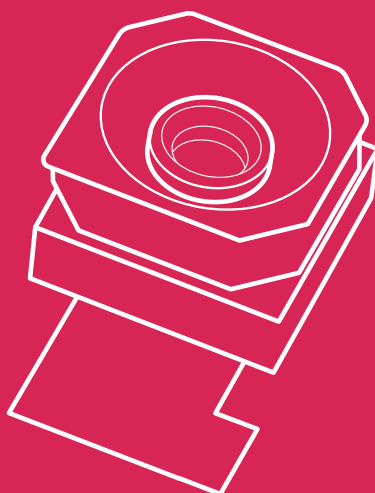




Raspberry Pi Camera Module 3 Sensor Assembly

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Overview



The Raspberry Pi Camera Module 3 Sensor Assembly contains the same sensor and autofocus functionalities as Raspberry Pi Camera Module 3 AF (autofocus), enabling you to integrate the features of Camera Module 3 into a more diverse range of form factors. This assembly provides a low-cost way to add imaging capability to smaller devices, reducing manufacturing complexity and time to market.

As with Camera Module 3, the sensor assembly's operation is fully supported by the `libcamera` library and the `libcamera`-based `Picamera2` and `rpicam-apps` libraries, including its rapid autofocus feature; this provides a robust software environment to support the development of advanced features while making essential functionality simple to provide.

Specification

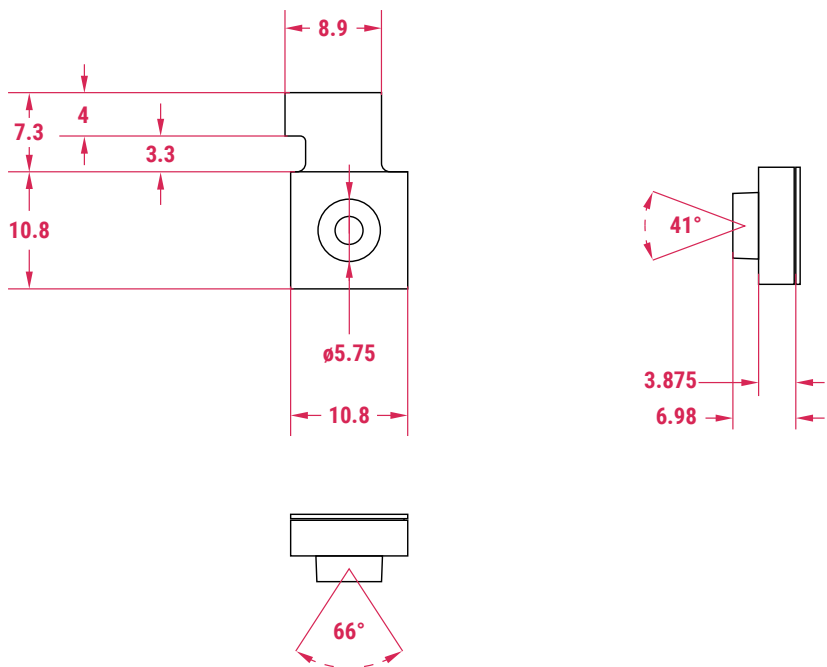
Sensor:	Sony IMX708 featuring: <ul style="list-style-type: none">• Dynamic Defect Pixel Correction (DPC)• QBC re-mosaic function• High dynamic range (HDR) support
Resolution:	11.9 megapixels
Sensor size:	7.4 mm sensor diagonal
Pixel size:	1.4 μm \times 1.4 μm
Horizontal/vertical:	4608 \times 2592 pixels
IR cut filter:	Integrated in standard variants; not present in NoIR variants
Autofocus system:	Phase Detection Autofocus
Operating temperature:	0°C to 50°C
Compliance:	For a full list of local and regional product approvals, please visit pip.raspberrypi.com
Production lifetime:	The Raspberry Pi Camera Module 3 Sensor Assembly will remain in production until at least January 2030
List price:	See table below

Part Number	Price*
Standard	\$15
Stanard NoIR	\$15
Wide	\$25
Wide NoIR	\$25

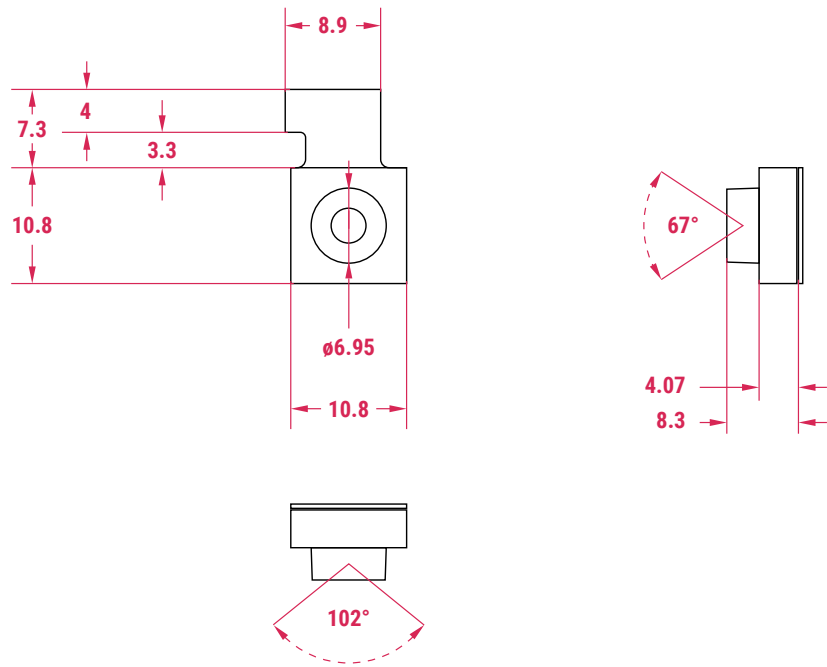
* pricing excludes sales tax and any applicable import duties

Physical specification

Standard lens



Wide lens



Note: all dimensions in mm

Variants

	Standard	Standard NoIR	Wide	Wide NoIR
Focus range	10 cm–∞	10 cm–∞	5 cm–∞	5 cm–∞
Focal length	4.74 mm	4.74 mm	2.75 mm	2.75 mm
Diagonal field of view	75 degrees	75 degrees	120 degrees	120 degrees
Horizontal field of view	66 degrees	66 degrees	102 degrees	102 degrees
Vertical field of view	41 degrees	41 degrees	67 degrees	67 degrees
Focal ratio (F-stop)	F1.8	F1.8	F2.2	F2.2
Infrared-sensitive	No	Yes	No	Yes

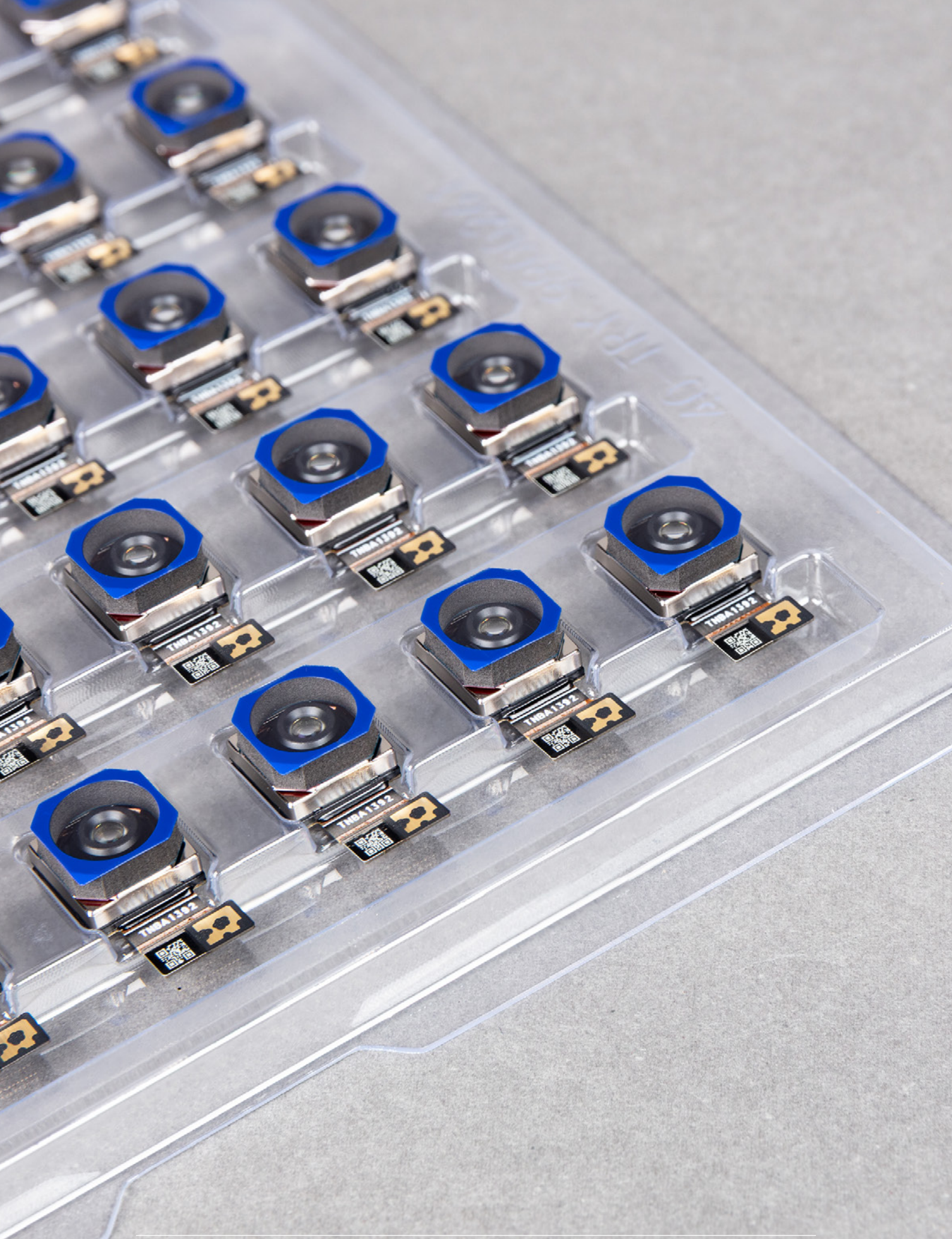
WARNINGS

- This product should be operated in a well-ventilated environment; if used inside a case, the case should not be covered
- Whilst in use, this product should be firmly secured or placed on a stable, flat, non-conductive surface, and should not come into contact with conductive items
- All peripherals used with this product should comply with relevant standards for the country of use and be marked accordingly to ensure that safety and performance requirements are met

SAFETY INSTRUCTIONS

To avoid malfunction or damage to this product, please observe the following:

- This device should be operated in a dry environment at 0–50°C
- Do not expose to water or moisture, or place on a conductive surface whilst in operation
- Do not expose to heat from any source; Raspberry Pi Camera Module 3 Sensor Assembly is designed for reliable operation at normal ambient temperatures
- Store in a cool, dry location
- Avoid rapid changes of temperature, which can cause moisture to build up in the device, affecting image quality
- Take care whilst handling to avoid mechanical or electrical damage to the printed circuit board and connectors





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