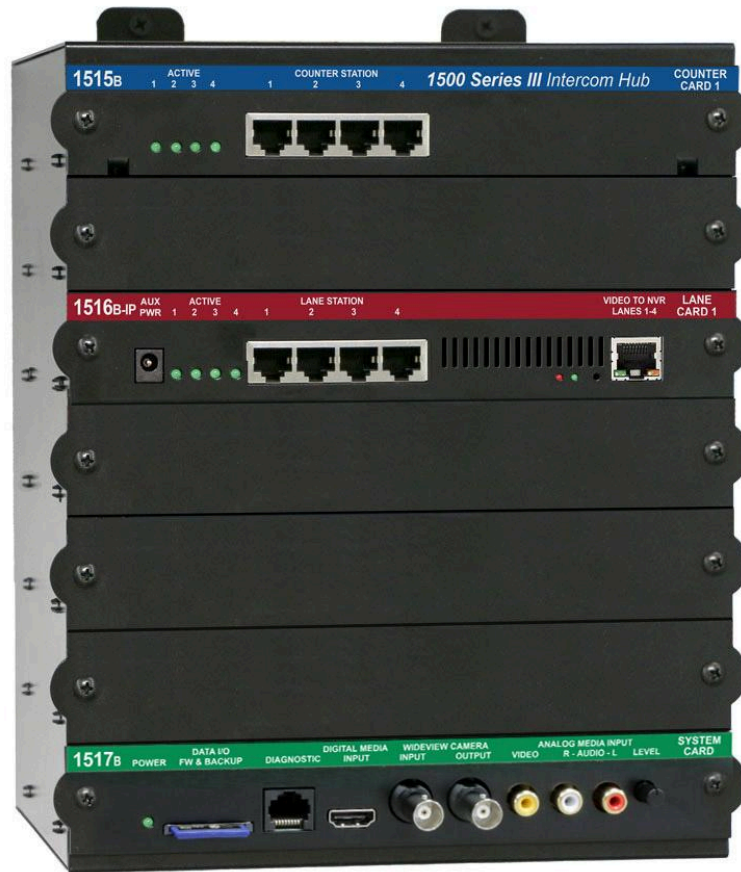


IP Streaming from Lane Cameras

Video Configuration Guide



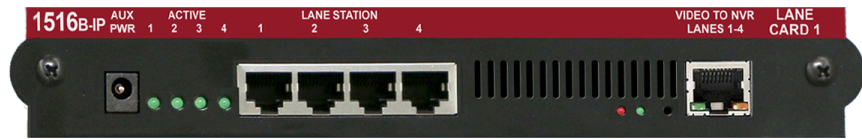
Model 1516B-IP Hub Card
for 1500 Series III Intercom Systems

Audio  Authority[®]

Innovative Electronic Design and Manufacturing Since 1976

Video Configuration Guide

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



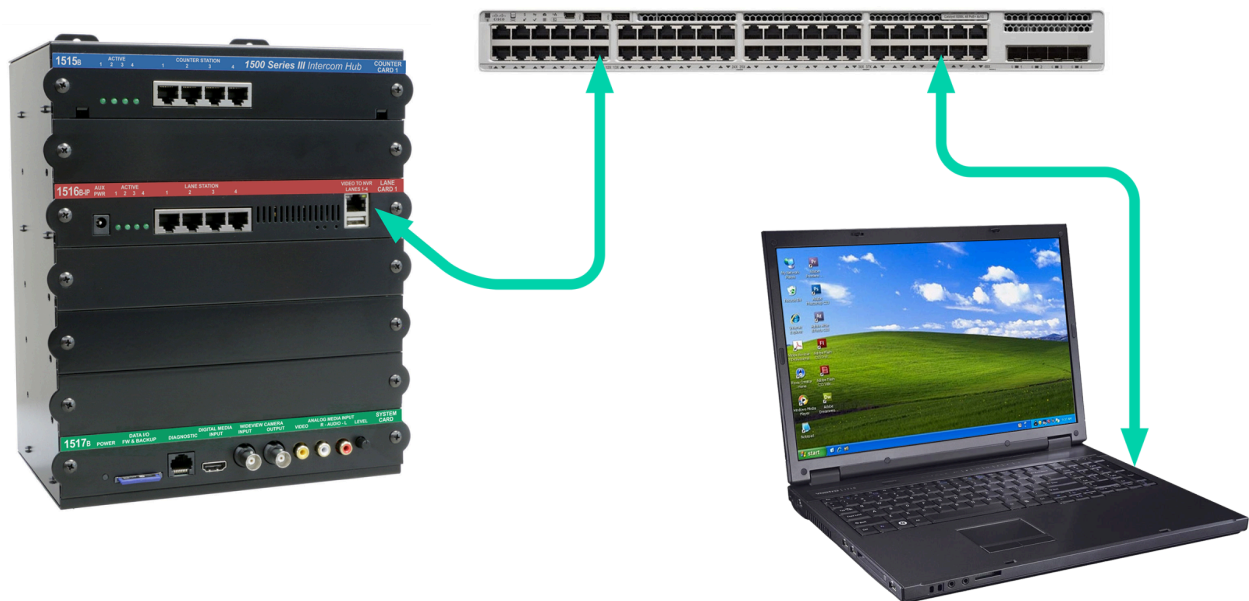
This document outlines the setup and configuration process for the 1516B-IP RTSP Video system. The web-based interface allows administrators to configure network settings, synchronize system time, and independently adjust the video feeds for cameras connected to each 1516B-IP card. All settings shown 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 192.168.0.254 and then go to 192.168.0.254 in a web browser to bring up the 1516B-IP interface.

Username: admin

Password: admin



Global Interface Navigation

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

Audio Authority®		INT1516B-IP RTSP Video Configuration	
System Settings		Camera 1	Camera 2
Camera 3		Camera 4	
Network Settings		RTSP Stream URLs:	
Select Network Mode: All Cameras On One IP Address		rtsp://192.168.0.77:8554/cam1 rtsp://192.168.0.77:8554/cam2 rtsp://192.168.0.77:8554/cam3 rtsp://192.168.0.77:8554/cam4	
Camera 1 (192.168.0.77)		Camera 2 (192.168.0.77)	
DHCP: Disabled (Use Static IP)		DHCP: Disabled (Use Static IP)	
Address: 192 . 168 . 0 . 77		Address: 192 . 168 . 1 . 101	
Netmask: 255 . 255 . 255 . 0		Address: 192 . 168 . 1 . 102	
Gateway: 192 . 168 . 0 . 3		MAC: D8:3A:DD:A1:3C:64	
DNS 1: 8 . 8 . 8 . 8		MAC: Use Default MAC Address	
DNS 2: 1 . 1 . 1 . 1		MAC: Use Default MAC Address	
Camera 3 (192.168.0.77)		Camera 4 (192.168.0.77)	
DHCP: Disabled (Use Static IP)		DHCP: Disabled (Use Static IP)	
Address: 192 . 168 . 1 . 102		Address: 192 . 168 . 0 . 103	
MAC: D8:3A:DD:A1:3C:65		MAC: Use Default MAC Address	
MAC: Use Default MAC Address		MAC: Use Default MAC Address	
Time Settings			
System Time: Fri Sep 5 13:42:38 EDT 2025			
Use NTP Server: ☐			
Set Date & Time: mm / dd / yyyy , -- : -- : -- --		Timezone: America/New_York GMT-05:00	
Use Browser Time			
Cancel Changes		Apply Settings & Reboot	
Audio Authority® Corporation, 2048 Mercer Road, Lexington, KY 40511-1071 USA		CPU: 68.8°C GPU: 67.0°C	
Toll Free USA and Canada: 800-322-8346 Phone: 859-233-4599			
Hours: M-F 8:30am to 5:00pm Eastern Time, Copyright ©1996-2025		Load: 4.00 3.14 2.74 1/293	

Audio Authority®		INT1516B-IP RTSP Video Configuration		
System Settings	Camera 1	Camera 2	Camera 3	Camera 4

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.

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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 Network Settings Select Network Mode: All Cameras On One IP Address ▾	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 RTSP Stream URLs: rtsp://192.168.0.77:8554/cam1 rtsp://192.168.0.77:8554/cam3 rtsp://192.168.0.77:8554/cam2 rtsp://192.168.0.77:8554/cam4	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 Camera 1 (192.168.0.77) DHCP: Disabled (Use Static IP) ▾	Dropdown to toggle between automatic IP assignment (DHCP) or a Static IP.
Address Address: 192 . 168 . 0 . 77	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 Netmask: 255 . 255 . 255 . 0 Gateway: 192 . 168 . 0 . 3 DNS 1: 8 . 8 . 8 . 8 DNS 2: 1 . 1 . 1 . 1	Standard network fields to manually define the device's location on the network (configured globally via Camera 1).
MAC / Use Default MAC Address MAC: D8:3A:DD:A1:3C:63 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 Time Settings System Time: Fri Sep 5 13:42:38 EDT 2025	Displays the currently set date and time on the hardware.
Use NTP Server 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 Set Date & Time: mm / dd / yyyy , -- : -- : -- --	A manual entry field and calendar picker to set the system time by hand.
Use Browser Time 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 Timezone: America/New_York GMT-05:00	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.

Audio Authority®

INT1516B-IP RTSP Video Configuration

System Settings	Camera 1	Camera 2	Camera 3	Camera 4
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Camera Enabled

☒

Reset to Defaults

Camera Label

Lane 05

Apply

Time Location

Bottom Left

▼

Label Location

Bottom Right

▼

Brightness

0

-1280127

Contrast

128

0128255

Saturation

128

0128255

Hue

0

-1280127

Backlight Compensation

0

0128255

Click to View Live Video

14:43:13 2025-09-05

Lane 05

Audio Authority® Corporation, 2048 Mercer Road, Lexington, KY 40511-1071 USA
Toll Free USA and Canada: 800-322-8346 Phone: 859-233-4599
Hours: M-F 8:30am to 5:00pm Eastern Time, Copyright ©1996-2025

CPU: 70.0°C GPU: 69.7°C

Load: 4.30 3.22 2.82 3/293

Basic Camera Settings

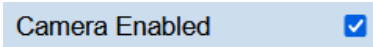
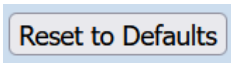
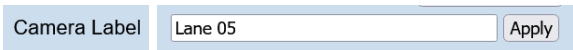
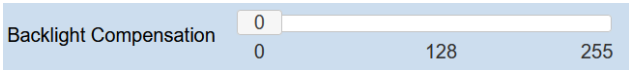
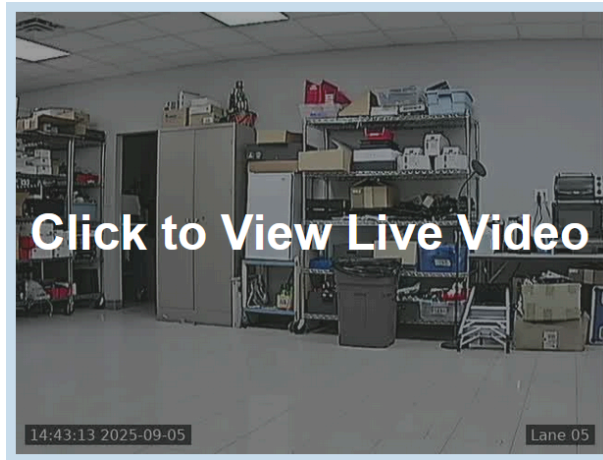
Setting	Function & Usage
Camera Enabled  The image shows a blue rectangular button with the text "Camera Enabled" in white and a small blue square with a white checkmark to its right.	A toggle box to turn the specific camera's video feed on or off.
Reset to Defaults  The image shows a light blue rectangular button with rounded corners and the text "Reset to Defaults" in dark blue.	Reverts all image adjustments (brightness, contrast, etc.) and text overlays for this specific camera back to factory settings.
Camera Label  The image shows a light blue rectangular button with the text "Camera Label" in dark blue, followed by a text input field containing "Lane 05" and a small "Apply" button to its right.	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  The image shows a light blue rectangular button with the text "Time Location" in dark blue, followed by a dropdown menu showing "Bottom Left" and a downward arrow.	A dropdown menu to determine where the date/time stamp appears on the video feed (e.g., Bottom Left).
Label Location  The image shows a light blue rectangular button with the text "Label Location" in dark blue, followed by a dropdown menu showing "Bottom Right" and a downward arrow.	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  The UI for the Brightness slider shows a horizontal bar with a white slider knob positioned at 0. The range is from -128 to 127, with 0 in the middle.	-128 to 127	Adjusts the overall lightness or darkness of the image.
Contrast  The UI for the Contrast slider shows a horizontal bar with a white slider knob positioned at 128. The range is from 0 to 255, with 128 in the middle.	0 to 255	Adjusts the difference between the lightest and darkest parts of the image.
Saturation  The UI for the Saturation slider shows a horizontal bar with a white slider knob positioned at 128. The range is from 0 to 255, with 128 in the middle.	0 to 255	Controls the intensity of the colors in the feed.
Hue  The UI for the Hue slider shows a horizontal bar with a white slider knob positioned at 0. The range is from -128 to 127, with 0 in the middle.	-128 to 127	Shifts the color spectrum of the image.
Backlight Compensation  The UI for the Backlight Compensation slider shows a horizontal bar with a white slider knob positioned at 0. The range is from 0 to 255, with 128 in the middle.	0 to 255	Helps clarify subjects that are in front of a bright light source by adjusting the exposure.

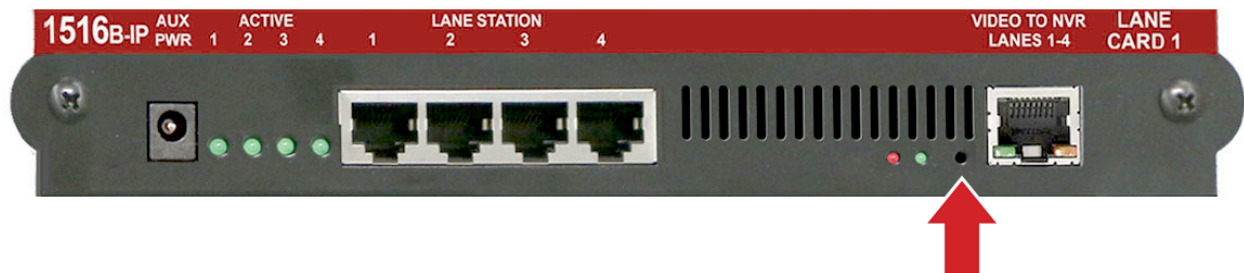
Live Preview Window



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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