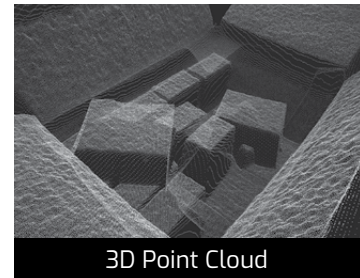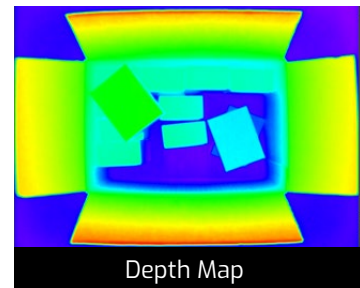# Helios™ Embedded

Time-Of-Flight (ToF) Camera with Sony DepthSense for NVIDIA® JETSON™ TX2

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3D Point Cloud

Depth Map

Original Scene

Preliminary Specifications

Model	MP	Resolution	FPS	Sensor	Format	Pixel Size	Lens Mount	Output	Interface
Helios ToF Embedded	0.3 MP	640x480 px	30 fps	Sony DepthSense™ IMX556PLR CMOS	1/2"	10 µm	Integrated S-Mount	3D Point Cloud, Intensity and Confidence	MIPI (FFC)

Physical, Interface, and Power Information

Digital Interface	4-Lane MIPI D-PHY CSI-2 (FFC)
Dimension	55 x 55 x 43.7 mm
Lens Mount	Integrated S-mount lens with 6mm focal length (not user changeable)
Weight	107 g
Power Consumption	< 15 w

Imaging Properties

Working Range	Near Mode: up to 1.5m Far Mode: up to 6m
Accuracy	Less than 5mm (0.3m to 1.5m)
Precision	Less than 2mm at 1m
Lens Field of View	59° x 45° (nominal)
Illumination	4 x VCSEL laser diodes @ 850nm

Standard and Certifications

Compliance	CE, FCC, RoHS, REACH, WEEE, Eye Safety Class 1 IEC 60825-1:2014
Operating Temperature	-10° C to 60° C case temperature

Camera Features

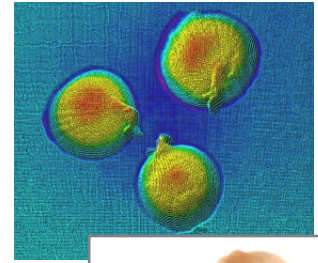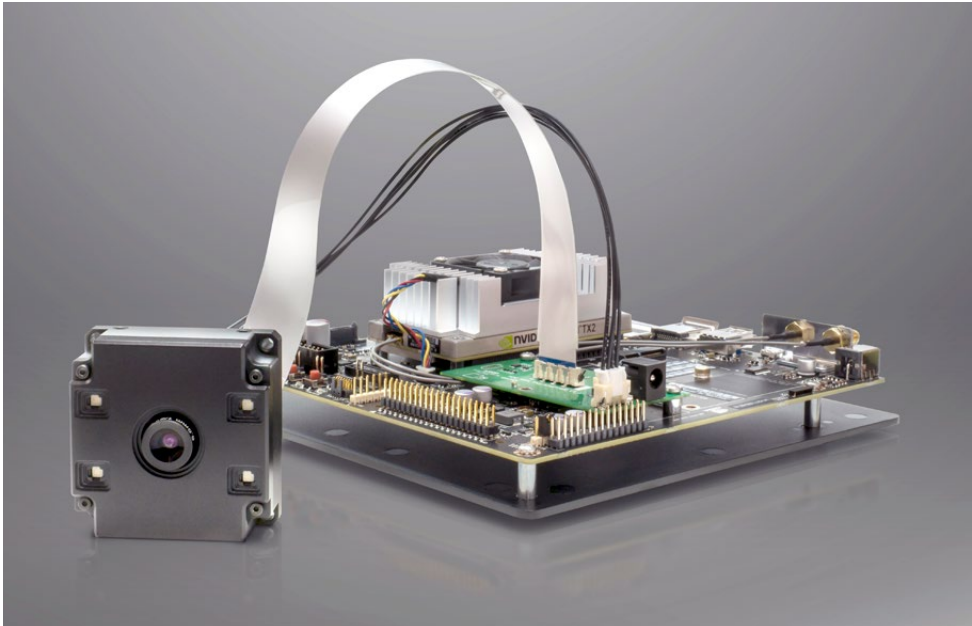|	
Exposure Control	Manual
Output Formats	3D Point Cloud, Intensity and Confidence
Platform Support	NVIDIA Jetson TX2 Contact LUCID for other platform support
What's Included	• Helios Embedded • Camera adapter board • FFC cable • Power cable from camera board to Helios • AC power adapter • Software driver, SDK (GPU accelerated library) and sample source codes.

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www.thinklucid.com
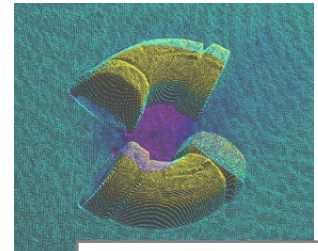
Helios™ Embedded

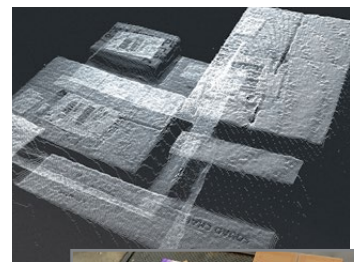Time-Of-Flight (ToF) Camera with Sony DepthSense for NVIDIA® JETSON™ TX2

Onions

White PVC pipes

Boxes on pallet

LENS

55

55

4X LASER APERTURES

3   40.7

FFC CONNECTOR

STATUS LED

POWER SUPPLY CONNECTOR

2X M4 - 6H ⤓ 7 MIN

35

17.7

Preliminary Specifications