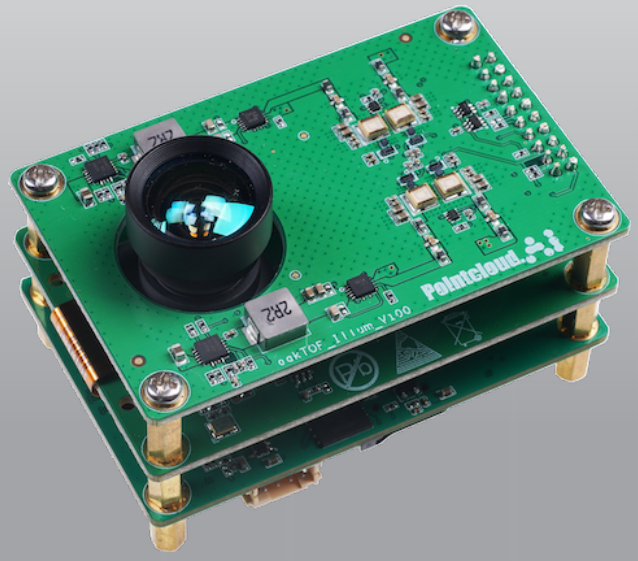


VGA resolution TOF camera

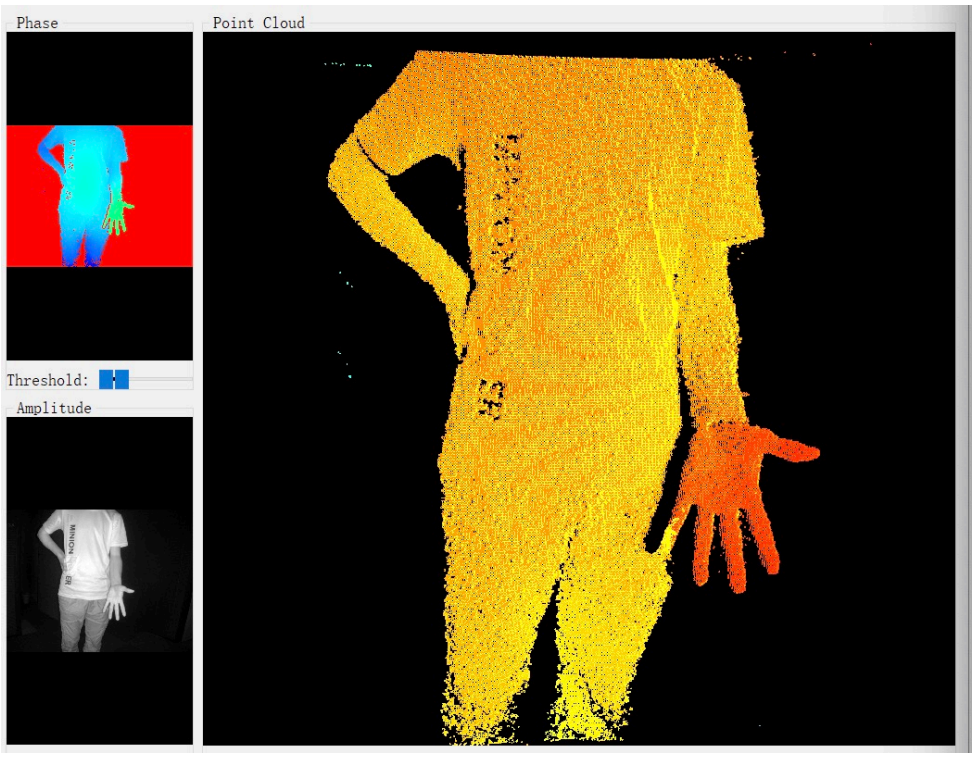
OakSense H67V

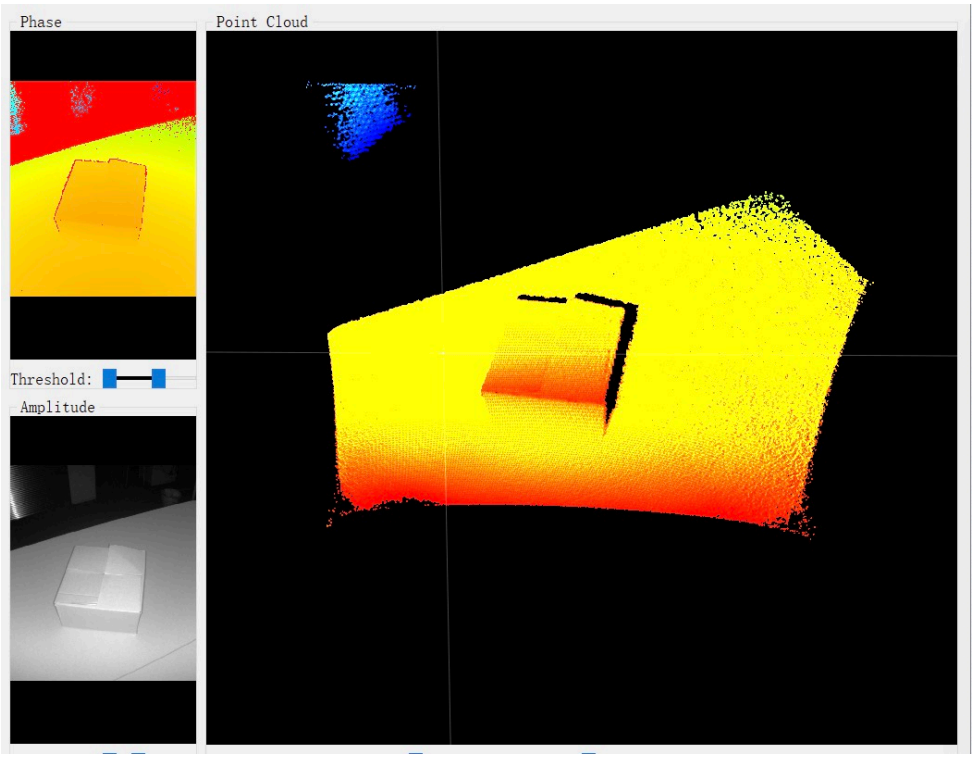
Application Scenarios:
Robot obstacle avoidance, volume measurement, Gesture recognition ,Environment scanning and 3D re-modeling,object recognition, etc

Model	OakSense H67V
Sensor	MLX75027
Resolution/FPS	0.3MP 640 x 480 px/ Max 30 FPS
Dimension	L:78 x W:48 x H:40 mm
Accuracy	±10mm < 1.0 meter ±5mm+ 0.5% of depth when >= 1.0 meter
Temporal Noise	Standard deviation less than 2mm at 1m Standard deviation less than 4mm at 2m Standard deviation less than 10.5mm at 4m (See Appendix for detailed data)
Measured Range	0.5m up to 4.0m
FOV	H67° x V51°
Data interface	USB 3.1 Gen1 /Type C
Power Consumption	12V/ 1A (Peak) /0.5A(Average)
Illumination	4 x VCSEL @ 850nm
Operating Temperature	-10°C – 60°C
Platform Support	Windows/Linux/Mac
SDK Language Support	C++/Python

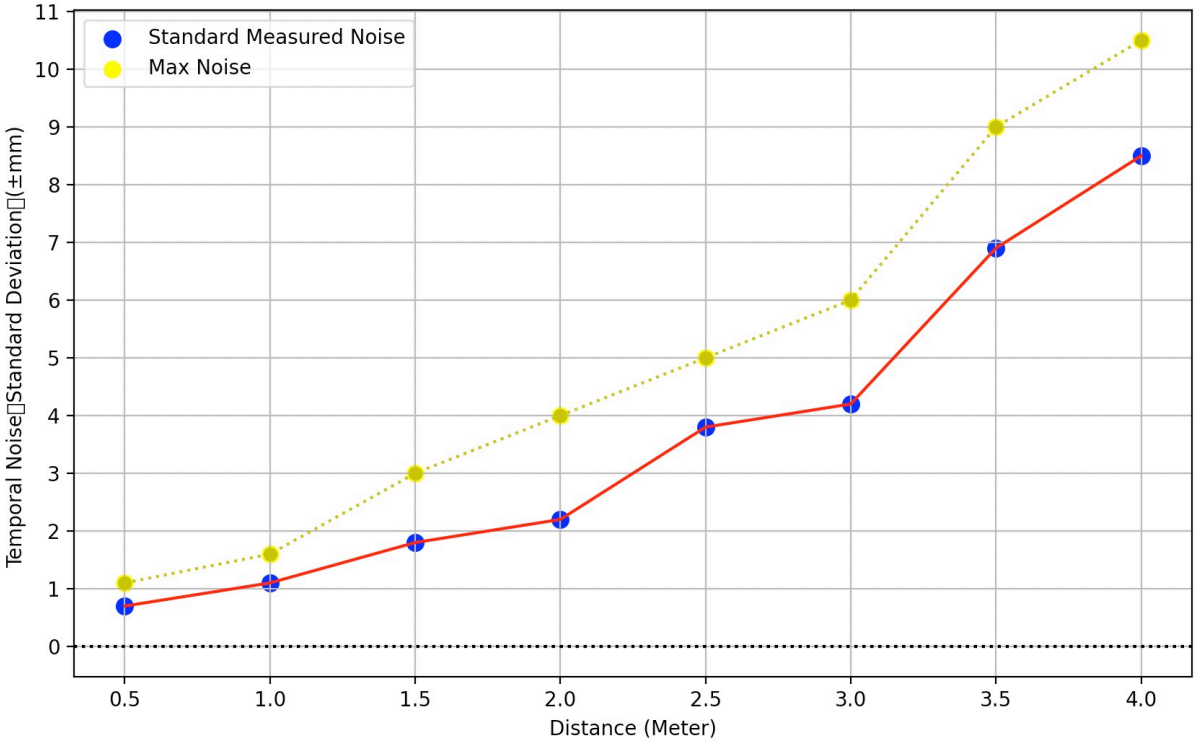
Appendix:

Depth Image / IR Image / PointCloud View

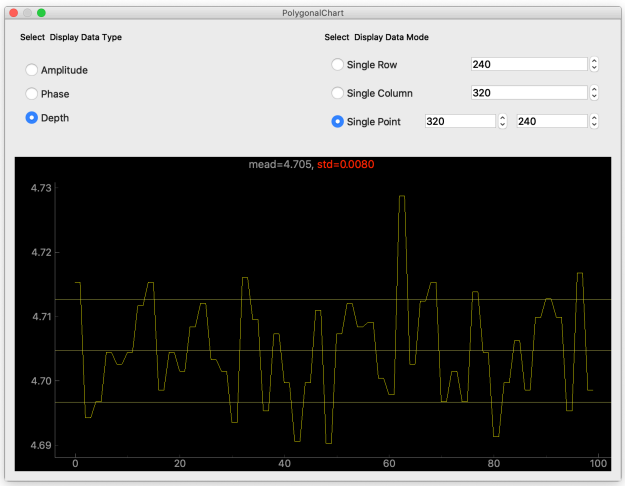




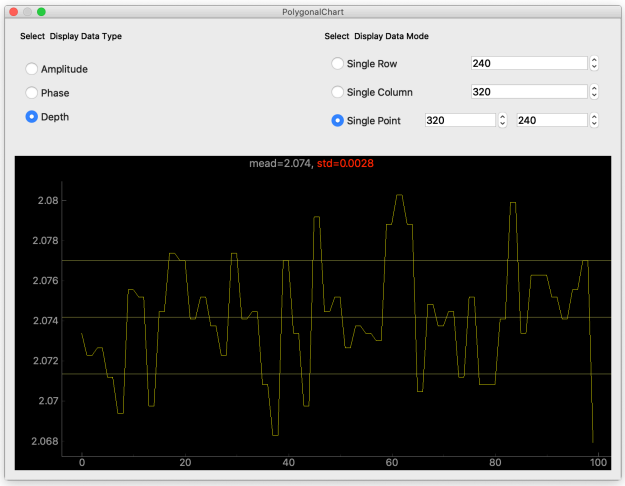
Temporal Noise Chart



Temporal Noise at 4.7 meter



Temporal Noise at 2.0 meter



Note:
The test environment of the above time noise data is indoor, 75% reflectance plate, after 20 minutes of preheating, the integration time is set to 100% (1ms). ,the center point takes 100 consecutive frames of data for statistics.

Technical Support	
SDK & Documents	git@github.com:oak3dvision/oaksense.git
Support email	sdk@pointcloud.ai