



Datasheet

Arducam inVisCam 1080P Ultra Low Light Mini Size USB2 UVC Camera Module

Overview
Disclaimer
Highlight Features
Product Specification
Mechanical Drawing
More Resources
Certification

1. Product Description

The Arducam inVisCam is a revolutionary 1080P ultra-low light mini USB2 UVC camera designed for tight, space-constrained installations. Measuring just 19.5×15×17.3 mm, this ultra-compact device features advanced STARVIS™ 2 starlight technology, capturing exceptionally clear and bright video where standard mini cameras see only darkness. Beyond its stealthy size and exceptional night-vision performance, it boasts remarkably low power consumption, making it ideal for continuous, long-term deployments. With driverless UVC setup, it offers a perfect balance of micro-sizing, high-sensitivity imaging, and effortless cross-platform integration. What's more, if off-the-shelf solutions don't meet your needs, Arducam offers end-to-end custom camera design services to help you turn your ideas into real products. From early concept to mass production, we work closely with you to tailor an imaging solution to meet your unique technical requirements and product goals.

2. Scope

The scope of this spec, includes

- (1) SONY 1080P Low Light Image Sensor
- (2) Arducam Ultra Low Light 1080P Compact Camera
- (3) Functionality and Compatibility
- (4) Electrical and Mechanical Parameters

In this scope, it does not include

- (1) Reliability-Module Level
- (2) Schematic

Above optional items can be designed by customer demand.

[Overview](#)[Disclaimer](#)[Highlight Features](#)[Product Specification](#)[Mechanical Drawing](#)[More Resources](#)[Certification](#)

Disclaimer

While we have made every effort to ensure the accuracy and completeness of the information presented in this datasheet, Arducam reserves the right to make changes to product specifications, features, and documentation without notice. All information provided in this datasheet is subject to change and should be considered for reference purposes only

[Overview](#)[Disclaimer](#)[Highlight
Features](#)[Product
Specification](#)[Mechanical
Drawing](#)[More
Resources](#)[Certification](#)

Highlight Features

Ultra Low Light Excellence

Enhanced by Nyxel® near-infrared and PureCel®Plus technologies, this camera module excels in dim environments, capturing bright, color-accurate, and ultra-low-noise images under the most challenging lighting conditions.

1080P HD Definition

Stream and record crystal-clear Full HD video at smooth frame rates, ensuring that every crucial detail is preserved for high-accuracy analysis or high-quality video streaming.

100° Wide Angle View

Equipped with a finely calibrated 100-degree diagonal field of view lens, it maximizes visual coverage, making it ideal for monitoring expansive areas without unacceptable distortion.

Seamless Plug-and-Play

Fully compliant with UVC standards, this USB2 camera module requires no extra drivers, offering hassle-free compatibility with Windows, Linux, and Android systems out of the box.

Advanced ISP Controls

The onboard Image Signal Processor allows users to fine-tune every detail through manual or automatic adjustments, including brightness, contrast, saturation, white balance, exposure, and gain.

[Overview](#)[Disclaimer](#)[Highlight Features](#)[Product Specification](#)[Mechanical Drawing](#)[More Resources](#)[Certification](#)

Product Specification

Camera Specs	
Still Resolution	2 Megapixels
Color Filter Type	Color
Shutter Type	Rolling
Optical Size	1/2.8"
Output Format	MJPEG/YUY2/H.264
Pixel Size	2.9μm x 2.9μm
Sensor Active Area	1920(H) x 1080(V)
Frame Rate (MJPEG/H.264)	1920×1080@30fps, 1280×720@30fps; 800×600@30fps, 640×480@30fps, 320×240@30fps;
Frame Rate (YUV)	640×480@30fps, 320×320@30fps; 320×240@30fps; 128×128@30fps; 96x96@30fps
Lens Specs	
Focus Type	Fixed Focus
FOV	95°(D) ×82° (H)×66°(V)
Lens Mount	M12-S
F.NO	F2.5
E.F.L	3.7mm
IR Sensitivity	Integral 650nm IR Filter
Default Focus Distance	100cm~INF
Distortion	<-13%

[Overview](#)[Disclaimer](#)[Highlight Features](#)[Product Specification](#)[Mechanical Drawing](#)[More Resources](#)[Certification](#)

Product Specification

USB Features	
Interface	USB 2.0 Device
Connector	USB Type-C
UVC Compliant	No additional drivers required
Functionality and Compatibility	
Supported OS	Windows, Linux, Android and MacOS
Recommend Sample Application	Amcap for Windows, qv4l2 for Linux
UVC Controls	Brightness, Contrast, Gamma, Gain, Sharpness, Backlight Compensation, Lowlight Compensation, Exposure (Manual/Auto)
Electrical and Mechanical	
Operating Voltage	5 V +/- 5%
Power Consumption	1.2W
Camera Board Size	19.5×15×17.3 mm
Overall Weight (Net)	12g
Standard and Certifications	
Temperature range (Storage)	-4°F-167°F (-20°C to +85°C)
Temperature range (Operating)	32°F-122°F (0°C to +50°C)
Certification	RoHS

[Overview](#)[Disclaimer](#)[Highlight Features](#)[Product Specification](#)[Mechanical Drawing](#)[More Resources](#)[Certification](#)

Mechanical Drawing

1. Dimension(mm)



2. 3D Drawing

Please contact [Arducam sales](#) for 3D Drawing of camera module.

[Overview](#)

[Disclaimer](#)

[Highlight
Features](#)

[Product
Specification](#)

[Mechanical
Drawing](#)

[More
Resources](#)

[Certification](#)

More Resources

For any product-related questions, please feel free to contact us:

- Official website: www.arducam.com
- Contact form: <https://www.arducam.com/contact-arducam/>
- Official Wiki: <https://docs.arducam.com/>
- Quick Start Guide on Windows: [Quick Start Guide on Windows](#)
- Quick Start Guide on Linux: [Quick Start Guide on Linux](#)
- Support E-mail: support@arducam.com

[Overview](#)[Disclaimer](#)[Highlight
Features](#)[Product
Specification](#)[Mechanical
Drawing](#)[More
Resources](#)[Certification](#)

[Overview](#)[Disclaimer](#)[Highlight
Features](#)[Product
Specification](#)[Mechanical
Drawing](#)[More
Resources](#)[Certification](#)