

# Technical Specification

## Starvis USB3.0 Camera imx335 2MP      Model No: **UCM-IMX335**

Sony Starvis No Distortion IMX335 USB3.0 Camera Module Datasheet

### 1. Product Overview



The Sony Starvis IMX335 No Distortion USB3.0 Camera Module is a high-speed imaging solution with zero-distortion lens and starlight sensitivity, optimized for precision applications in drones and robotics. It delivers seamless 5MP video with USB3.0 bandwidth for US and EU integrators.

### 2. Key Features

- Sony IMX335 sensor for starlight low-light (0.001Lux).
- 5MP resolution (2592x1944@30fps) with no distortion lens.
- USB3.0 high-speed transfer for low-latency imaging.
- Autofocus for dynamic focusing in moving scenes.
- UVC-compatible for plug-and-play across platforms.
- Low power consumption for portable use.
- Customizable lenses and interfaces for OEM projects.
- HDR support for high-contrast environments.

### 3. Technical Specifications

Specification

Picture	Description	Specification
	Part No.:	UCM-IMX335-Q-5MP-38x38-USB3.0
	Pixel:	5MP
	Sensor Format:	1/2.8" low light image sensor
	Sensor:	Sony IMX335
	Interface:	USB3.0
	Output Format:	MJPEG/YUY2
	Resolution:	MJPEG 640x480 30FPS / YUY2 640x480 30FPS MJPEG 1280x720 30FPS / YUY2 1280x720 10FPS MJPEG 1920x1080 30FPS / YUY2 1920x1080 5FPS MJPEG 2048x1536 30FPS / YUY2 2048x1536 2FPS MJPEG 2592x1944 30FPS / YUY2 2592x1944 2FPS
	Focusing:	Manual focus
	Microphone:	Support
	Size of module:	38*38mm, support 32*32mm
	Size of lens holder:	13*13mm, PD 18/20mm
	DFOV of lens:	MF 100°, MF 68°, or other
	Accessories:	50cm USB cable (USB-A)
	Operating temperature:	-30°C ~ +70°C
	System:	WinXP / 7 / 8 / 10 / MAC OSK / Linux / Android support UVC
	Feature:	HD 5MP, 2K@30FPS

### 4. Typical Applications

- Drone imaging: Aerial mapping in Des Moines farms.
- Robotics: Precision navigation in Detroit assembly lines.
- Industrial automation: Quality control in Chicago factories.
- Embedded vision: System monitoring in Boston tech hubs.
- Energy sector: Pipeline inspection in remote Russian sites.

## 5. Unique Selling Points vs. Competitors

- No-distortion lens reduces image warp by 50% compared to standard lenses.
- Starlight sensitivity (0.001Lux) outperforms 0.01Lux rivals in low-light by 10x.
- USB3.0 bandwidth enables 30fps 5MP streaming, 2x faster than USB2.0 modules.
- Autofocus (200ms) is 40% quicker than fixed-focus competitors.
- OEM customization at 20% lower cost, with faster turnaround (7 days).

## 6. Custom-Made Available

- Lens Customization: No-distortion options from 90° to 150° FOV.
- Interface Options: USB3.0 standard, customizable to USB2.0/Type-C.
- Cable Customization: Lengths up to 5m with high-speed shielding.
- Firmware Adjustments: Enhanced HDR or compression settings.
- Housing Options: Compact enclosures for vibration resistance.
- Branding/OEM: Private labeling with no MOQ for samples.

## 7, Diagram of Camera Module

