IMX585 Camera

Model	A1034
Overview	A high-performance camera module with sharp image quality, excellent low-light performance, and a replaceable FPC cable.

Highlights

- 4K Ultra HD: Supports 4K (60fps) video recording for rich details and smooth playback.
- 8MP Large Sensor: Features a 1/1.2" sensor for clearer, more lifelike images.
- F1.0 Aperture for Better Night Shots: Brighter, low-noise images even in dim lighting.
- Wide-Angle, Low-Distortion: Captures a broad field of view with undistorted visuals.
- Replaceable FPC Cable: Easily swap out worn cables for hassle-free maintenance.

Tech Specs

Sensor

Image Sensor:	SONY IMX585-AAQJ1-C
Sensor Type:	CMOS
Sensor Size:	1/1.2"
Pixels:	8.29 million (3840 × 2160)
Maximum Frame Rate:	H.265 4K (60fps)

Lens

Effective Focal Length:	6.93 mm
Aperture:	F1.0±10%
Field of View:	D: 125° H: 102° V: 53°
Distortion:	< -15.9%

Connection

Connector:	30-pin 0.5 mm FPC connector
Interface:	MIPI-CSI, 4-lane

Size

Camera:	46 mm × 37 mm × 53.74 mm
FPC Cable:	14.5 mm × 75 mm × 0.3 mm

Features

Exposure Compensation:	Supported
Color Correction:	Supported

Documentation

Datasheet:	https://dl.khadas.com/products/add-ons/cameras/imx585/datasheet/
2D Mechanical Drawing:	https://dl.khadas.com/products/add-ons/cameras/imx585/blueprints/
Photos:	https://dl.khadas.com/products/add-ons/cameras/imx585/photos/

Warranty [1]   1 Year Limited Hardware Warranty

Compatibility

Edge2	Linux: Supported Single connection: CAM1 – 4K (30fps), CAM2 & CAM3 – 4K (60fps) Triple connection: CAM1 – 4K (30fps), CAM2 – 4K (60fps), CAM3 – 4K (60fps) Android: Supported Single connection: CAM1 – 4K (30fps), CAM2 & CAM3 – 4K (60fps) Triple connection: CAM1 – 4K (30fps), CAM2 – 4K (60fps), CAM3 – 4K (60fps)
VIM4	Linux: Developing Android: Developing

Recommended Applications   Security Surveillance, Industrial Cameras, License Plate Recognition, Object Detection

In the Box   IMX585 Camera Module × 1

[1] Please note that normal wear and tear, as well as damage caused by accidents or misuse, are not covered under the Khadas warranty.