

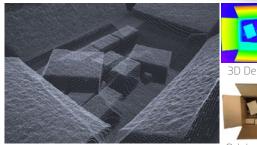






Sony DepthSense IMX556 with 6.0mm lens, 59° x 45°FoV





R

3D Point Cloud

Original Scene

## Helios ToF Camera Models

Model	МР	Resolution	FPS	Sensor	Format	Pixel Size	Lens Mount	Chroma	GigE Interface	Power Supply
HLS003S-001	0.3 MP	640 x 480 px	30 fps	Sony DepthSense IMX556 CMOS	1/2″	10 µm	Integrated 6mm focal length lens	Mono	M12	none
HLS-BUN-US1	0.3 MP	640 x 480 px	30 fps	Sony DepthSense IMX556 CMOS	1/2″	10 µm	Integrated 6mm focal length lens	Mono	M12	NA included
HLS-BUN-EU1	0.3 MP	640 x 480 px	30 fps	Sony DepthSense IMX556 CMOS	1/2″	10 µm	Integrated 6mm focal length lens	Mono	M12	EU included

## Helios ToF Embedded Module: Preliminary Specifications\*\*

Model	МР	Resolution	FPS	Sensor	Format	Pixel Size	Lens Mount	Output	Interface
Helios ToF Embedded	0.3 MP	640 x 480 px	30 fps	Sony DepthSense IMX556 CMOS	1/2″	10 µm	Integrated S-Mount	3D Point Cloud, Intensity and Confidence	MIPI (FFC)



\*\*For more Helios Embedded specs please see our Preliminary Datasheet

Sony DepthSense for NVIDIA® JETSON™ TX2







## Specifications

Interface, Power, and Size Information					
Digital Interface	1000BASE-T GigE, M12 X-coded				
GPIO Interface	8 pin M8 connector				
Opto-Isolated I/O Ports	1 input, 1 output				
Non-Isolated I/O Ports	2 bi-directional				
Dimensions	55 x 55 x 77.7 mm				
Lens Mount	Integrated lens with 6mm focal length (not user changeable)				
Weight	254 g				
Power Requirement	18-24 V through GPIO				
Power Consumption	< 15W				

Standard and Certifications				
Standard	GigE Vision v2.0, GenlCam 3D			
Compliance	CE, FCC, RoHS, REACH, WEEE, Eye Safety Class 1 IEC/EN 60825-1:2014			
Operating Temperature	-10 to 60°C			

Imaging Properties					
Working Ranges	Near mode: up to 1.5m Far mode: up to 6m				
Accuracy	Less than 5mm (0.3m to 1.5m)				
Precision	Standard deviation less than 2mm at 1m				
Lens Field of View	59° x 45° (nominal)				
Illumination	4 x VCSEL laser diodes @ 850nm				
Camera Features					
User Sets	default and 2 custom				
Exposure Control I	Manual				
Output Formats	BD Point Cloud, Intensity and Confidence				
OS Support	Vindows and Linux				
Software Support	Arena SDK, C++, C, C#, Python				

## Helios ToF Camera Drawings

