Industrial 3D Camera
LIPSedge™ AE400

LIPSedge™ AE400 industrial stereo camera is 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 industrial environment
- Built-in IMU for additional applications
- Fully compatible with RealSense™ SDK ensures seamless migration of existing applications
- Support of LIPS® strong middleware portfolio

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www.lips-hci.com
info@lips-hci.com
+886-2-87916998

Specifications

Depth	Technology	Active Stereo
	Max. Working Distance	10m
	Min. Working Distance	0.16m
	XY Resolution	1280x720@30fps, 640x480@60fps
	Frame Rate	Up to 60fps
	Shutter Type	Rolling Shutter
	FoV (H x V x D)	65° x 40° x 72°
	Z Accuracy	≤ 2% (up to 2 meters and 80% of FoV) *The Accuracy will vary with distance.
RGB	Resolution	1920x1080@15fps, 1280x720@30fps, 640x480@60fps
	FoV (H x V x D)	69.4° x 42.5° x 77°
Illumina on	Type	Infrared
	Wavelength	850nm
Sensor	6-axis IMU	3-axis accelerator & 3-axis gyroscope
General	Dimension[mm]	135 x 100 x 42mm
	Dustproof and Drip-proof	IP67
	Operating Temperature	0 ~ 40°C
	Storage Temperature	-40 ~ 70°C
	Power	PoE (IEEE 802.3AT) / Power wire (DC 12V, 2A)
	Mounting Mechanism	· 1/4" camera screw compatible (1/4-20UNC) · 4 x M5 thread 70x70mm mounting points (optional VESA 75x75mm adapter)
Output	Communication Interface	Gigabit Ethernet
SDK		· Intel® RealSense™ SDK 2.0 w/LIPS® GbE Static Library · Language / Framework wrappers for Intel® RealSense™ Technology · Other wrappers and tools * For the latest software support information, visit LIPSedge™ AE400 product page on LIPS® website.
OS		· Windows 10 · Ubuntu 16.04/18.04 LTS
Environment		Indoor / Outdoor

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