

Shenzhen Novel Electronics Limited Novel Manufacture Limited

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Technical Specification

Micro USB camera 15*15mm 2MP, model No: UC-501-2MP

Product Overview

The 15×15mm Micro USB Camera Module (2MP) is designed for compact embedded vision applications where space, image quality, and integration flexibility are critical. With a high-resolution 2MP sensor and USB plug-and-play interface, this module is ideal for robotics, industrial inspection, drones, IoT devices, and medical equipment.

Highlights:

- Ultra-compact design: only 12×12mm PCB
- High-definition 2MP (1920×1080@30fps) resolution
- USB 2.0/USB-C(Type-C)/Micro USB interface for easy integration
- Low-light performance for night vision & inspection
- Custom lens options available (M12 lens interchangeable)

Key Features

- Sensor: 1/2.9" low light CMOS 2MP
- Resolution: 1920(H) × 1080(V) @ 30fps
- Interface: USB 2.0 (UVC compliant)
- Lens: Interchangeable, DFOV options 5°-230°
- Size: 15×15mm Lens holder
- Low Power Consumption,
- -lightweight (Average Net weight: 40gram include 2m usb cable)

Application Scenarios

- Robotics: AGV/AMR navigation, Cobot vision
- Industrial Inspection: PCB quality control, machinery monitoring
- IoT & Embedded Devices: Smart kiosks, handheld terminals
- Medical & Scientific Devices: Microscopes, portable diagnostics

Reliability & Compliance

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

Custom-made available

- (1)Different EFL lens (include its IR filter) and DFOV can be customized (see below)
- (2)Different wires/cable(include cable type and length) (see below)
- (3) With or without lens holder, camera bracket can be custom-made too
- (4) USB interfaces can be customized (see below)
- (5) rename device name specially even rename every device unique serial number



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Micro USB Camera 15*15mm 2MP





Model No.	UC-501-2MP		
Sensor	CMOS 1/2.9" 2MP		
Resolution	1920*1080P@30FPS		
Output	USB2.0,USB-A / TYPE-C / Micro USB		
DFOV	3°~230° optional		
Focus	Manual		
Photo Format	MJPG		
Video Output	MJPG/YUY2		
White balance	Auto		
Microphone	Built in Microphone		
Dimension	Lens Holder: 15*15mm		
Length of cable	5cm~10M, standard 2.5M		
Power	5V / 130mA, 5V / 90mA		
System	WIN7/8/10/Android/Apple Mac/Linux		
Material	Plastic camera with metal lens		
Temperature	-10~+70℃		

Replaceable Lens options

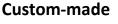
	Distortionless lens	Wide angle lens	Panoramic lens	Telephoto lens	Pinhole lens	Auto focus lens	Starlight lens
Appearance	Tues of	Sub- or		1		0	
EFL(mm)	3.6/4/6/8/12/16	2.1/2.5/2.8	1.0/1.56/1.7/1.8	15/20/22/25/30 /35/45/50/70	2.1/2.5/2.8/3.7/4.3/ 5/6/7/8/10/12	2.8/3.6/6	2.8/4/6/8/12
FOV	90~30°	160~100°	210~170°	30~3°	140~25°	100~60°	110~30°

Interface options



Cable options







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

Spec updated date: 18.08.2025