

IP2USB

NETWORK AV TO USB BRIDGE (NDI & DANTE AUDIO)

Connect multiple NDI®HX/RTSP and Dante based cameras to a laptop or UC system via USB with an 4K HDMI output

DEVICE CONNECTORS



OVERVIEW

IP2USB – IP-to-USB converter and multi-camera switcher for professional AV setups with AVoIP support

Next-level pro AV integration with IP-to-USB conversion
The INOGENI IP2USB is a specialized converter and switcher that enables users to connect NDI® HX or RTSP IP-based cameras and Dante audio to USB peripherals, eliminating the need for costly USB extenders. It bridges IP cameras with your favorite web communication platform, delivering a cost-effective way to integrate cameras and audio devices.

Key features

- Convert NDI® HX, RTSP and supported USB cameras to USB and HDMI outputs
- Switch instantly between network and USB camera sources via web interface, API or third-party control systems
- Support one USB/UVC camera input through USB-A port #1 as an additional video source
- Control compatible PTZ cameras and presets, including supported USB and IP camera models
- NDI® Certified for proven interoperability, performance and reliability
- Room-side integration support, enabling keypad or control processor-based source selection
- USB host connection via 1x USB 2.0 Type-B for Room PCs, CODECs and laptops

Video and audio performance

- Optimized for NDI® HX/HX2/HX3 (1080p60 H.264/H.265) and RTSP streaming

- UVC 1080p30 MJPEG video output
- UAC audio I/O support for bidirectional USB audio
- Dante audio integration with easy routing through Dante Controller - [Learn more](#)
- Audio processing support for HDMI and USB audio routing

Seamless integration and flexible control

- Control via IP, RS-232 or USB
- **Camera control:** VISCA and PTZ via preset commands
- LED indicators for power and RJ45 link status
- Easy integration with third-party AV control systems

Reliable and efficient

- Direct IP connectivity reduces reliance on costly DSP and USB extension systems
- Backed by a 5-year warranty
- Made in Canada and TAA-compliant

IP2USB multi-camera switcher with CAMTRACK automates AVoIP switching for up to 10 cameras

- The IP2USB functions as a high-performance hardware switcher managed by CAMTRACK, your Virtual Technical Director software. CAMTRACK uses Shure microphone data to trigger automated, voice-activated camera switching based on the active speaker.
- [See more applications](#)

HOW IT WORKS?

IP2USB bridges up to 10 NDI® HX and RTSP cameras, plus one supported USB camera, with USB-based conferencing and collaboration platforms. It converts and switches between all connected sources. It then delivers the selected feed as a standard USB camera to Teams Rooms, Zoom Rooms, Webex, conferencing CODECs and laptops.

Powered by INOGENI's proven AV bridging technology, IP2USB delivers high-quality, low-latency video and audio with reliable performance. When paired with a keypad or control system, it enables fast source switching between cameras, ensuring smooth transitions that keep meetings and discussions flowing naturally.

IP2USB is NDI-certified.

For environments with multiple cameras, the IP2USB can aggregate the signals from each camera, routing them over a single Ethernet connection to your laptop or CODEC system. This enables direct connection of advanced cameras to USB-enabled video conferencing hardware or software without additional infrastructure. IP2USB also supports PTZ control, making it an ideal choice for dynamic, multi-camera environments.

In addition to video, the IP2USB provides full audio integration, supporting UAC audio I/O over USB and HDMI audio output. This enables straightforward routing of audio from USB peripherals to HDMI sinks or to USB-connected systems. With flexible control via IP, USB, and RS-232, the IP2USB is a versatile solution that simplifies pro AV setups and delivers reliable, professional-grade performance.

The right camera view. Exactly when you need it.

Empower meeting participants to instantly select the most relevant view, whether focusing on the presenter, the entire room, or the whiteboard. Simple, intuitive, and fully integrated with your room control system.

Dante audio integration with IP2USB

The IP2USB supports Dante audio, providing seamless, bidirectional audio over IP. This integration enables easy routing and streamlined audio handling for professional AV systems.

- **Dual configuration options:**
 - 2x2 Audio interface
 - 1x1 Speakerphone mode
- **Flexible Dante routing:**
 - Signals can be routed via the **Dante Controller**, a familiar to integrators who use Dante for networked audio.
 - Transmit **2x In** and **2x Out** Dante audio channels to the USB interface synchronized with video signals.

More about Dante capabilities:

With Dante, the IP2USB integrates audio over a single network, eliminating the need for traditional DSP (Digital Signal Processing). This makes the setup simpler, faster, and improves efficiency, as the Dante Controller handles all routing. This setup is ideal for users already familiar with Dante in their AV workflows, offering both flexibility and reliability in networked audio integration.

Centralized commands: IP2USB integrated web interface

The **IP2USB** features a powerful integrated web interface for managing multiple IP camera sources. This intuitive interface allows integrators to perform live camera switching, monitor connection status at a glance, and recall precise PTZ presets. Designed for mission-critical stability, it streamlines the full lifecycle of your AV deployment—from initial configuration and friendly source naming to simplified, one-click firmware updates.

- **Real-time diagnostics and control:** Instantly toggle between IP and NDI® HX feeds and monitor live signal health without interrupting meeting flow.
- **Streamlined management:** Customize device settings and maintain peak performance with simple remote configuration tools and full API support for deep third-party integration.

WHAT'S IN THE BOX

- 1x IP2USB converter
- 1x 1 m (3 ft.) USB 2.0 cable (Type-A to Type-B)
- 1x RS-232 terminal block adapter
- 1x Quick Start Guide
- 1x power supply 100-240 VAC 50/60Hz to 12V/1.2A DC
 - International adapters included in the box (AUS, EUR, UK and US)

FEATURED CONNECTORS



DEVICE INTERFACES



TECHNICAL SPECIFICATIONS

IP VIDEO INPUTS	
Connector	1 x RJ45 (10/100Mbps)
Supported standards	NDI Certified NDI® HX/HX2/HX3 (H.264/H.265) RTSP * Full NDI HQ support will be available in a future firmware update
Video resolutions	Up to 1920x1080p60

AUDIO	
Supported USB devices	DSP & speakerphones
Supported Dante devices	DSP, microphones and speakers Audio Channels: 2x in, 2x out Sample rate: 48kHz

USB VIDEO INPUT	
Connector	USB 3.0/2.0 Type-A on port #1
Supported standards	UVC standard
Video capabilities	Support for YUY2, NV12 and I420 pixel formats in uncompressed mode: - Up to 1080p30 in USB 3.0 - Up to 1080p10 in USB 2.0 Support for MJPEG: - Up to 1080p30 in USB 3.0/2.0

USB DEVICES	
Connectors	2x USB 3.0/2.0 Type-A Port #1: for USB/UVC camera Port #2: for DSP & speakerphone

TECHNICAL SPECIFICATIONS – CONT.

USB OUTPUT

Connector	1x USB 2.0 Type-B UVC interface up to 1080p30 MJPEG UAC interface with audio I/O PTZ control supported
Video scaler	Automatic hardware based
Color space conversion	Automatic hardware based
Sampling conversion	Automatic hardware based
Frame rate conversion	Automatic hardware based

HDMI OUTPUT

Connector	1x HDMI
Video resolutions	3840x2160p24/25/30/50/60 fps 1080p50/60 fps 720p50/60 fps
Color space	YUV422 and YUV420 to RGB conversion
Embedded audio	Device will capture embedded audio from IP or external USB device and will output through HDMI
Chroma subsampling	YUV/RGB 4:4:4, 4:2:2

CONTROL

IP interface	10/100 Mbps Supports DHCP or static IP addressing
RS-232 interface	3x positions – Terminal block Baud rate: 9600 (default) Data bits: 8 Stop bits: 1 Parity: None Flow control: None
PTZ and presets	Able to do PTZ and recall camera presets using NDI® or VISCA over IP protocols on supported cameras in next firmware release.

INFORMATION

UPC code	051497480424
Origin	Canada
Warranty	5 years

COMPATIBILITY

Operating system	NO driver installation necessary! Windows 10 and above (32/64-bit) macOS 10.10 and above Linux (kernel v2.6.38) and above
Consumed USB tiers	1 tier
Supported cameras	Any NDI® / NDI® HX and RTSP camera source that support up to 1080p60 are supported
Software compatibility	UVC-compliant, it runs with all software compatible with DirectShow, AVFoundation and V4L2. Compatible with: Teams, Zoom, Webex, Google Meet, etc.

PHYSICAL DETAILS

Dimensions (W x L x H)	7.0 cm x 8.3 cm x 2.3 cm 2.76" x 3.76" x 0.90"
Power supply	12V (100-240 VAC 50/60Hz to 12V/1.2A DC)
Weight	140 g (0.31 lb)
Package content	1x IP2USB converter 1x 1 m (3 ft.) USB 2.0 cable (Type-A to Type-B) 1x RS-232 terminal block adapter 1x Quick Start Guide 1x power supply 100-240 VAC 50/60Hz to 12V/1.2A DC International adapters included in the box (AUS, EUR, UK and US)
Operating temperature	0°C to 45°C / 32°F to 113°F
Storage temperature	-40°C to 105°C / -40°F to 221°F
Relative humidity	0% to 90% non-condensing

CERTIFICATIONS

Certifications	FCC, CE, RoHS, IEC62368, SoV, RCM, KC, MSIP, NOM, NDI Certified
TAA-compliant	Yes

For technical support, contact us at support@inogeni.com

