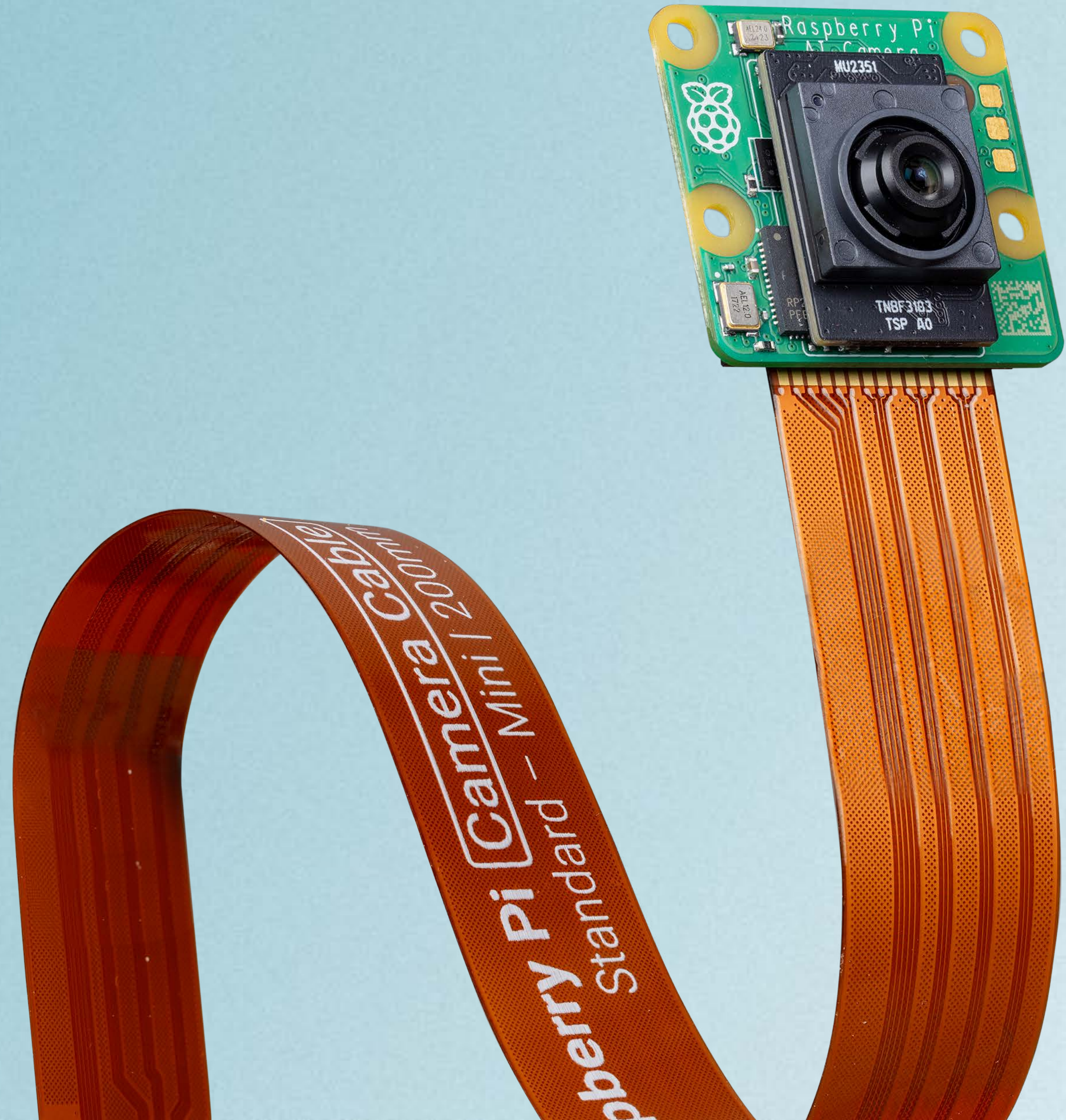




Raspberry Pi

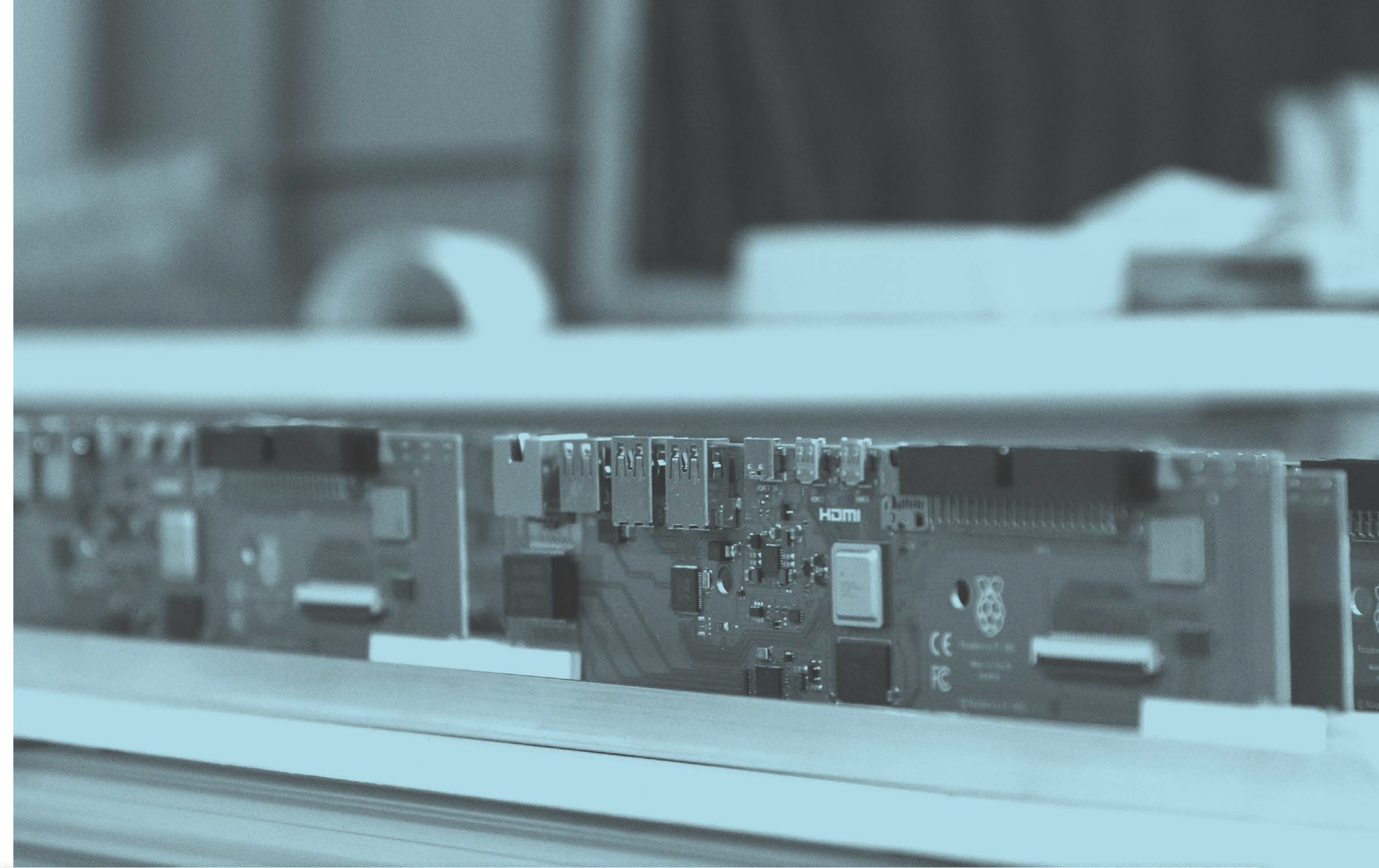
Camera Modules

2025



Raspberry Pi at a glance

Launched in
2012



70%

... of products sold go to industrial and business customers

UK
Headquarters

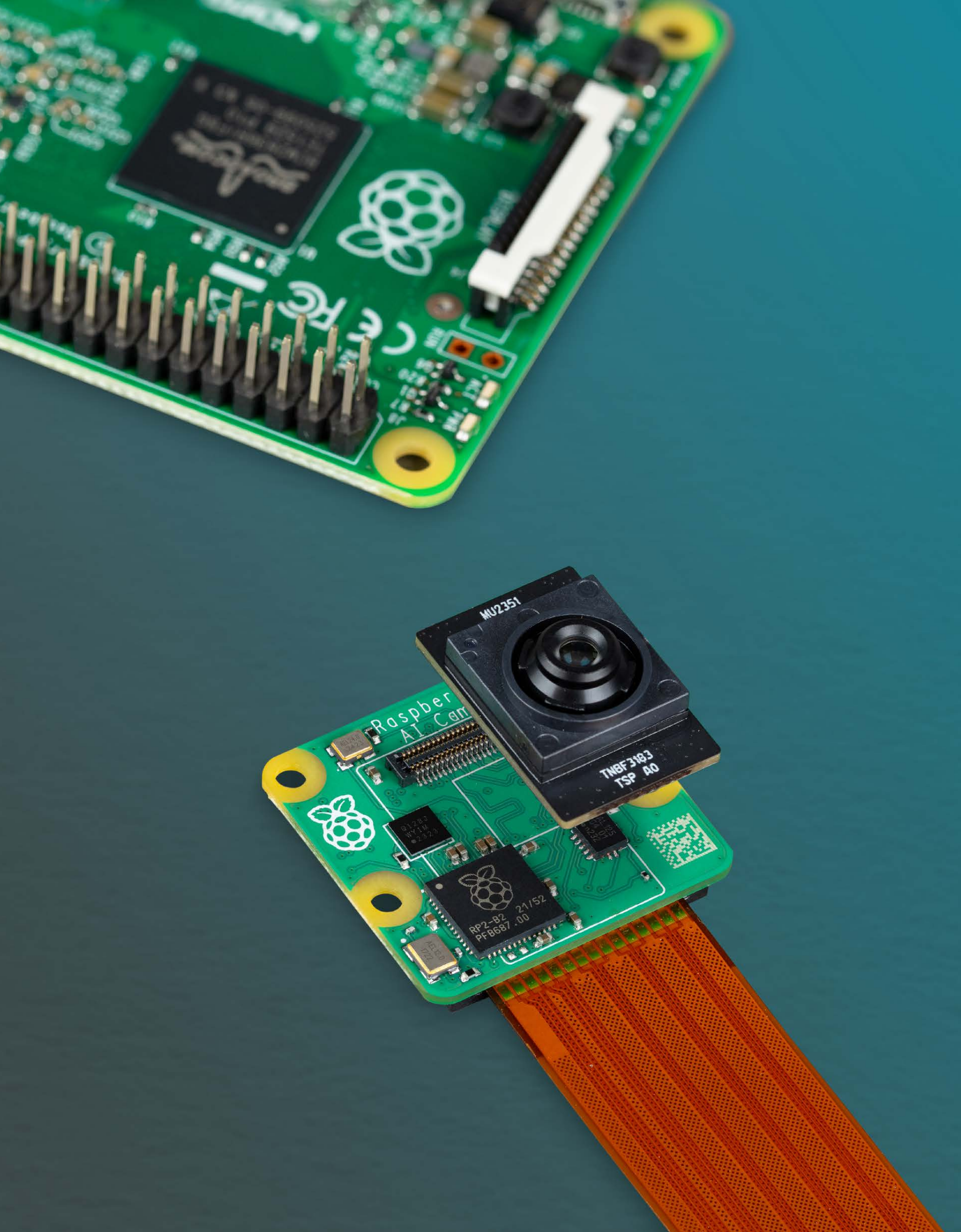
Designed and manufactured in the United Kingdom

64+

... million computers sold to date

\$266M
FY23 revenue

Large global customer base



Raspberry Pi AI Camera

Compatible with all Raspberry Pi computers, Raspberry Pi AI Camera takes advantage of Sony's IMX500 Intelligent Vision Sensor to help you create impressive vision AI applications and neural network models using the on-module AI processor and Raspberry Pi's rich camera software libraries.

The IMX500's tight integration with Raspberry Pi's camera software stack allows users to deploy their own neural network models with minimal effort.

To help customers get started, we developed a guide to getting either a pre-packaged or custom-made neural network model running on the camera. This can be found on our documentation page.

Once AI models and applications for the IMX500 and Raspberry Pi have been created, users can scale up to an enterprise deployment with Sony's AITRIOS.

Raspberry Pi Camera Module 3

The classic compact camera for Raspberry Pi. Raspberry Pi Camera Module 3 is a 12-megapixel camera with super-fast autofocus and HDR mode. Available with your choice of standard and wide lenses, with or without an infrared filter.

Variants

Standard

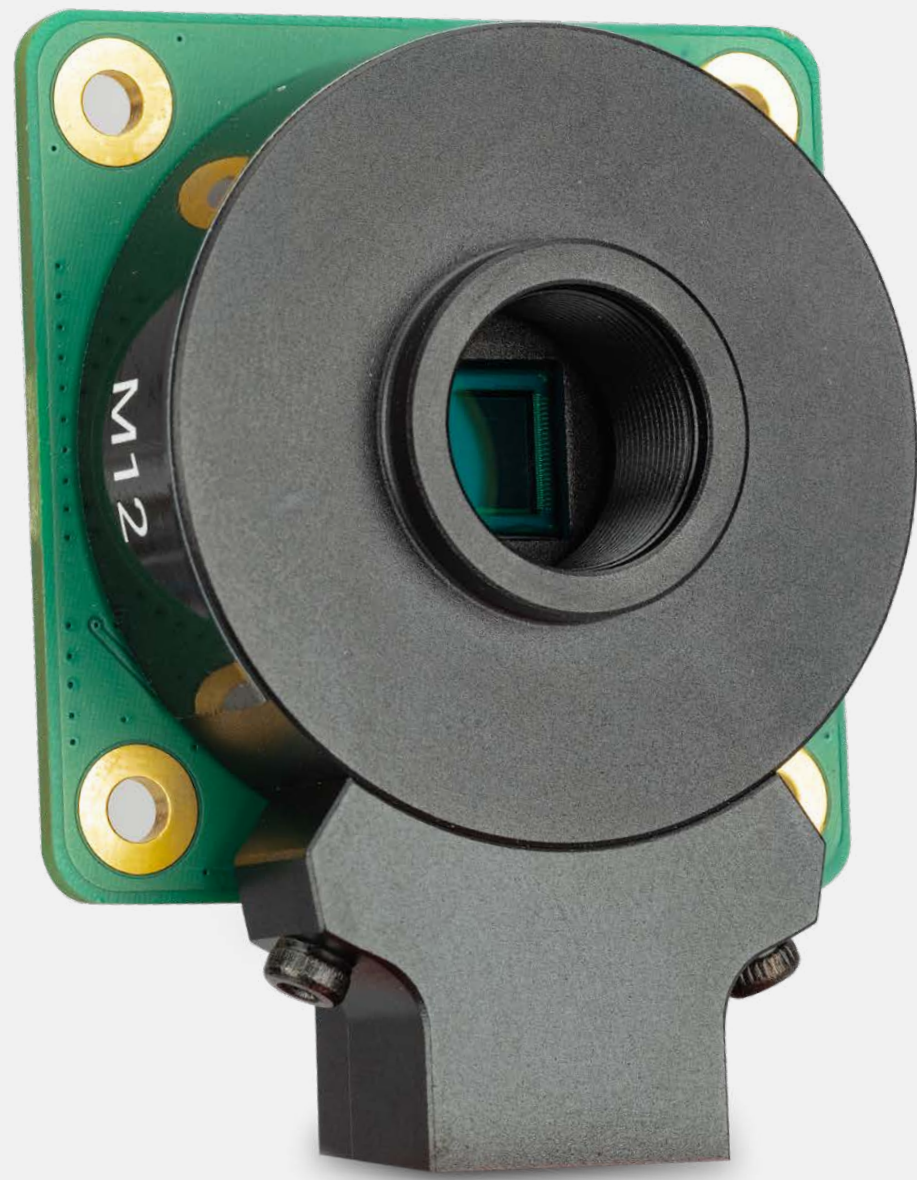
NoIR

Wide

NoIR Wide



Raspberry Pi High Quality Camera



12.3-megapixel camera with a Sony IMX477 sensor, 7.9 mm diagonal image size, back-illuminated sensor architecture, and adjustable back focus. Available with your choice of C/CS mount or M12 mount.

Raspberry Pi Global Shutter Camera



A specialised 1.6-megapixel camera that can capture rapid motion without introducing artefacts typical of rolling shutter cameras. Ideal for fast motion photography and machine vision applications.

	   			
	Raspberry Pi AI Camera	Raspberry Pi Camera Module 3 Standard, NoIR, Wide, Wide NoIR	Raspberry Pi High Quality Camera	Raspberry Pi Global Shutter Camera
Resolution	12.3 megapixels	11.9 megapixels	12.3 megapixels	1.58 megapixels (colour)
Sensor size	7.9 mm sensor diagonal	7.4 mm sensor diagonal	7.9 mm sensor diagonal	6.3 mm sensor diagonal
Pixel size	1.55 µm × 1.55 µm	1.4 µm × 1.4 µm	1.55 µm × 1.55 µm	3.45 µm × 3.45 µm
Sensor resolution	4056 × 3040 pixels	4608 × 2592 pixels	4056 × 3040 pixels	1456 × 1088 pixels
Focus type	Manual adjustable focus	Autofocus	Manual adjustable focus	Manual adjustable focus
Focal range	20 cm–∞	10 cm–∞ (Standard and NoIR) 5 cm–∞ (Wide and Wide NoIR)	N/A	N/A
Focal length	4.74 mm	4.74 mm (Standard and NoIR) 2.75 mm (Wide and Wide NoIR)	Depends on lens	Depends on lens
Focal ratio (F-stop)	F1.79	F1.8 (Standard and NoIR) F2.2 (Wide and Wide NoIR)	Depends on lens	Depends on lens
Infrared sensitive	No	No (Standard and Wide) Yes (NoIR and Wide NoIR)	No	No
Dimensions	25 × 24 × 11.9 mm	25 × 24 × 11.5 mm (12.4 mm height for Wide variants)	9 x 4 x 3.5 cm	38 × 38 × 19.8 mm (29.5 mm with adapter and dust cap)
Price	\$70	\$25; Wide variants \$35	\$50	\$50
Production lifetime	January 2028	January 2030	January 2030	January 2032
More information	Product brief	Product brief	Product brief	Product brief

Why Raspberry Pi?

- 10+ year guaranteed production lifetime
- Secure and reliable platform
- Reduces engineering costs and time to market
- Ease of use with vast, mature ecosystem
- Cost-effective and affordable
- Designed and manufactured in the UK
- Low power consumption
- Extensive high-quality documentation

