Raspberry Pi Camera Module 3 Sensor Assembly

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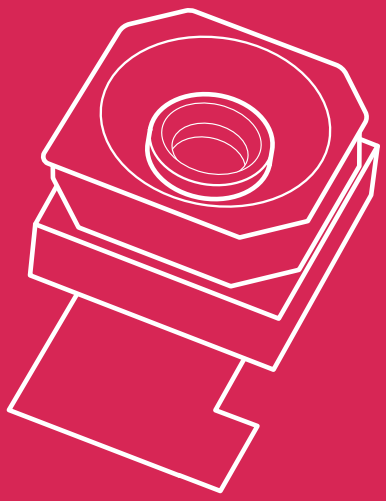

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Overview

Raspberry Pi Camera Module 3 Sensor Assemblies offer the same IMX708 12-megapixel sensor with high-dynamic-range (HDR) support, and the same Phase Detection Autofocus (PDAF) capabilities as Camera Module 3, in a compact footprint suitable for integration into smaller-form-factor OEM products. Standard and wide-angle variants are available, with or without an infrared cut filter.

Camera Module 3 Sensor Assemblies can be used to take full HD video as well as stills photographs, and provide a natural path to scale for customers who have prototyped with Camera Module 3. Their operation is fully supported by the libcamera library.

Reference schematics and a bill of materials are provided to assist customers in integrating the required support components into their products.

Specification

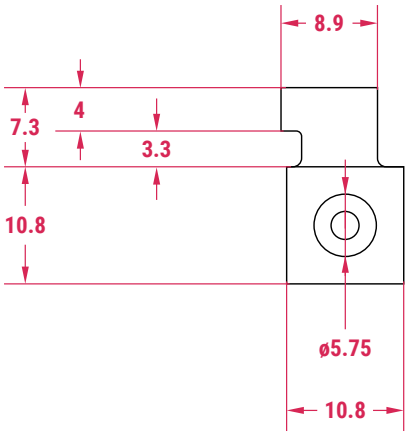
Sensor:	Sony IMX708 featuring: • Dynamic Defect Pixel Correction (DPC) • QBC re-mosaic function • High dynamic range (HDR) support
Resolution:	11.9 megapixels
Sensor size:	7.4 mm sensor diagonal
Common video modes:	1080p50, 720p100, 480p120
Output:	RAW10
Pixel size:	1.4 µm × 1.4 µm
Horizontal/vertical:	4608 × 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 variants table below**

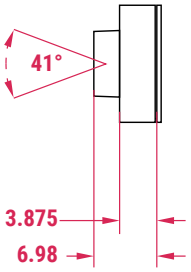
For a bill of materials visit rpltd.co/sa-bom

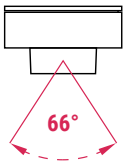
For the reference schematic visit rpltd.co/sa-reference-schematic

Physical specification

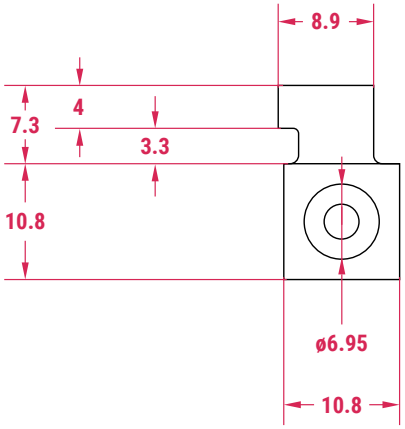
Standard lens

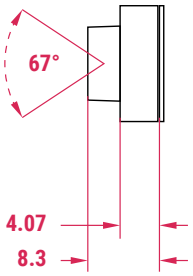


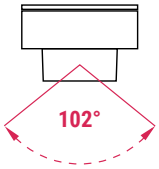




Wide lens







Note: all dimensions in mm

Variants

	Standard	Standard NoIR	Wide	Wide NoIR
Part number	SA31VA30P	SA31NA30P	SA36VA30P	SA36NA30P
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
List price	**$15**	**$15**	**$25**	**$25**

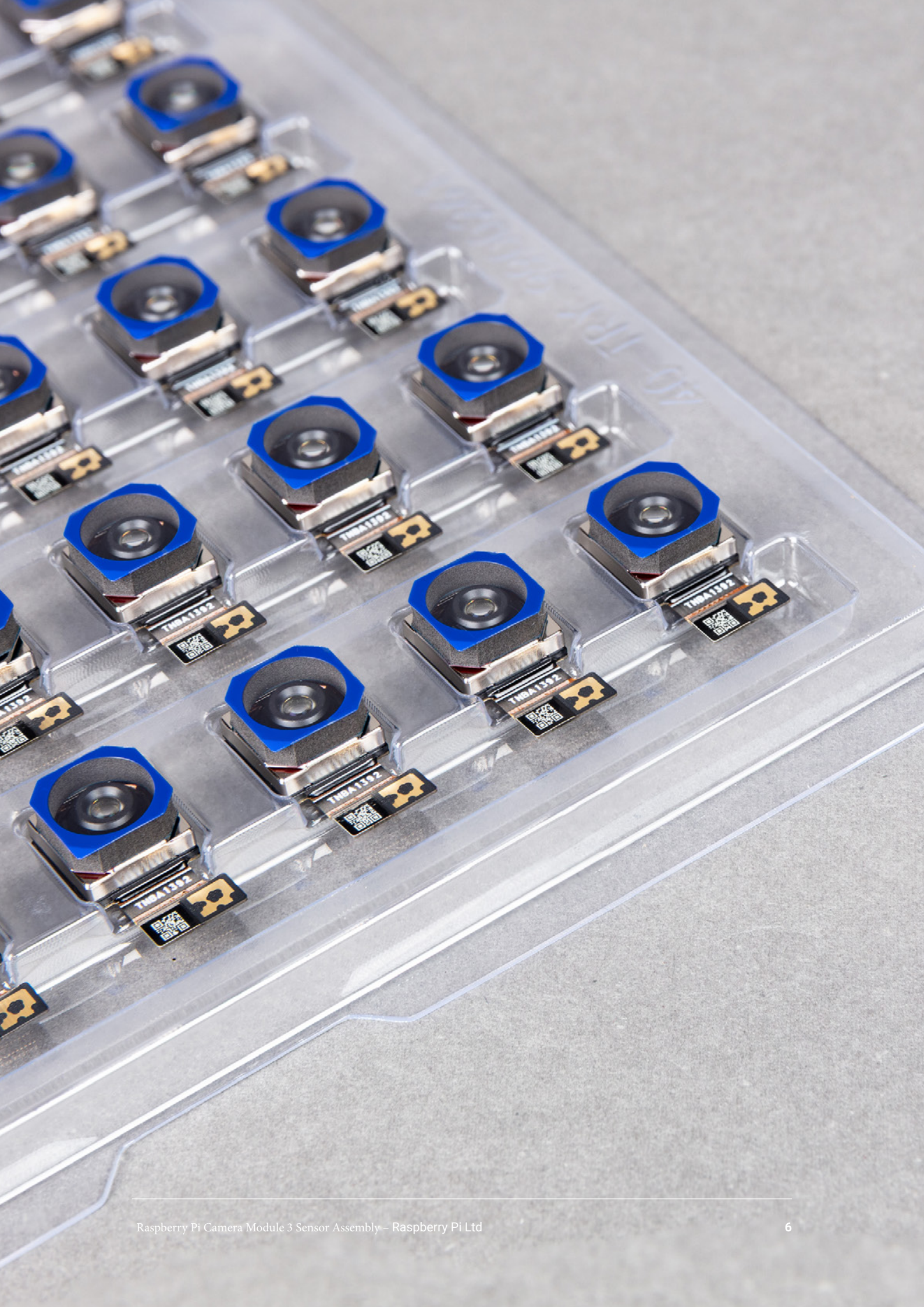
WARNINGS

- 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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