



PRODUCTS

Designed for your total satisfaction

[> Products](#) [> OPTICAL NAVIGATION](#) [> Optical Tracking Sensor](#) [> PAA5160E1-Q](#)

Products Menu [v](#)

PAA5160E1-Q

Reports accurate dual-axis motion data across different hard floorings

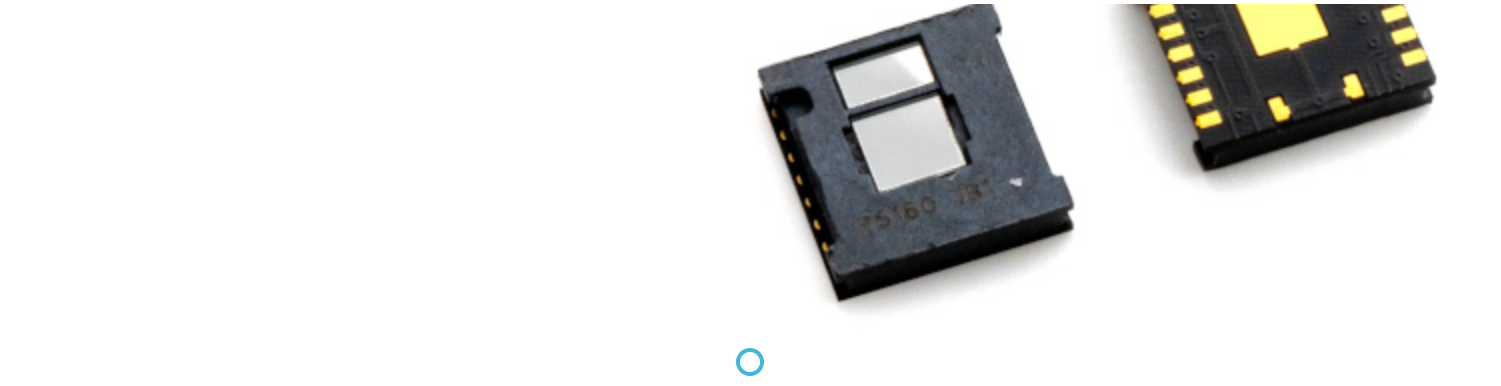
Robust tracking performance with instant tracking recovery after crossing over non-trackable surfaces

With a typical tracking error rate of 3~5% within a working range of 10mm to 27mm

High speed motion tracking of up to 2.5m/s

Ideal for navigation tracking of high-speed movable devices, including warehouse robots and commercial robots

Compact LGA package with integrated light source



Key Features

Supply Voltage (V)	VDD: 1.8~2.1; VDD_VCSEL: 2.8~3.3
Interface Voltage (V)	VDDIO: 1.8~3.3
Power Consumption (mA)	Typ. 16.5
Shutdown Current (µA)	Typ. 4
Repeated Accuracy Error at Nominal Height	5%
Communication	4-Wire SPI @4MHz
Resolution	20000 CPI
Tracking Speed	2.5m/s
Package Type	16-pin LGA
Package Size (mm)	6.0*6.0*1.35
Working Distance to Tracking Surface	10~27mm
System Package to Surface	0 degree
Light Source Wavelength (nm)	850
PA No. of Pairing Lens	No lens required
Paper Float Function	N/A



rough tiles, laminated wood flooring

Areas of Applications



Autonomous Navigation

Robot Route Mapping and Positioning



Industrial

Warehouse Robot

Support Center

[Product and Technical Inquiry](#)

[Request of Quote](#)

[Terms of Use](#)

[Privacy Policy](#)

[Site Map](#)

SEE. FEEL. TOUCH.
Copyright©PixArt Imaging Inc. All rights reserved.

For the best experience, you are recommended to upgrade your browser to the followings if you are using IE10 (incl.) or older versions: IE11, Edge, Chrome (v60), Firefox (v48), Safari(v11).