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79°)

Learn

IMX378-79 12.3MP Camera

(4056x3040 Resolution, FOV

Module for Raspberry Pi

\$USD

Store / Sensors / Light & Imaging Sensors / IMX378-79 12.3MP Camera Module for Raspberry Pi (4056x3040 Resolution, FOV 79°)

Community

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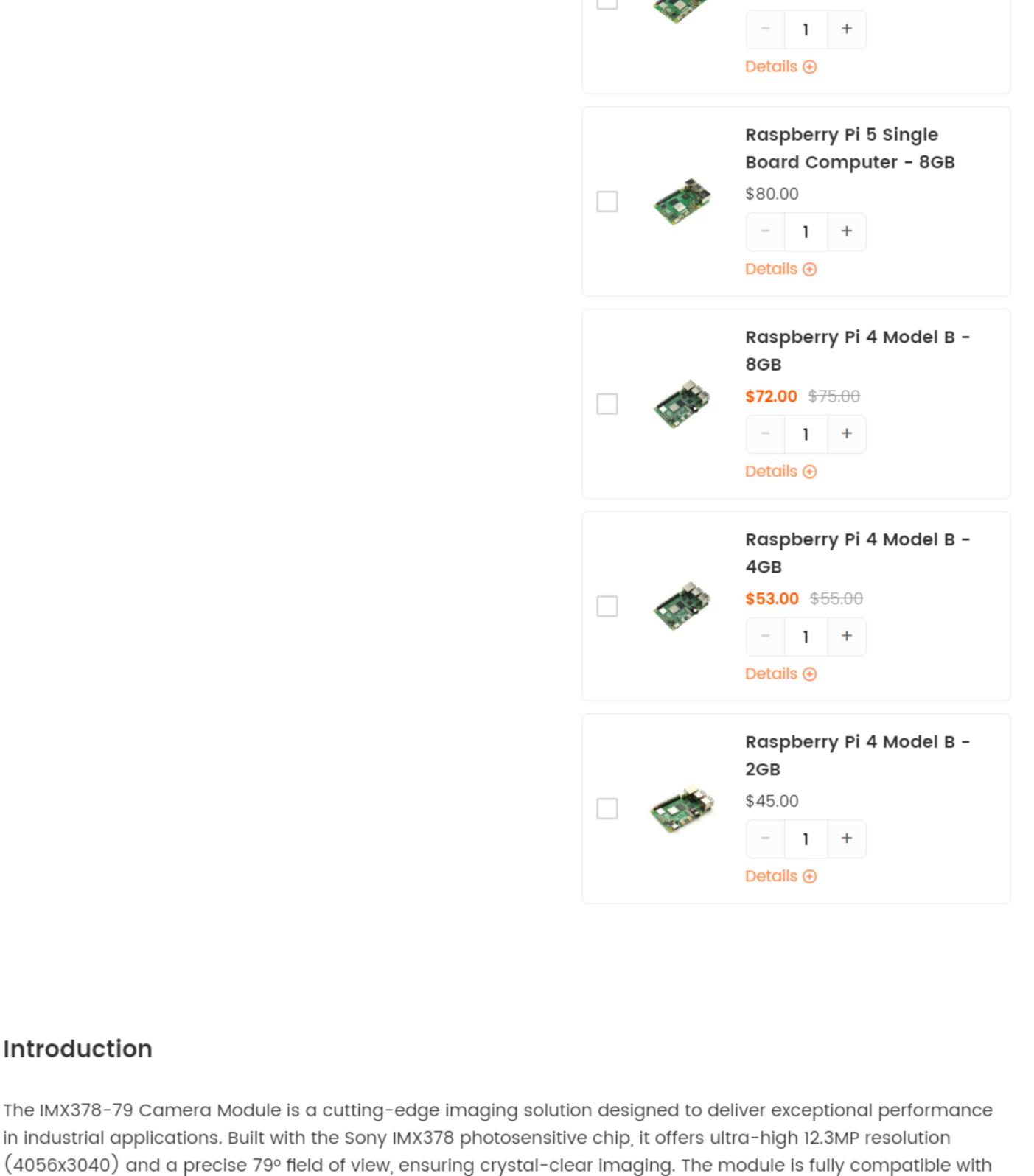
\$29.90 SKU: SEN0632 Volume Discount ③ Purchase this product and earn 299 reward points, which are tied to VIP membership program. Learn More > 4Lane 8MP FOV 79° \$19.90 4Lane 8MP FOV 120° \$21.90 12.3MP FOV 79° \$29.90 12.3MP FOV 120° Wide-Angle \$39.90 \$29.90 Add to Cart **Shop Now** Don't Miss Top Accessories Raspberry Pi 5 Single

Board Computer - 4GB

\$60.00



IMX378-79 12.3MP Camera Module for Rasp...



the setup process for projects of all sizes.

Seamless Raspberry Pi Integration

Introduction

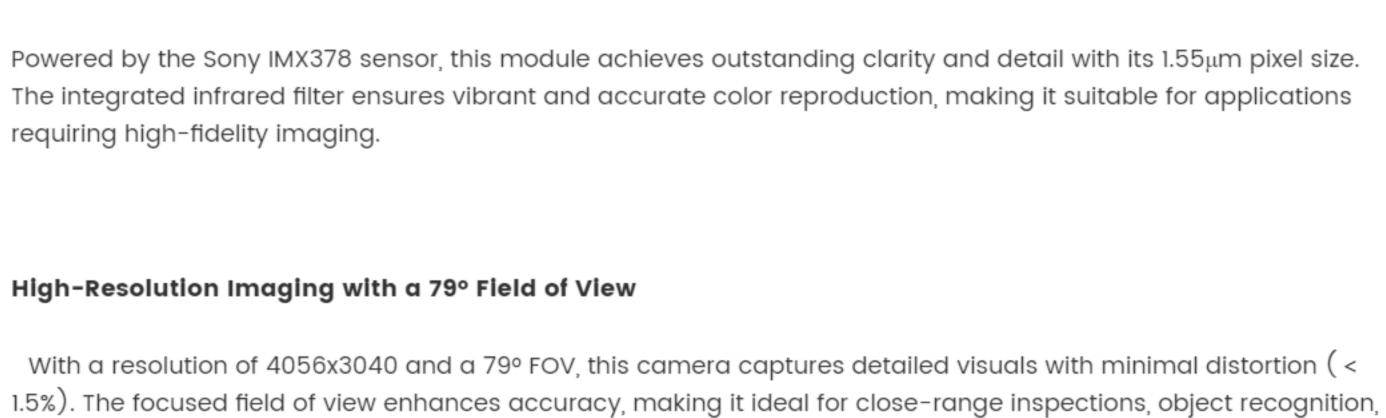
Figure: Wiring Diagram of IMX378-79 12.3MP Raspberry Pi Camera and Raspberry Pi 5 / Raspberry Pi Zero

Raspberry Pi single board computers (Raspberry Pi 5 / Raspberry Pi 4 / Raspberry Pi Zero) and comes with two

The camera's MIPI-CSI-2Lane interface ensures efficient data transmission, while its plug-and-play compatibility

with Raspberry Pi series boards simplifies deployment. Included FPC cables further enhance usability, streamlining

FPC cables for seamless connectivity, eliminating the need for additional accessories.



and industrial automation.

7.8±0.2

2.5

מתתתתתתתתתתת

OV9281-79 1MP Global

Shutter Camera

< 1%

Raspberry Pi 4B &

Raspberry Pi 5

Figure: Dimension Diagram of IMX378-79 12.3MP Raspberry Pi Camera

How to Choose IMX378 12.3MP Camera Module

Name

Distortion

Compatible

Applications

Close-range inspections

larger spaces, reducing blind spots in monitoring systems.

IMX219-77-4Lane 8MP Camera

<1%

Raspberry Pi 5

Sony IMX378 Sensor for Superior Image Quality

SKU SEN0630 SEN0631 SEN0632 SEN0633 SEN0634 Photosensitive Chip IMX219 IMX219 **IMX378** IMX378 OV9281 1230W 100W Pixels 800W 800W 1230W Resolution 3280x2464 3280x2464 4056x3040 4056x3040 1280x800 Channels CSI-4 CSI-4 CSI-2 CSI-2 CSI-2 Interface CSI 22Pin CSI 22Pin CSI 15Pin CSI 15Pin CSI 15Pin 120° 79° FOV 79.3° 79.3° 190°Fisheye lens Rolling Shutter Rolling Shutter **Rolling Shutter** Rolling Shutter Shutter Mode Global Shutter Imaging Type Black and White Color Color Color Color

Figure: Raspberry Pi CSI Camera Selection Table

The IMX378 camera module is available in two versions: 79° field of view (FOV) and 190° FOV (this one). The 79°

FOV version offers a narrower, more focused field of view, making it ideal for applications requiring precision and

detail, such as industrial automation, object recognition, and close-range inspections. The 190° FOV wide-angle

autonomous robots, and large-scale visual inspections. Its wider field of view allows for fewer cameras to cover

Raspberry Pi CSI Camera Selection Table

IMX378-79 12.3MP

Camera

< 1.5%

Raspberry Pi 4B &

Raspberry Pi 5

IMX378-190 12.3MP

Camera

< 58%

Raspberry Pi 4B &

Raspberry Pi 5

version, designed for broader area capture, is perfect for security surveillance, smart home monitoring,

IMX219-120-4Lane

8MP Camera

< 1%

Raspberry Pi 5

Object recognition
Industrial automation
Specification
Photosensitive chip: Sony IMX378
Pixels: 12.3 million
Chip pixel size: 1.55umx1.55um
• Resolution: 4056x3040
Camera type: color
Shutter mode: rolling shutter
Focus mode: fixed focus

- Distortion: < 1.5% · Interface: MIPI-CSI-2Lane
- PCB size: 38*38mm

CMOS size: 1/2.3 inches

· Infrared filter: integrated

Focal length: 4.74mm

Aperture: 1.79

Field of view: 79°

Lens size: M8.5

 Tutorial IMX378 DataSheet

Interface Schematic

Module Specifications

Documents

Shipping List

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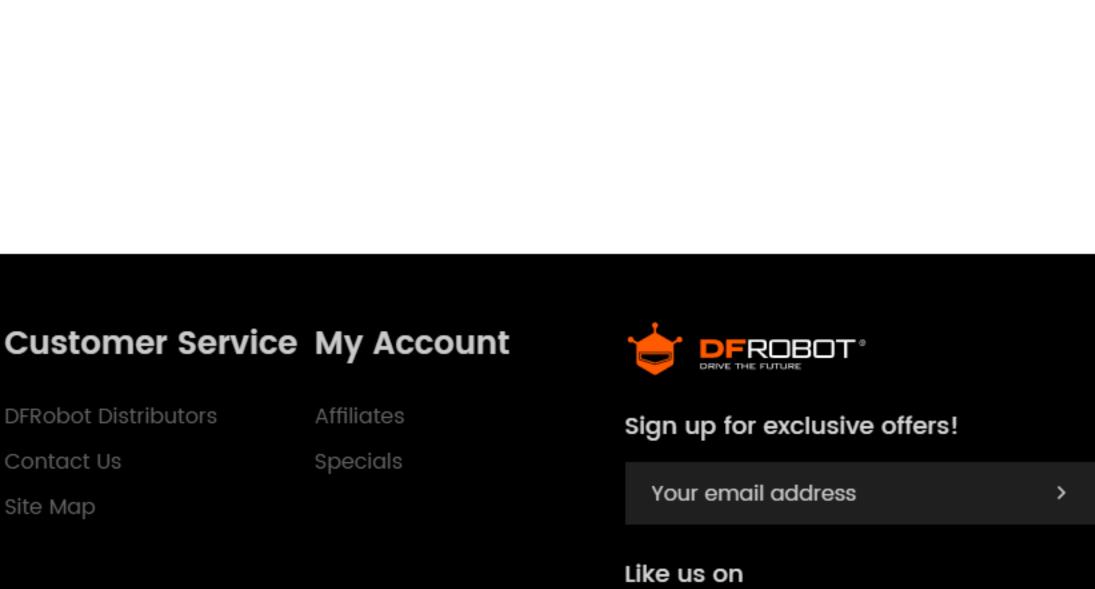
FAQ

Raspberry Pi Projects

• IMX378-79 12.3MP Raspberry Pi Camera x1

15Pin to 15Pin FPC cable x1

15Pin to 22Pin FPC cable x1



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