

ToF (Time-of-Flight) Camera DS77

Quick Start Guide

DS77 Pro DS77 Lite

www.vzense.com

Hardware Connection

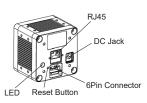
- 1. Connect the camera to your host processor via the ethernet cable
- Supply 12-24V DC power to DS77 Pro via the multi-functional cable, to DS77 Lite via the DC cable
- Set the host processor's IP address in the same segment as the camera's (Default camera's IP address is 192.168.1.101, you can change it via NebulaGUITool)
- 4. Run NebulaGUITool in Windows System, scan and connect the device
- 5. Explore the device via NebulaGUITool and NebulaSDK

Note: DS77 Pro supports PoE+ working mode. PoE+ injectors recommendation: EWPAM2NPoE+ from H3C; TL-PoE+170S from TP LINK

Get to know your DS77



Backside



Blue LED blinking: Power on, waiting for connection Blue LED on: Connected

Download Link

For worldwide users:

ToF Camera Lens

NebulaGUITool: https://github.com/Vzense/NebulaGUITool NebulaSDK: https://github.com/Vzense/NebulaSDK

For users in China:

NebulaGUITool: https://gitee.com/Vzense/NebulaGUITool NebulaSDK: https://gitee.com/Vzense/NebulaSDK

Specification

-		
	DS77 Pro	DS77 Lite
Depth Image Sensor	Sony iToF (Time-of-Flight) Sensor IMX570	
Depth Image Resolution and Frame rate	640 x 480 pixels, max. 25fps	
Output Formats	RAW 12(Depth & IR)	
Depth Sensor Field of View	H-70°, V-50°	
Operation Distance	0.15m ~ 5m	
Accuracy	<1%*	
Power Consumption	Max. 7W	
Illumination	940nm VCSEL x 2	
Dimension(LxWxH)	65mm*65mm*72.65mm	65mm*65mm*60mm
Weight	342g	312g
Power Supply	PoE+ or DC power	DC power
Communication Interface	Gigabit Ethernet and RS485	
Connection	M12 connector x 2	RJ45 x 1, DC Jack x 1, 6pin connector x 1
Working/Storage Temperature	-20°C ~ 50°C/-30°C ~ 70°C	
Supported DEVT Language	C/C++/Python/C#	
Supported OS/Platform	Windows/Linux/Arm Linux/ROS1/ROS2	
Eye Safety	Class 1 Laser	
Enclosure Rating	IP67	IP42

^{*}Accuracy is calculated based on the test data from the lab with a 40% reflectivity grey board as target

Support

Still need help?

Reach out to our technical support team by email: info@vzense.com, we will make sure all inquiries will be responded within 24 hours.

Or leave us a voice message by calling to: +1(650)336-8158.

Want more products information?

Welcome to visit our website to learn more products. We launch new products each 6 months.

Need customized design?

We are specialized in whole system customization design. Free consulting and meeting could be scheduled by email: info@vzense.com

What's inside

DS77 Pro

an ethernet cable (Aviation plug to RJ45)

a multi-functional cable (Aviation plug)

a Quick Start Guide

DS77 Lite

an ethernet cable

√ a 6pin multi-functional cable

a Quick Start Guide

LASER SAFETY A CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure. Complies with 21 CFR 1040.10 and 1040.11 except for conformance with IEC 60825-1 Ed. 3, as described in Laser Notice No. 56, dated May 8, 2019.



FCC

This device complies with Part 15 of the FCC Rules and Innovation, Science and Economic Development. Canada's license-exempt RSS(s). Operation is subject to the following two conditions: (1) his device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. This Class B digital apparatus complies with Canadian ICES-003.

1 YEAR WARRANTY

We want to ensure you have the best product and service, if you are not salistified with our product, please contact us within 7 days since the date of your purchase or receiving and we will refund you after product is shipped back to us. In case you encounter defective product, you could return product to us for repair or exchanging of a new one, when you inform us no later than one month after 1 year warranty period expires.

Please visit our website for more info



www.vzense.com

We will reply your email within 24 hours

info@vzense.com

Please follow us





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Tel: +86-189-5426-5263(China) +1-650-336-8158(USA) Service Email: info@vzense.com







ToF (Time-of-Flight) 深度棚 DS77 快速使用指南

DS77 Pro DS77 Lite

www.vzense.com

操作指南

- 1. 通过以太网线将相机连接至主机
- 2. 通过多功能线给DS77 Pro提供12²4V电源;通过电源线给DS77 Lite提供12²4V电源
- 3. 设置主机IP地址与相机在同一网段(相机的默认IP地址是192.168.1.101 ,用户可以通过NebulaGUITool更改相机的IP地址)
- 4. 在Windows系统下运行NebulaGUITool, 扫描并连接相机
- 5. 按照NebulaGUITool与NebulaSDK使用指导,开始探索DS77相机

备注: DS77 Pro支持PoE+供电模式,推荐的PoE+供电模块: EWPAM2NPoE+ (H3C)/TL-PoE+170S(TP LINK)

了解DS77



DS77 Pro



航空接口 x 2

蓝灯闪烁: 开机后,等待连接 蓝灯常亮: 连接成功

下载链接

ToF相机镜头

用户可通过下述链接下载NebulaGUITool与NebulaSDK

NebulaGUITool: https://gitee.com/Vzense/NebulaGUITool

NebulaSDK: https://gitee.com/Vzense/NebulaSDK

联系我们

方式一: 发送邮件至官方邮箱: info@vzense.com

方式二: 拨打电话: 189-5426-5263

方式三:添加右侧客服微信



性能参数

型号	DS77 Pro	DS77 Lite	
深度图像传感器	Sony iToF sensor IMX570		
激光发射器	940nm VCSEL * 2		
ToF分辨率帧率	640*480像素,最高25fps		
ToF FoV	H-70°, V-50°		
输出格式	RAW12(深度, IR)		
通讯协议	1000M Ethernet & RS485		
物理接口	M12航空接口 x 2	RJ45, DC Jack, 6芯接口各1个	
供电方式	PoE+ or 12V~24V(DC JACK) 12V~24V(DC JACK)		
功耗	最大功率7W		
精度误差	<1%		
检测距离	0.15~5米		
工作温度	−20 ~ 50°C		
操作系统与平台	Windows/Linux/Arm Linux/ROS1/ROS2		
开发语言支持	C/C++/Python/C#		
防护等级	IP67	IP42	

了解更多

官网: www.vzense.com







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Q 维感科技

官方公众号

所含附件

DS77 Pro

☑ 一根以太网线

☑ 一根多功能线

✓ 一份中英文说明书

DS77 Lite

√ 一根以太网线

▼ 一根电源线

√ 一根多功能线

✓ 一份中英文说明书

LASER SAFETY

Use of controls or adjustments or performance of procedures other than those specified herein may

CAUTTON

result in hazardous radiation exposure. Complies with 21 CFR 1040.10 and 1040.11 except for conformance with IEC 60825-1 Ed.3., as described in Laser Notice No. 56, dated May 8, 2019. CLASS 1 LASER PRODUI

售后服务

本产品享受一年的质保服务,自开具发票之日起计算。 在使用过程中,请注意以下几点: 请勿损坏或去除产品上的标签; 请勿拆解产品外壳,否则产品可能会被损坏; 请防止任何物体进入产品,否则产品可能会被损坏; 请避免在强磁环境下应用产品;

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