seeed studio

INDUSTRIAL PRODUCT DATASHEET

Percipio 3D Camera - FM851-GI-E1

The Percipio 3D Camera - FM851-GI-E1 is a high-performance, IP65-rated 3D camera with high-quality RGB, Gigabit Ethernet connectivity, and cross-platform SDK for logistics, automation, destacking/palletizing, inspection, and 3D conten...

SKU	UPDATED	PRICE
114992602	2026-08-19 11:50:42	$2199.00(Excl. VAT)



Overview



The Percipio 3D Camera - FM851-GI-E1 delivers high performance in a compact form factor, meeting IEC 60529 IP65 standards and providing high-quality RGB imaging. It includes an easy-to-use SDK for Win/Linux/Android/ROS platforms and supports Gigabit Ethernet connectivity for seamless integration.

Key Features

- High performance in a small size
- Meets IEC 60529 IP65 standard
- High-quality RGB image
- Easy-to-use SDK available for all Win/Linux/Android/ROS platforms
- Gigabit Ethernet connectivity

Product Gallery



Specification

Specification	Details
Size (mm)	L x H x W: 141 x 31. 9 x 96
Weight (g)	650g
Baseline	79mm
Range	0.7 m - 6.0 m
FOV(H/V)	56°/ 46°
Accuracy	0.2% - 2%
	z: 2mm@ 1 m
	x, y: 4mm@1m
Output Data	Point Cloud, Depth Map, IR & RGB
Software	OS: Linux/Windows/Android/ROS
	Software Development Platform: PercipioSDK / OpenNI 2 / Halcon
	API: C / C++
Performance	Depth: 1280 x 960 @ 26 fps 640 x 480 @ 26fps
	RGB: 1280 x 960 @ 26fps 640 x 480 @ 26 fps RGB-D synchronization RGB-D alignment
Power Supply	48V POE/ 24V POWER
Power Consumption	Idle Mode :2.9W Working Mode :5.2 W Trigger Mode : 4.0 W
Interface	GPIO: Trigger and Power Line
	Ethernet: X-code M12
Temperature	Storage: -10˚C-55˚C
	Operation: 0˚C-45˚C
Laser Safety	Class I

Applications

- **Logistics**
- **Automation**
- **Destacking / Palletizing**
- **Inspection**
- **3D Content Generation**

Part List

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Compliance & Logistics



HSCODE	8525801390
USHSCODE	9031499000
UPC	
EUHSCODE	9013101000
COO	CHINA

Resource Links

- https://www.seeedstudio.com/Percipio-3D-Camera-FM851-GI-E1-p-4819.html
- SDK on GitHub
- Datasheet

Seeed Technology Co.,Ltd.
9F, Building G3, International E City,
Zhongshanyuan Road, Nanshan, Shenzhen, China

Tel: +86 0755-80695676
Web: www.seeed.cc
Shop: www.seeedstudio.com