

# High-precision TOF Camera



Sony DepthSense®  
Technology

High Accuracy with  
millimeter Precision

Multiple  
Filtering Algorithms

IP67 Protection  
Stable and Reliable

## ■ Description

The product is an 3D camera specially designed for industrial applications . The products are based on Sony Developed with DepthSense® technology, they have millimeter-level measurement accuracy and VGA depth resolution . Embedded unique point cloud filtering and image processing algorithms in product, they can provide IR, point cloud, and depth information in real time.

This product has high integration and high reliability, can be widely used in long-distance non-contact measurement, flow counting in dynamic scenes, logistics technology and robot applications.

## ■ Features



Sony DepthSense®  
Technology



High Accuracy with  
Millimeter Precision



VGA (640\*480)  
Depth Resolution



Multiple  
Filtering Algorithms



Support  
Software/Hardware  
Triggering Method



Support  
HDR mode



Anti-Interference  
Reduced Influence  
from Ambient Light



SDK OS Support:  
AArch64, Linux (x86\_64) 、  
Windows



High Stable and  
Reliable  
IP67



Eye Safety  
Class 1

## ■ Applications



Pallet Recognition  
and Location



Container/Box  
Positioning



AGV  
Obstacle Avoidance



Construction  
Machines Obstacle  
Avoidance



Dynamic Sorting and  
Separating Packages



Volume  
Measurement

## Hangzhou LuminWave Technology Co., Ltd

HEADQUATER | 12/F, Block B, INVENTR Building, No. 459 Jianghong Road, Binjiang District, Hangzhou, Zhejiang, China

USA Office | 692 W Foothill Blvd Monrovia, CA, USA, 91016

✉ sales@luminwave.com

☎ +86 0571 8519 3787

☎ +86 19157800366

🏠 www.luminwave.com

## ■ Specifications

Product Number	LWP-D301	LWP-D302	LWP-D302-W	
Working Principle	TOF			
sensor	Sony DepthSense® TOF IMX570			
Laser	940nm VCSEL*2			
Working Range	0.4m~5m			
Ranging accuracy	<1% (@2m≤5mm)			
FOV (H x V)	70° x 50°		103° x 81°	
Resolution	640 x 480 pixel			
Frame Rate	Max.30fps			
Eye Safety	Class 1			
Function	HDR Function	Support		
	Exposure Time	Support		
	Various Filter Settings	Support		
	Output Data Format	RAW12 (depth map, IR map, point)		
Power supply	Power Supply	12~24V DC		
	Power Consumption	<10W		
	Network Interface	RJ45 1000M Ethernet	Aviation plug:8 pin*M12 X-code	
	Power Interface	6.4mm DC	Aviation plug:8 pin*M12 A-code	
Physical	Dimensions (L x W x H)*	76mm x 63.5mm x 76mm		
	Weight	385g	411g	
	Operating Temperature	-20°C~50°C		
	Storage Temperature	-30°C~70°C		
	Protection Level	IP42	IP67	
SDK	Windows 10 and above / Linux			

\*Dimensions of the main body of the equipment

Note: Product specifications and parameters could be updated, please refer to the latest data, by visiting the official website of Luminwave Technology [www.luminwave.com](http://www.luminwave.com)

## Hangzhou LuminWave Technology Co., Ltd

HEADQUARTER | 12/F, Block B, INVENTR Building, No. 459 Jianghong Road, Binjiang District, Hangzhou, Zhejiang, China

USA Office | 692 W Foothill Blvd Monrovia, CA, USA, 91016

✉ [sales@luminwave.com](mailto:sales@luminwave.com)

☎ +86 0571 8519 3787

☎ +86 19157800366

🏠 [www.luminwave.com](http://www.luminwave.com)