

# Technical Specification

6×6mm Micro AHD Camera Module - 720P Wide Angle    Model Number: [AC-602](#)

## Product Overview

The 6×6mm Micro AHD Camera Module delivers 720P resolution with an ultra-wide 120° field of view. Its ultra-compact design makes it ideal for embedded vision, robotics, industrial inspection, and surveillance applications where space is highly constrained. Designed with analog high-definition (AHD) output, it ensures real-time video transmission without latency, making it a reliable solution for mission-critical applications.

## Key Features

- Ultra-compact Super tiny size: 6\*6mm for discreet integration
- High-definition 720P resolution
- Wide 120° field of view for broad coverage
- Analog HD (AHD) output with real-time performance
- Low power consumption for embedded applications
- Flexible integration for robotics, industrial, and retail systems
- Plug-and-play compatibility with AHD DVRs and AHD monitors
- AHD output for up to 500m transmission via coaxial cable
- PAL/NTSC compatibility for global standards

## Application Scenarios

- Robotics: Compact navigation and obstacle detection camera
- Industrial Equipment: Embedded inspection camera in machines
- Retail: Integrated into smart kiosks and vending systems
- Commercial Surveillance: Ultra-miniature covert monitoring solutions

## Custom-made

Available lens options: 90°, 120°, 150° (customizable)

Connector: RCA / customizable wiring harness

Cable Customization: Various lengths (up to 500m) and materials for rugged environments

Video/camera resolution: we have another higher 1080P AHD camera 6\*6mm model

(Customizable lenses and interfaces for OEM needs)

## Reliability & Compliance

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

## Miniature AHD Camera module:



<b>Model No.</b>	AC-602-MP
<b>Sensor</b>	CMOS 1/4" MP AHD
<b>Resolution</b>	1280*720P@25FPS, PAL (NTSC is optional)
<b>Output</b>	AHD, RCA / BNC
<b>DFOV</b>	30°~120° optional
<b>Focus</b>	Manual
<b>White balance</b>	Auto
<b>Dimension</b>	PCB: 6*6mm
<b>Length of cable</b>	20cm~2M, standard 0.5M
<b>Power</b>	12V / 50mA
<b>Temperature</b>	-10~+60°C

Lens is optional.

Default Lens type: m5.5 mount type

### Interface options

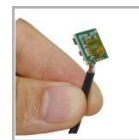


RCA+DC



BNC+DC

### Custom-made



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

## Typical Applications in United States

- Security surveillance: Hidden monitoring in New York City ATMs or Chicago retail stores.
- Vending machines: Embedded in Cleveland kiosks for anti-vandalism.
- Industrial equipment: Fault detection in Detroit conveyor belts.
- Vehicle cabin monitoring: Driver safety in Dallas trucks.
- Agricultural machinery: Crop oversight in Iowa harvesters.
- Consumer electronics: Smart doorbells in San Jose homes.

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