Special Cube Setup: Wi-Fi + Audio

Wi-Fi Connectivity

Hardwiring a surveillance camera is always the best solution. Since it is not always possible, we present this guide to wireless surveillance installations.

Based on our testing, we recommend no more than 2 cameras per dedicated access point, and there must be no more than 2 streaming devices on the dedicated access point. If you opt for 1080p resolution, drop your bit rate to 2.5Mbps and use 15 fps or lower. For 720p resolution, drop your bit rate to 1.5Mbps and use 15 fps or lower.

Your Luma Wi-Fi Cube camera connection must be at 80% signal strength with -67dBm minimum to have reliable streaming video.

Please use the table below as a guide to setup your Luma Wi-Fi Cube camera on a Wi-Fi network.

Image	FPS	Minimum Wi-Fi Performance		Expected Result
		Araknis Access Point Connected Device Signal Strength	Luma 300 Cube Signal Strength	
1080p	30	-30 dBm to -50 dBm	100% – 96%	Okay
1080p	30	-51 dBm to -70 dBm	95% – 85%	Okay
1080p	30	-71 dBm or worse	< 80%	Poor
1080p	20	-30 dBm to -50 dBm	100% – 96%	Good
1080p	20	-51 dBm to -70 dBm	95% – 85%	Good
1080p	20	-71 dBm or worse	< 80%	Poor
720p	20	-30 dBm to -50 dBm	100% – 96%	Good
720p	20	-51 dBm to -70 dBm	95% – 85%	Good
720p	20	-71 dBm or worse	< 80%	Poor
720p	30	-30 dBm to -50 dBm	100% – 96%	Good
720p	30	-51 dBm to -70 dBm	95% – 85%	Good
720p	30	-71 dBm or worse	< 80%	Poor

Disclaimer

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Audio Guide

Once your Wi-Fi cube is activated and on the network, you can set up audio with the built-in microphone.
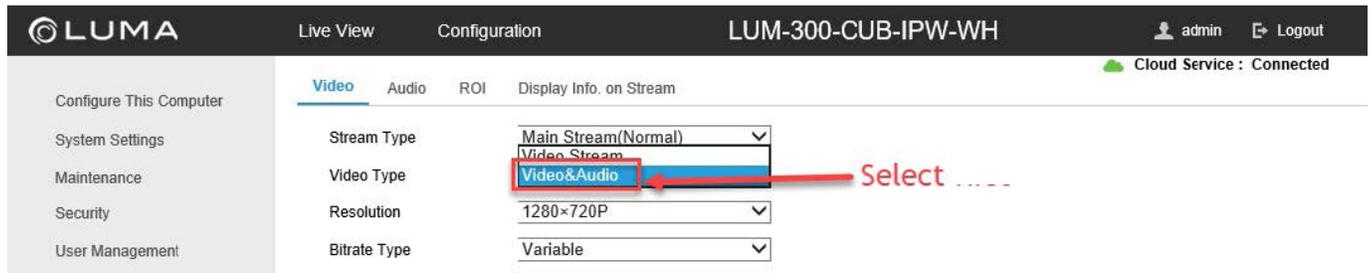
The audio feature is used for general audible activity levels. It is not designed to capture specific conversations with complete clarity. Audio clarity depends on the distance, volume, ambient noise, and audio configurations.

Setting Up Audio

Log in to the camera interface and click on the **Configuration** icon.

Navigate to the **Video/Audio**. It opens at the Video tab.

Under the **Video Type** dropdown, select *Video&Audio*. Click **Save**. This saves the audio feed for the main stream.
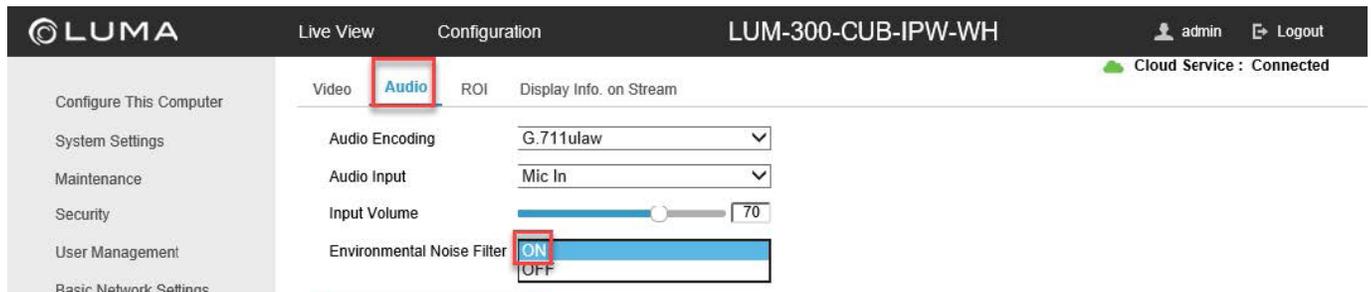

Under the **Stream Type** dropdown, select *Sub Stream*.

Under the **Video Type** dropdown, select *Video&Audio*. Click **Save**. This saves the audio feed for the sub stream.

Making Adjustments

If the camera is installed in a noisy area, the Environmental Noise Filter may improve sound quality. Navigate to **Video/Audio** and click on the **Audio** tab. Use the dropdown menu to activate the Environmental Noise Filter.

If the audio feed is too quiet or too loud, adjust the input volume. Navigate to **Video/Audio** and click on the **Audio** tab. Use the Input Volume slider to adjust the feed.

Troubleshooting

Issue	Resolution
No audio from High or Medium quality stream in app.	Mainstream and Substream needs to be configured to Video & Audio. The default Stream Type out of the box is Video Stream, so it will need to be manually changed in the web interface via Internet Explorer.
Audio is choppy and cuts in and out intermittently.	This is a network/bandwidth related issue. Refer to the performance table on the previous page.
Experiencing loud ambient noise and can't hear voices or conversations.	If the environment experiences a lot of ambient noise, turning ON the Environmental Filter can reduce the noise and bring clarity to desired audio.
Audio is too quiet and hard to hear.	You can adjust the Input Volume in the web interface. The default value is 70. You can raise or lower, depending on your audio need and environment.

Luma App One-Way Audio

Your Luma app can transmit the audio feed from a 300-series cube camera. Note that this is one-way communication; you cannot speak through the app.

Launch the Luma app, and connect to the cube camera live view.

In the live view screen, swipe the options bar (below the video stream) to the left to locate the speaker icon.

Tap the speaker icon to launch the audio. It turns blue when activated.