



Khadass Camera Comparison

Product	OS08A10	IMX415	IMX585	IMX678
				
Positioning	Mid-range wide-angle camera with IR filter	Mid-range wide-angle camera	Best overall image performance in the Khadas lineup	Widest-angle camera in the Khadas lineup
Dimensions	26.0 × 35.0 (or 100.0 with FPC) × 20.59 mm	26.4 × 24.0 (or 100.0 with FPC) × 22.17 mm	Camera: 46 × 37 × 53.74 mm FPC Cable: 14.5 × 75 × 0.3 mm	Camera: 27 × 24 × 30 mm FPC Cable: 14.5 × 75 × 0.3 mm
Image Sensor	OmniVision OS08A10	SONY IMX415-AAQR-C	SONY IMX585-AAQJ1-C	SONY IMX678-AAQR1-C
Sensor Type	CMOS	CMOS	CMOS	CMOS
Sensor Size	1/2.0"	1/2.8"	1/1.2"	1/1.8"
Pixels	3840 × 2160 (8.29 MP)	3840 × 2160 (8.29 MP)	3840 × 2160 (8.29 MP)	3840 × 2160 (8.29 MP)
Frame Rate	4K (60fps)	4K (30fps)	H.265 4K (60fps)	H.265 4K (60fps)
Effective Focal Length	3.47 mm	2.02 mm	6.93 mm	2.94 mm
Aperture	F2.1	F2.4	F1.0 ±10%	F1.6 ±5%
Field of View	View Angle: 160°	D: 118.8° H: 109.9° V: 74.6°	D: 125° H: 102° V: 53°	D: 178.6° H: 151.2° V: 83.1°
Distortion	< -23%	< -3.6%	< -15.9%	< -30.25%
Voltage (DVDD)	1.2 V	1.1 V	1.1 V	1.1 V
Voltage (DOVDD)	1.8 V	1.8 V	1.8 V	1.8 V
Voltage (AVDD)	2.8 V	3.3 V	3.3 V	3.3 V
Connection	Connector: 30-pin 0.5 mm FPC Interface: MIPI-CSI, 4-lane	Connector: 30-pin 0.5 mm FPC Interface: MIPI-CSI, 4-lane	Connector: 30-pin 0.5 mm FPC Interface: MIPI-CSI, 4-lane	Connector: 30-pin 0.5 mm FPC Interface: MIPI-CSI, 4-lane
Exposure Compensation	Supported	/	Supported	Supported
Color Correction	Supported	/	Supported	Supported
Compatibility	Edge2 VIM4 VIM3	Edge2 VIM4 VIM3	Edge2 (Linux): Supported Edge2 (Android): Supported VIM4 (Linux): Developing VIM4 (Android): Developing	Edge2 (Linux): Supported Edge2 (Android): Supported VIM4 (Linux): Developing VIM4 (Android): Developing
Recommended Applications	Security Surveillance Liveness Detection	Face Recognition QR Scanning Liveness Detection	Security Surveillance Industrial Cameras License Plate Recognition Object Detection	Security Surveillance Body-worn Cameras Action Cameras Drones Smart Home Devices