

Shenzhen Novel Electronics Limited Novel Manufacture Limited

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Technical Specification

Mini Sony IMX323 AHD Camera 2MP, model Number: AC-501-2MP-J

Product Overview

The IMX323 Micro AHD Camera (15×15mm, 2MP) is a compact, high-performance analog HD camera module designed for embedded vision and industrial monitoring applications. With its small PCB size and powerful Sony IMX323 sensor, it delivers superior image quality in low-light conditions, making it ideal for security, robotics, and machine vision.

Key Features

- Compact 15×15mm micro size ideal for embedded vision design
- •2MP resolution (1920×1080 @ 30fps)
- Sony IMX323 sensor for superior low-light performance
- •AHD analog video output, plug-and-play compatible
- ·Low power consumption for embedded application and efficient operation
- •Supports interchangeable M12 lens options
- Durable PCB design for industrial integration

Typical Applications

- 1,Industrial machine vision systems
- 2, Home and commercial Security and CCTV
- 3,Industrial equipment monitoring
- 4,Industrial embedded vision system
- 5,Smart retail monitoring
- 6, Medical device imaging modules

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)

other EFL Replaceable m12 lens available as following

A1, pinhole m12 lens

EFL 2.1/2.8/3.7/5/6/7/8/10/15/20/22/25/30/35/45/70mm

A2, Flat normal m12 lens

1.08/1.39/1.44/1.56/1.7/1.8/2.1/2.8/3.6/4/6/8/9.9/12/16/25/50mm

- (2) Different wires/cable (include cable type and length) (see below)
- (3) With or without lens holder(board-level PCB), camera bracket can be custom-made too Customizable lenses and interfaces for OEM flexibility



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Micro AHD Camera 15*15mm 1080P





Model No.	AC-501-2MP-J			
Sensor	SONY IMX323 CMOS 1/2.9" AHD			
Resolution	1920*1080P@25FPS, PAL			
	(NTSC is optional)			
Output	AHD, RCA / BNC interface			
FOV	90°, Pinhole lens, optional			
Focus	Manual			
White balance	Auto			
Microphone	With Microphone			
Dimension	Holder: 15*15mm			
Length of cable	20cm~2M, standard 0.5M			
Power	12V / 50mA, 12V / 90mA			
Material	Plastic camera with metal lens			
Temperature	-10~+65℃			

Lens options

	Distortionless lens	Wide angle lens	Panoramic lens	Telephoto lens	Pinhole lens	Starlight lens
Appearance	The second	July 62	1	1		
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	2.8/4/6/8/12
FOV	90~30°	160~100°	210~170°	30~3°	140~25°	110~30°

Interface options





RCA+DC BNC+DC

Custom-made



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

Datasheet updated date: 08/18/2025