

The Active Stereo 3D Camera

LIPSedge™ AE400



LIPSedge™ AE400 is the active stereo 3D camera, designed for workplace safety and access control, vision guided robotic (VGR), agriculture and live stock farming, or 3D measurement and inspection applications. Equipped with GigE Ethernet interface allows images and control data transmission over the distance in up to 100 meters; furthermore, GigE achieves PoE (Power over Ethernet) feature to eliminate the need for a separate power supply and cable. LIPSedge™ AE400 also meets the requirements for IP67 classification and is therefore protected against dirt, dust, or water splashes.

LIPSedge™ AE400 has a built-in IMU (Inertial Measurement Unit) includes a 3-axis accelerometer and a 3-axis gyroscope for providing an extra set of positional data in addition to the data frames from the depth and image sensors. This combined data sets would enable application features in more versatile and complicated use cases such as robotics, image deblurring, dense geographical reconstruction, Augmented Reality/Virtual Reality/Mixed Reality, and others.

Features

- Support GigE with PoE which allows data transmission and power supply over distance in up to 100 meters
- Ruggedized enclosure with IP67 classification, designed for stringent environment
- Built-in IMU for additional applications
- Fully compatible with RealSense™ SDK ensures seamless migration of existing applications
- Support of LIPS® strong middleware portfolio



Specifications



Depth	Technology	Active Stereo
	Working Distance	0.16 m – 10 m (Max.)
	XY Resolution	1280x720@30fps, 640x480@60fps
	Frame Rate	Up to 60fps
	FoV (H x V x D)	65° x 40° x 72°
	Shutter Type	Rolling Shutter
	Z Accuracy	≤ 2% (up to 2 meters and 80% of FoV)
RGB	Resolution	1920x1080@15fps, 1280x720@30fps, 640x480@60fps
	FoV (H x V x D)	69.4° x 42.5° x 77°
	Shutter Type	Rolling Shutter
Illumination	Type	Infrared
Sensor	IMU	3-axis accelerator & 3-axis gyroscope
General	Dimension[mm]	135 x 100 x 42mm
	IP Rating	IP67
	Operating Temperature	0 ~ 40°C
	Storage Temperature	-20 ~ 60
	Power	PoE (IEEE 802.3 AF/AT) / Power Adapter (DC 12V, 2A)
	Mounting Mechanism	<ul style="list-style-type: none"> · 1/4" camera screw compatible (1/4-20UNC) · 4 x M5 thread 70 x 70 mm mounting points (Optional VESA 75 x 75 mm adapter)
Output	Communication Interface	Gigabit Ethernet (RJ-45 connector)
Software	Supported OS	Windows 10, Linux Ubuntu 18.04 / 16.04 LTS
	Supported SDK	<ul style="list-style-type: none"> · Intel® RealSense™ SDK 2.0 w/LIPS® GbE Static Library · Language / Framework wrappers for Intel® RealSense™ Technology · NVIDIA ISAAC / ROS
Environment		Indoor / Outdoor

