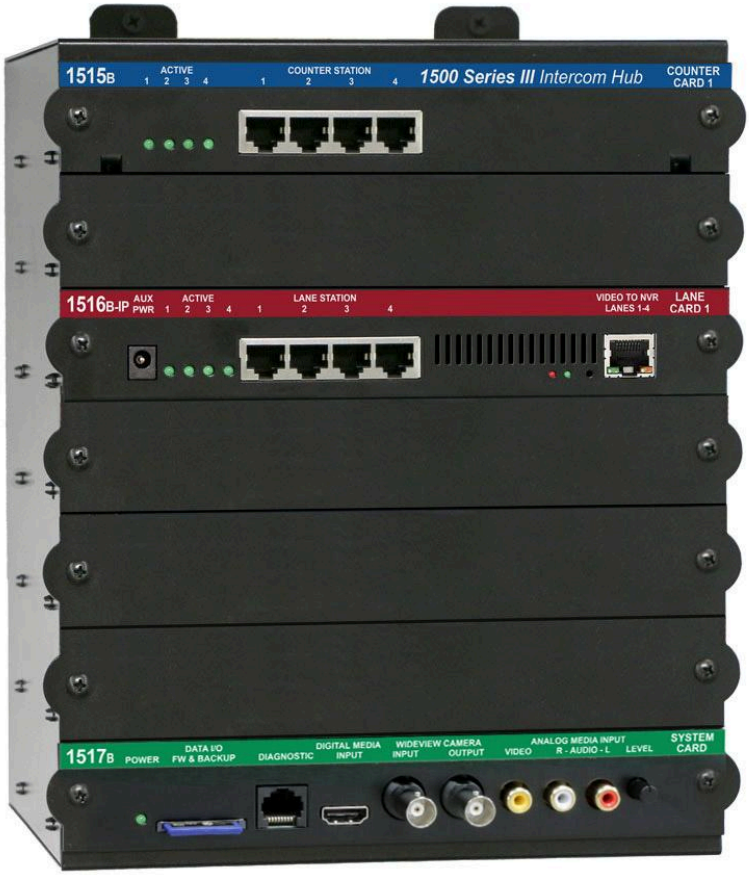
IP Streaming from Lane Cameras

Video Configuration Guide



Model 1516B-IP Hub Card
for 1500 Series III Intercom Systems

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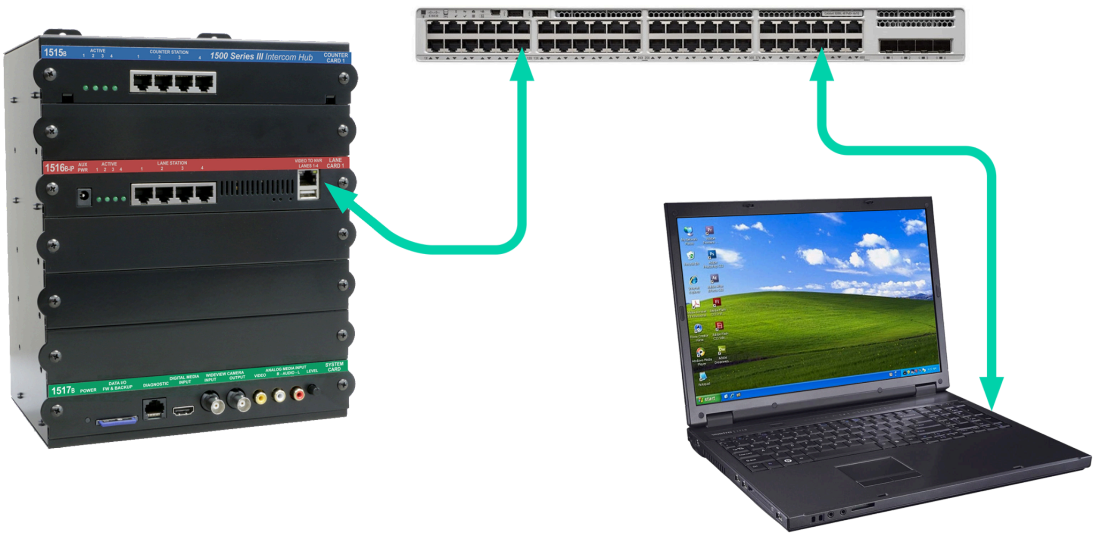


This document outlines the setup and configuration process for the 1516B-IP RTSP Video system. The web-based interface allows administrators to configure network settings, synchronize system time, and independently adjust the video feeds for cameras connected to each 1516B-IP card. All settings shown are defaults except where noted.

How to Connect

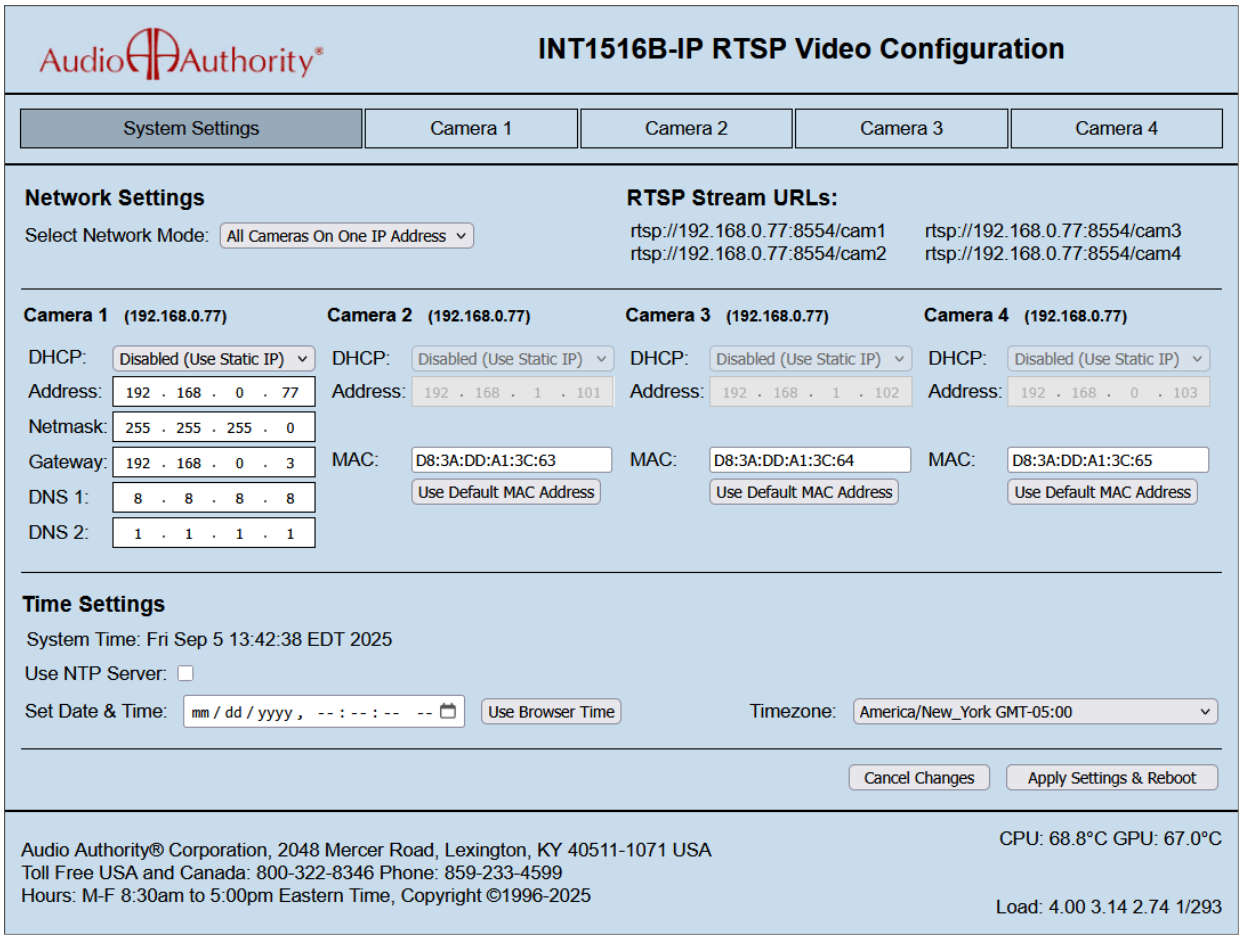
Using Ethernet cables, connect your computer to the same network as the 1516B-IP. Configure your computer to some other address than 192.168.1.254 and then go to 192.168.1.254 in a web browser to bring up the 1516B-IP interface.

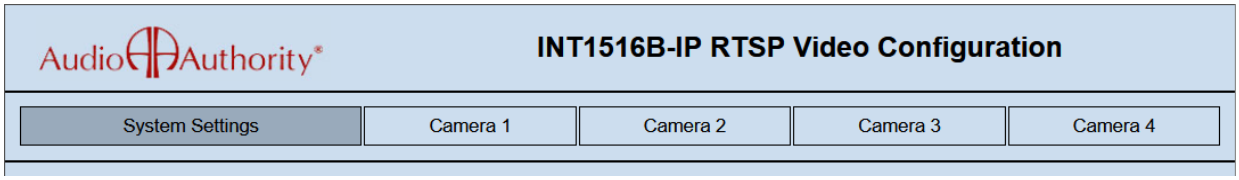
Username: admin
Password: adminpassword



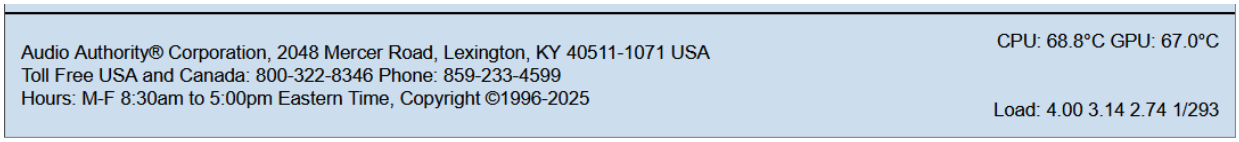
Global Interface Navigation

The interface provides access to configuration panels and real-time device health metrics.





Located at the top of the interface, these tabs (System Settings, Camera 1, Camera 2, Camera 3, Camera 4) allow you to switch between global device configurations and individual camera adjustments.



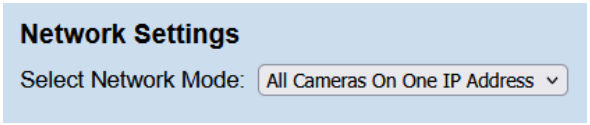
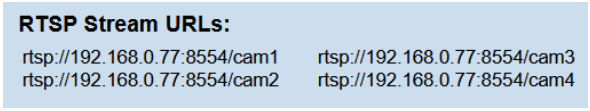
The bottom right corner continuously displays real-time hardware diagnostics, including CPU/GPU Temperatures and System Load averages, to help monitor device health.

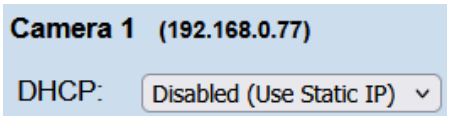
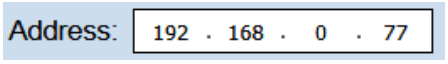
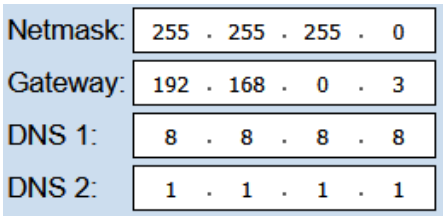
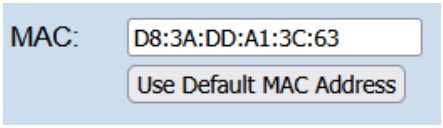
1. System Settings Tab

The System Settings tab is the landing page for the interface and controls the core network and time configurations for the device.

Network Settings

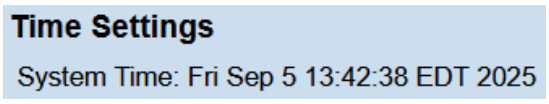
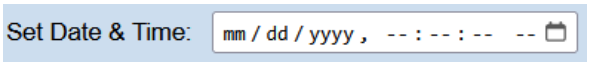
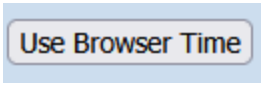
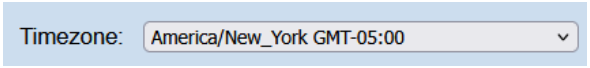
This section determines how the device and its camera streams communicate on your local network.

Setting	Function & Usage
Select Network Mode 	A dropdown menu that defines how IP addresses are assigned to the cameras. It dictates how the cameras communicate and which fields are editable. • **All Cameras On One IP Address:** Routes all four camera streams through the primary IP address of the device (Camera 1) using different URL paths (e.g., /cam1, /cam2). When this is selected, the IP configuration fields for Cameras 2, 3, and 4 are disabled. • **One IP Address Per Camera:** Allows each camera to be assigned its own unique IP address on the network. When this is selected, the DHCP and Address fields for Cameras 2, 3, and 4 become active and editable.
RTSP Stream URLs 	Displays the direct network links required to access the RTSP video feeds from third-party viewing software (e.g., an NVR or PC application like VLC).

Setting	Function & Usage
DHCP 	Dropdown to toggle between automatic IP assignment (DHCP) or a Static IP.
Address 	The assigned IP address for the camera. (Editable for Cameras 2-4 only when "One IP Address Per Camera" is selected).
Netmask, Gateway, DNS 1 & 2 	Standard network fields to manually define the device's location on the network (configured globally via Camera 1).
MAC / Use Default MAC Address 	Displays the physical hardware address for each camera. The button allows you to revert to the factory-assigned MAC address if it was spoofed or altered.

Time Settings

Accurate time settings are crucial for video timestamp overlays.

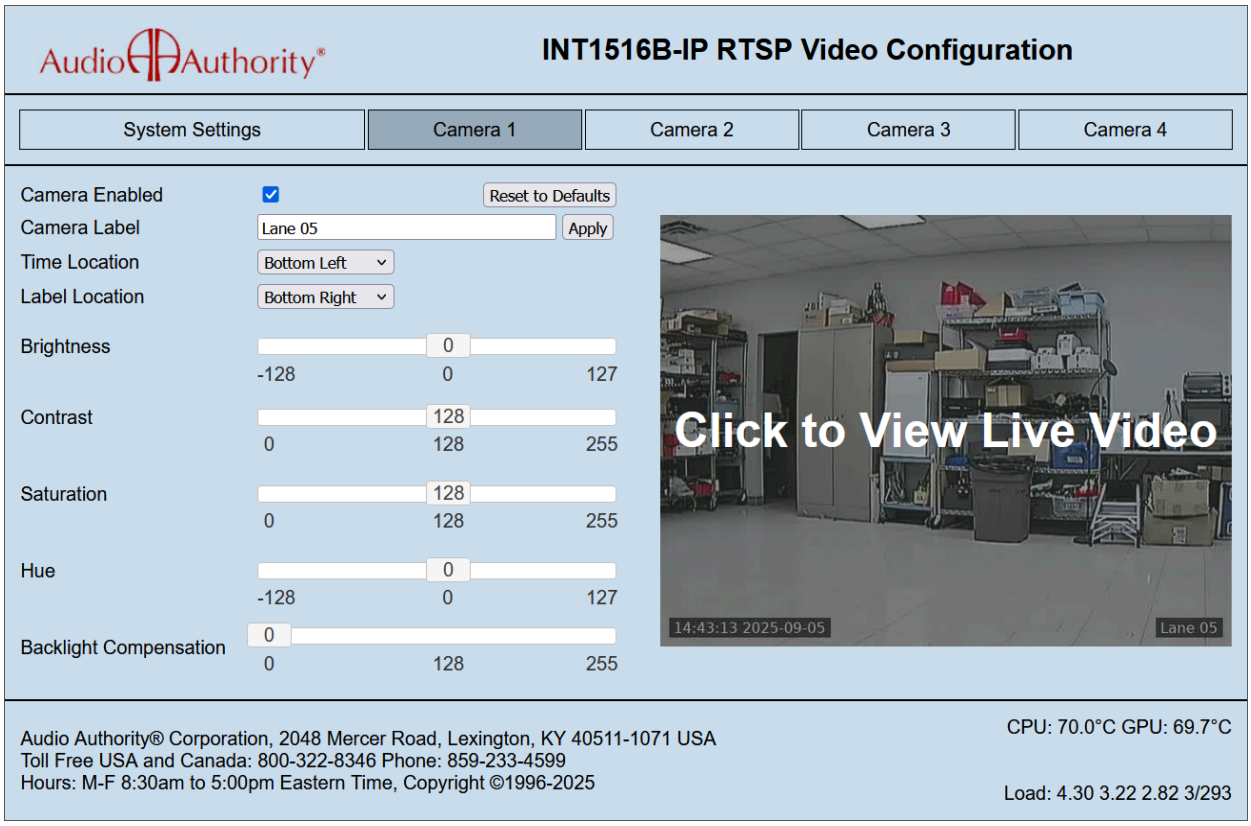
Setting	Function & Usage
System Time 	Displays the currently set date and time on the hardware.
Use NTP Server 	A checkbox that, when enabled, allows the device to automatically sync its time with a Network Time Protocol server over the internet.
Set Date & Time 	A manual entry field and calendar picker to set the system time by hand.
Use Browser Time 	A quick-sync button that pulls the current time from the computer you are using to access the web interface and applies it to the device.
Timezone 	A dropdown menu to ensure timestamps reflect your local geographic region.

Action Buttons

- **Cancel Changes:** Discards any unsaved modifications made on the System Settings tab.
- **Apply Settings & Reboot:** Saves the current configuration and restarts the hardware to apply the new network and time parameters.

2. Camera Configuration Tabs (Cameras 1 - 4)

Each camera has a dedicated tab for managing its specific video feed, overlays, and image quality. The layout is identical for Cameras 1 through 4.

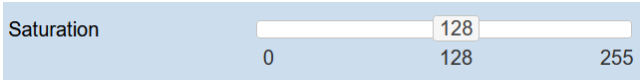
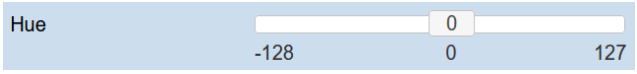


Basic Camera Settings

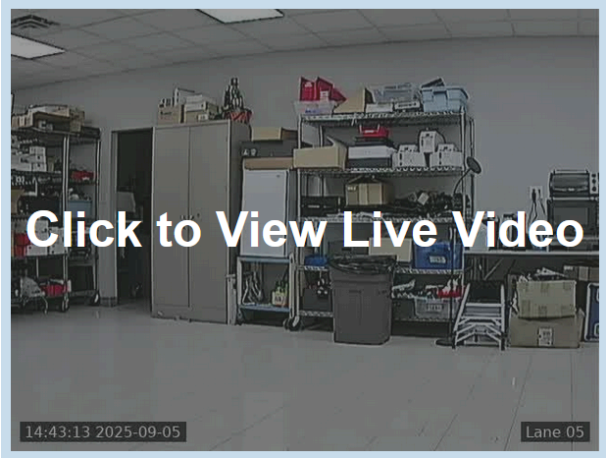
Setting	Function & Usage
Camera Enabled 	A toggle box to turn the specific camera's video feed on or off.
Reset to Defaults 	Reverts all image adjustments (brightness, contrast, etc.) and text overlays for this specific camera back to factory settings.
Camera Label 	A text input field to assign a human-readable name to the camera (e.g., "Lane 05"). Click the **Apply** button to save the name.
Time Location 	A dropdown menu to determine where the date/time stamp appears on the video feed (e.g., Bottom Left).
Label Location 	A dropdown menu to determine where the custom camera label appears on the video feed (e.g., Bottom Right).

Image Adjustments

This section provides sliders and numeric input fields to fine-tune the video output for different lighting environments.

Parameter	Range	Description
Brightness 	-128 to 127	Adjusts the overall lightness or darkness of the image.
Contrast 	0 to 255	Adjusts the difference between the lightest and darkest parts of the image.
Saturation 	0 to 255	Controls the intensity of the colors in the feed.
Hue 	-128 to 127	Shifts the color spectrum of the image.
Backlight Compensation 	0 to 255	Helps clarify subjects that are in front of a bright light source by adjusting the exposure.

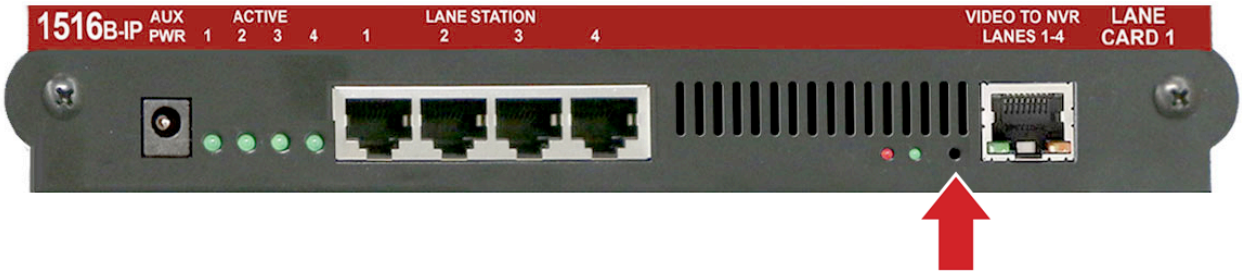
Live Preview Window



Video Player: A large viewing pane on the right side of the screen. Clicking the area labeled **"Click to View Live Video"** will initiate a real-time stream, allowing you to instantly see the results of your label placements and image adjustments.

4. Physical Reset Button

Each 1516B-IP has a reset button which can be actuated by using a tool such as a paperclip. Press and hold the reset button to reboot the 1516B-IP card or reset it to factory defaults. Note that a reset to factory defaults does eliminate a static IP address and reverts to DHCP.



Observe the following behavior of the green heartbeat light after pressing the reset button:

1) Slowest rate; when released nothing happens
2) Slightly faster blink rate; when released the card reboots
3) Even faster blink rate; when released the entire unit resets to factory defaults
4) Fastest blink rate; when released nothing happens

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