor & Outdoor (for detection under sunlight)

OS

Windows / Linux / Android / macOS (upon request)

Output Format

YUV / MJPG

CE FC

- Specifications are subject to change without notice.
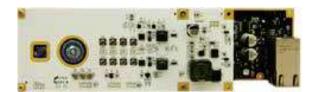- Operating ranges and accuracy can be scene dependent.

3D MACHINE VISION PLATFORM

LIPSedge Series 3D Cameras

HARDWARE DATASHEET

Specifications   AT

This is our first of its kind all-in-one standalone FPGA-based ToF camera ready to function as a smart camera independently. The patented onboard SDK software (already pre-installed in the module) guarantees that you'll enjoy its lightning fast and surefooted response.

Depth

Operating Range:	0.5 ~ 8m	**Accuracy:**	< 1.5% of measured distance
Resolution:	VGA@30fps	**Aperture:**	f/1.2
FoV (H x V x D):	75° x 58° x 88°		

RGB

Resolution:	FHD@15fps	**FoV (H x V x D):**	68.9° x 54.7° x 81.3°

Illumination

Type:	LED x 8	**Wavelength:**	850nm

General

Dimension:	190 x 50x 56mm	**Interface:**	PoE or USB 2.0 Micro B
Power:	15W		

Environment

Indoor

Output Format

N/A

OS

Windows / Linux / Android / macOS

- Specifications are subject to change without notice.
- Operating ranges and accuracy can be scene dependent.

LIPSedge Series 3D Cameras

HARDWARE DATASHEET

Specifications   M3

Same as its larger cased sibling, the DL, using similar sensing technology, M3 has clearly advanced into a more compact form that is neater in size as well as pioneering an innovative modular design specifically targeting embedded system that can function precisely both indoors and outdoors. Furthermore, this little piece also has built-in IMU (accelerometer and gyroscope) that allows for more applications.

Depth

Operating Range:	0.2 ~ 4m	**Accuracy:**	< 1.5% of measured distance
Resolution:	80×60@120fps	**Aperture:**	f/1.2
FoV (H x V x D):	74.1° x 57.5° x 92°		

RGB

Resolution:	N/A	**FoV (H x V x D):**	N/A

Illumination

Type:	LED x 2	**Wavelength:**	850nm

General

Dimension:	37 x 28 x 15mm	**Interface:**	USB 2.0 Micro B
Power:	4W		

Environment

Indoor & Outdoor

Output Format

YUV / MJPG

OS

Windows / Linux / Android / macOS

- Specifications are subject to change without notice.
- Operating ranges and accuracy can be scene dependent.

LIPSedge Series 3D Cameras

HARDWARE DATASHEET

Specifications   M5

This compact-sized active-stereo based depth module is aimed at mobile integration. It's designed with applications that are sensitive to nonuniformity of depth error in mind such as handheld 3D scanning. With its built-in DSP, it gives you precision depth map right out of the box with minimal latency and power consumption through USB3 or MIPI interfaces. Same as all other LIPSedge seriese, its active IR projection allows for indiscriminative day-and-night performance that most of the vision-based applications long for.

Depth

Operating Range:	0.3 ~ 4m	**Accuracy:**	< 1.5% of measured distance
Resolution:	640x480@60fps	**Aperture:**	f/2.2
FoV (H x V x D):	60° x 47°		

RGB

Resolution:	1600X1200	**FoV (H x V x D):**	TBD

Illumination

Type:	VCSEL x 2	**Wavelength:**	850nm

General

Dimension:	70 x 15 x 5(mm)	**Interface:**	USB 3.0 Micro B / MIPI
Power:	1.2W		

Environment

Indoor & Outdoor

Output Format

MJPG

OS

Windows / Linux / Android

- Specifications are subject to change without notice.
- Operating ranges and accuracy can be scene dependent.