

# Shenzhen Novel Electronics Limited Novel Manufacture Limited

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

## **Technical Specification**

Micro Autofocus USB camera module 14\*14mm 12MP, model No: UC-503-12MP

#### **Product Overview**

The 14\*14mm Micro USB Camera is a compact, high-resolution autofocus module designed for embedded vision applications. Featuring a super micro size and 12MP sony sensor, it delivers sharp 4K imaging with fast autofocus, making it ideal for drones, robotics, and industrial automation. With UVC compatibility, it's plug-and-play for seamless integration in demanding US and EU environments.

#### **Key Features**

- Super micro size: 14\*14mm for space-constrained designs.
- 12MP resolution with 4K@30fps for crystal-clear visuals.
- Fast autofocus (200ms response time) for dynamic scenes.
- UVC-compliant for cross-platform compatibility (Windows, Linux, Android).
- Customizable interfaces: USB2.0, Micro USB, Type-C.
- Low-light sensitivity (0.01Lux) for versatile use

#### **Application Scenarios & Typical Applications**

- •Industrial automation: Embedded in robotic arms for precise part inspection in Detroit factories.
- Drones: Wide-angle monitoring for crop scouting in Iowa agricultural operations.
- Robotics: Vision guidance for collaborative robots in German manufacturing hubs.
- Embedded vision systems: Real-time processing in UK energy monitoring setups.
- Supermarket electronic scales: Inventory scanning in Swiss retail environments.

#### **Reliability & Compliance**

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

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

- Super micro size (14\*14mm) is 20-30% smaller than competitors' 2020mm modules, enabling tighter integration in drones and robots.
- Fast autofocus (200ms) outperforms standard 500ms models, reducing blur in dynamic industrial applications by 40%.
- Smallest size real 4K@30fps miniature UVC camera ideal for embedded vision system.
- UVC compatibility ensures 50% faster integration compared to non-UVC modules, cutting development time for EU-compliant systems.



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## Micro USB Camera 14\*14mm 12MP





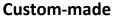
Model No.	UC-503-12MP
Sensor	CMOS 12MP
Resolution	4000*3000P@15FPS, 12MP
	3840*2160P@30FPS, 8MP
	1920*1080P@30FPS, 2MP
Output	USB2.0,USB-A / TYPE-C / Micro USB
DFOV	80°
Focus	Manual
Photo Format	MJPG
Video Output	MJPG/YUY2
White balance	Auto
Microphone	Built in Microphone
Dimension	Cam module: 14*14mm
Length of cable	5cm~5M, standard 2M
Power	5V / 130mA, 5V / 90mA
System	WIN7/8/10/Android/Apple Mac/Linux
Material	Plastic camera with metal lens
Temperature	-10~+70℃

### **Interface options**



### **Cable options**







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

Spec updated date: 18.08.2025