

RTSP Streaming with VLC

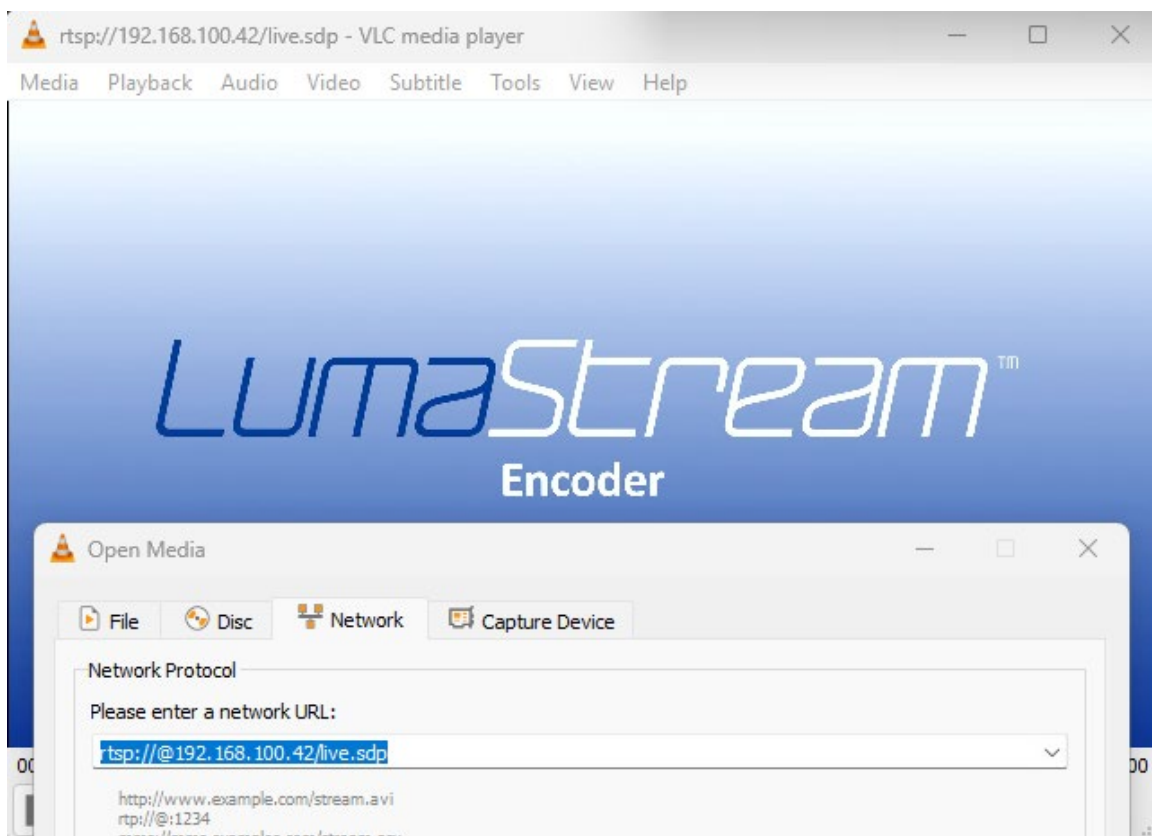
Overview

LumaStream supports RTSP streaming, allowing videos to be viewed directly in VLC Media Player without requiring a decoder. RTSP is ideal for testing, monitoring, recording, or integrating with third-party applications.

Opening an RTSP Stream in VLC

1. Open VLC Media Player.
2. Select Media > Open Network Stream.
3. Enter:
`rtsp://<Encoder-IP>/live.sdp`
Example: `rtsp://192.168.100.42/live.sdp`
4. Click Play.

The .sdp file describes the audio and video session and should be used when connecting with VLC.



Common Issues

- Windows Firewall
 - Ensure VLC is allowed through Windows Firewall.
 - Verify TCP port 554 and associated UDP traffic are not blocked.
- Antivirus / Endpoint Protection
 - Security software such as Windows Defender, CrowdStrike, Sentinel One, McAfee, or Symantec may inspect or block RTSP/RTP traffic.
 - If permitted by your IT policy, temporarily disable network inspection for testing.
- Wi-Fi Networks
 - RTSP playback over Wi-Fi may fail if the wireless infrastructure does not convert multicast traffic to unicast.
 - Enable features such as Multicast-to-Unicast, Directed Multicast, Multicast Enhancement, or similar vendor-specific options.
 - Wired Ethernet is recommended for troubleshooting and best performance.
- Managed Switches
 - Enable IGMP Snooping.
 - Ensure an IGMP Querier is present.
 - Verify multicast routing where required and that ACLs are not blocking multicast traffic.

Encoder Verification

Confirm:

- The encoder responds to ping.
- The web interface is accessible.
- A valid HDMI source is connected.

VLC Tips

- Use the latest version of VLC.
- Restart VLC after encoder configuration changes.
- Disable unused VPN or virtual network adapters during testing.
- Test using a wired connection.

Troubleshooting Checklist

- ✓ Encoder reachable by ping
- ✓ Correct RTSP URL (rtsp://IP/live.sdp)
- ✓ HDMI source connected
- ✓ VLC allowed through Windows Firewall
- ✓ Antivirus does not block traffic
- ✓ Wired Ethernet connection
- ✓ IGMP Snooping enabled
- ✓ IGMP Querier present
- ✓ Wi-Fi multicast-to-unicast enabled (if using Wi-Fi)

Best Practice

Connect both the LumaStream encoder and the VLC PC to the same wired Ethernet network with proper multicast support. Most RTSP playback issues are caused by firewall restrictions, endpoint security software, or incorrect multicast handling on wireless networks.

HDCP Considerations

LumaStream will not stream RTSP content that is HDCP protected. If the HDMI source is transmitting HDCP-protected content, the RTSP stream will not be available. Configure the encoder's HDCP Announcement setting to 'None' so compatible source devices do not enable HDCP.

