

INOGENI



INOGENI U-CAM

User guide

Version 1.0

4/19/22

VERSION HISTORY

Version	Date	Description
1.0	April 19, 2022	First release

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TYPICAL APPLICATION

Here is a typical connection diagram used for the U-CAM device in a videoconferencing setup.

INOGENI U-CAM

USB Camera + USB Micro to HDMI 4K



Ideal for

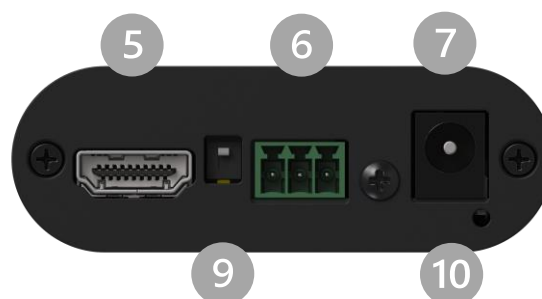
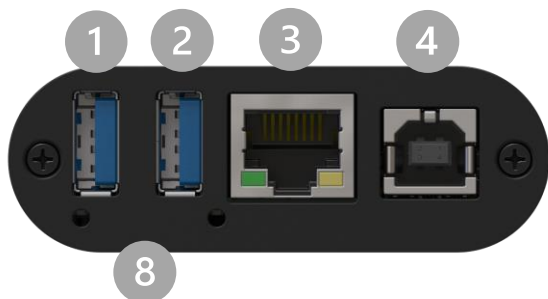


zoom



DEVICE INTERFACES

Here are the devices interfaces.



- ① USB input #1
- ② USB input #2
- ③ LAN port
- ④ USB 2.0 output
- ⑤ HDMI output
- ⑥ RS232 port
- ⑦ +12V power input
- ⑧ USB device detection leds
- ⑨ Factory upgrade switch
- ⑩ System activity led

LEDS BEHAVIOR

Here are the leds behavior:

USB input

OFF No USB camera/device connected.

SOLID USB camera/device connected.

System activity led

OFF No power present on board.

BLINK System firmware running correctly.

SPECIFICATIONS

Here is the complete specification.

Physical details	
Dimensions (W x L x H)	70 x 83 x 23 mm
Power supply	12V
Power consumption	Up to 1.2A
Weight	136 g
Package content	1 x USB 2.0 Type-B to Type-A cable. 1 x terminal block connection. 1 x 12V power supply.
Operating temperature	0° to 45° C (32° to 113° F)
Storage temperature	-40° to 105° C (-40° to 221° F)
Origin	Canada
Warranty	2 years

USB inputs	
2x USB 3.0 inputs	Capture video and audio from USB 3.0 and 2.0 cameras Capture is done from a single camera at a time
Video capabilities	MJPEG: Up to 1080p30 using USB 2.0/3.0 YUYV: Up to 1080p60 using USB 3.0, 1080p10 using USB 2.0
Audio capabilities	Device will capture embedded audio from USB camera or external USB device and will output through HDMI.

HDMI output	
Resolution	3840x2160p23.98/24/25/29.97/30 fps, 1080p50/60 fps, 720p50/60 fps
Connector	HDMI

USB output	
USB-B connector	Device will expose a UVC interface over USB 2.0 up to 720p30 MJPEG

Compatibility	
Operating system	NO driver installation necessary Windows 7 and above (32/64-bit) macOS 10.10 and above,
Cameras Supported	Cameras (or video Source) with an USB output
Software Compatibility	UVC-compliant. Runs with all software compatible to DirectShow/MediaFoundation, V4L2, QuickTime and AVFoundation.

SERIAL COMMUNICATION PROTOCOL

Here is the complete list of commands provided through the serial connection. Pinout is indicated on the enclosure.

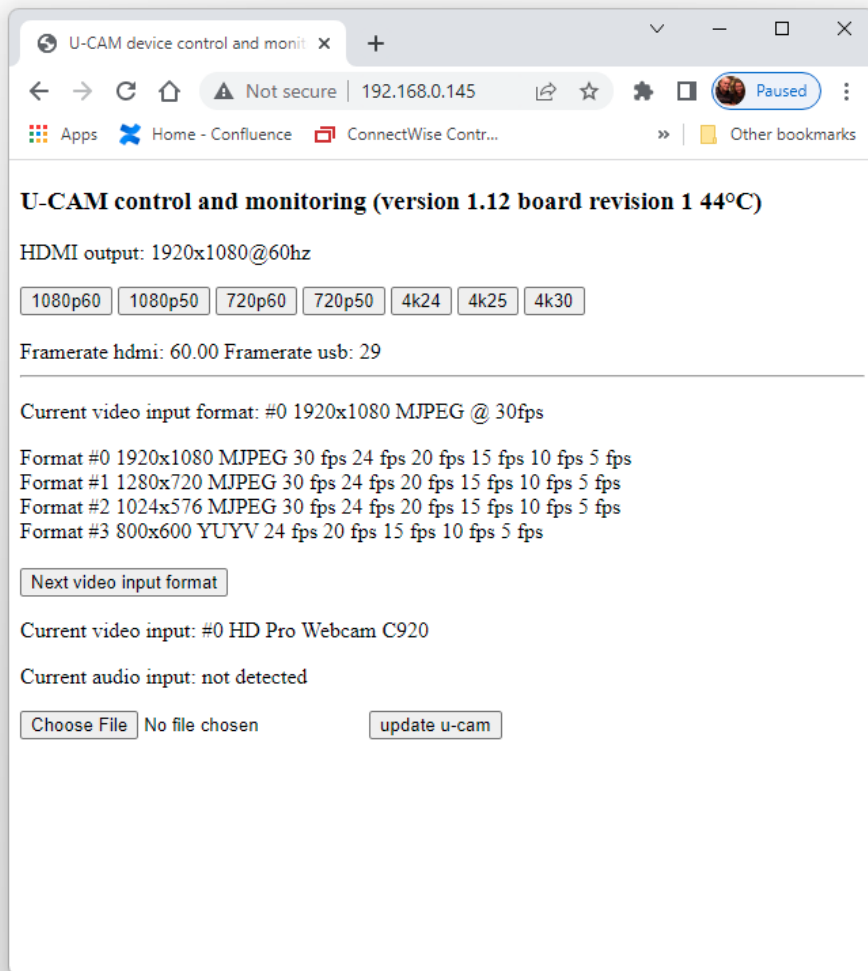
Baud rate: 9600 // **Data bits:** 8 // **Stop bits:** 1 // **Parity:** None // **Flow control:** None

Commands	Arguments	Return	Function description
No commands supported for the moment			

LAN COMMUNICATION PROTOCOL

You can access the device settings through its LAN interface.

There is a simple webpage where you can configure the HDMI output and the selected USB resolution of your camera.

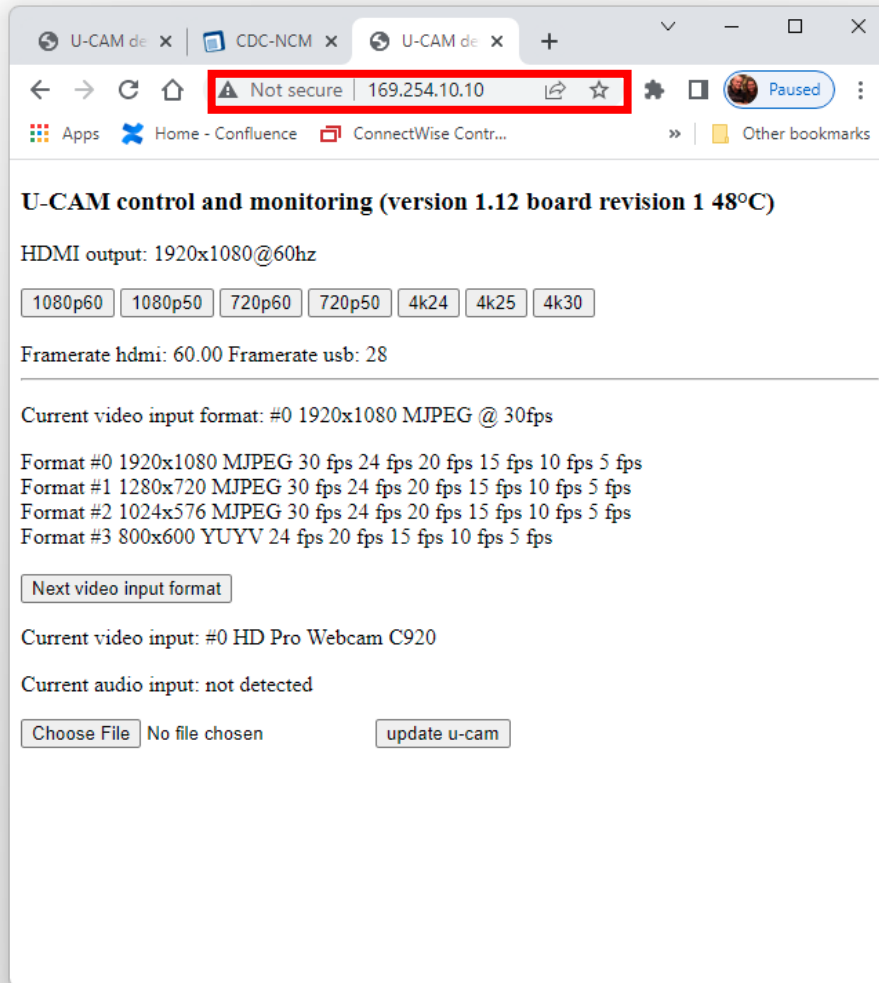


CDC-NCM COMMUNICATION PROTOCOL

The device can also be controlled through CDC-NCM interface exposed on the USB2.0 device port.

This interface has the same functions as the LAN interface, except the requests are done through USB in order to ease configuration.

CDC-NCM IP address: 169.254.10.10



INOGENI CONTROL APP

You can use our Control App to monitor firmware information, upgrade and configure your unit.



NOTE: You need to use the USB-B to USB-A cable provided with the box for the Control App to detect the unit.

INOGENI Control App (Version 3.12.15)

Update Video Help

Device: INOGENI U-CAM

Connected Reset device

Preview

Video Device	Resolution	Format	Frame Rate
vMix Video	1280x720	YUYV	29.97

Audio Input Device	Audio Output Device	Audio Input Level
	DELL U24171	

Firmware Information

USB controller: 1.12
MAC Address: E4:5F:01:1F:F8:B5
IP Address: 192.168.0.145
PID: 0x001E
Serial number: UC21390055

Video Information

USB input: 1920x1080 MJPEG 30Hz
HDMI output: 1920x1080p @ 60.00

Engineered by video professionals, for video professionals, it is your most compatible USB 3.0 device. INOGENI expertise at your fingertips:

- **Expert Technical Support team** at support@inogeni.com for immediate help or if you have any technical question about our products.
- Extensive **Knowledge Base** to learn from other customers experiences.

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