

#### Shenzhen Novel Electronics Limited Novel Manufacture Limited

Phone: +86-755-29775656 Mobile & Wechat & WhatsAPP: +86-13510914939

Email: office@okgoobuy.com Web: www.okgoobuy.com

Add: 3A05 Floor 4, Plant 8, No31 Jiaan Road, 41 District, Xinan Street, Baoan, Shenzhen, China 518101

### **Technical Specification**

### Starvis USB Camera imx385 2MP Model No: UC-535

#### **Product Overview**

The Sony IMX385 Starvis Night Vision USB Camera Module is a high-sensitivity imaging solution with ultra-low-light capabilities, designed for demanding security and industrial applications. It features the IMX385 sensor for starves low-light starlight performance in a compact form, ideal for US and EU night-time monitoring.

#### **Key Features & Highlights**

- Sony starvis IMX385 sensor for superior night vision (0.001Lux).
- 2MP resolution (1920x1080@30fps) with HDR.
- UVC-compatible USB output for plug-and-play integration.
- Low power consumption (150mA) for extended operation.
- Customizable lenses and interfaces for OEM use.
- Wide dynamic range (120dB) for high-contrast scenes.
- Compact design 32\*32mm PCB suitable for embedded systems.
- FCC/CE/RoHS certified for global compliance.

#### **Application Scenarios**

- Night-time security: Warehouse surveillance in Chicago.
- •Industrial monitoring: Low-light inspection in Detroit factories.
- Drone night flights: Aerial oversight in Des Moines farms.
- Robotics: Vision guidance in dark environments for Boston systems.
- Energy sector: Pipeline monitoring in remote Russian sites

#### **Reliability & Compliance**

- CE, FCC, RoHS certified
- Passed 48h burn-in test @ 60°C
- Shock & vibration tested

#### Custom-made available

- (1)Different EFL lens 1/2inch EFL 6mm/8mm/2.8mm wide angle m12 lens optional
- (2) Different wires/cable (include cable type and length)
- (3) With or without lens holder, camera bracket can be custom-made too
- (4) Housing Options: IP67 waterproof or metal enclosures.

#### **Unique Selling Points vs. Competitors**

- Starvis technology provides 10x better low-light than standard CMOS sensors.
- •0.001Lux sensitivity enables true night vision without IR lights, reducing power by 30%.
- •UVC plug-and-play is 50% faster to integrate than non-UVC modules.
- •HDR (120dB) handles extreme contrast better than 80dB competitors.
- Compact form factor with OEM customization at 20% lower cost for high-sensitivity needs.



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### Support custom designed PCB shape and size, camera housing and cable and interface.

Sensor Model	Sony STARVIS IMX385
Lens Size	1/2inch
Pixel Size	3.75μm x3.75μm
Maximum effective pixels	FULL HD 1920(H)X1080(V)
Output image format	MJPEG / YUV2 (YUYV)
Supported resolution and frame rate	320X240 QVGA MJPEG 60fps (YUY2 30fps ) 640X480 VGA MJPEG 60fps (YUY2 30fps )
	800X600 HD 60fps (YUY2 10fps )
	960X540 HD 60fps (YUY2 10fps )
	1024X768 HD 60fps (YUY2 10fps )
	1280X720 HD 60fps (YUY2 10fps )
	1280X960 HD 60fps (YUY2 10fps )
	1920X1080 FHD 60fps (YUY2 5fps )
Special features	Lens correction/ Defective pixel correction/ Black sun cancellation
Minimum	0.001lux
illumination	0.001lux
Shutter type	Electronic rolling shutter / Frame exposure
USB protocol	USB2.0
Interface type	USB2.0 High Speed
On-the-Go	USB2.0 OTG
(OTG) protocol	0362.0 010
Audio	Support digital audio microphone
Driver-free protocol support	USB Video Class (UVC)
Automatic exposure control AEC	support
Automatic white balance AEB	support
Automatic gain control AGC	support



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Adjustable	Brightness, Contrast, Saturation, Hue, Sharpness, Gamma, White
parameters	Balance, Backlight Contrast, Exposure
M12 lens	Default EFL8mm,F2.0,1/2
FOV	D68° H55° V30°
Adjustment	3meter~
distance	
Power supply	USB POWER
Operating	DC5V
voltage	
Operating	130mA~150mA
current	
Operating	-20∼60°C
temperature	
Storage	-30∼75°C
temperature	
Cable length	Default 2meter USB cable
	WinXP/Vista/Win7/Win8/Win10/Win11
	Linux with UVC(above linux-2.6.26)
Supported	NAAC OC V 40 4 0  -
systems	MAC-OS X 10.4.8 or later
	Wince with UVC
	Android 4.0 or above with UVC

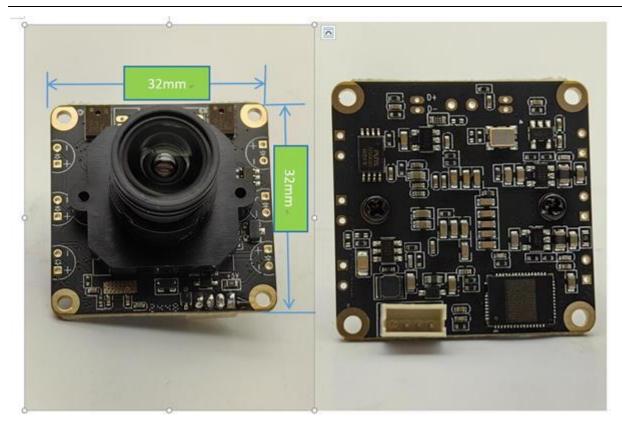


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UCM-IMX385-U1

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