

How to get playback streaming using RTSP

Retrieving video stream from an NVR

URL – ***rtsp://account:password@ip:port/chanel/Main stream or sub stream?time=[x,x]***

Example – ***rtsp://admin:aaa111@192.168.2.191:554/1/1?time=[1757930100,1757930155]***

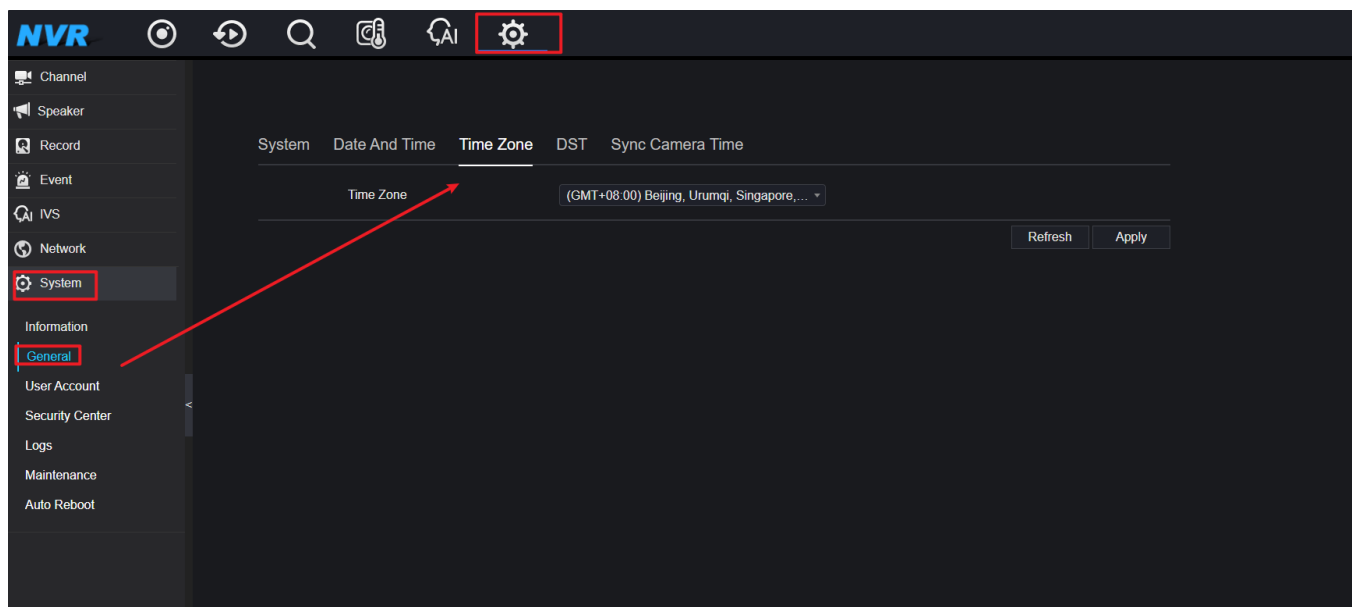
Notes:

- The time field at the end of the full URL should be written as a Unix timestamp, not the time format we are accustomed to using in everyday life. To convert a normal date/time format to a Unix timestamp, you must utilize a Unix timestamp converter tool.
- Make sure that the time zone on the NVR device matches the local time zone in your region. The time displayed on the NVR will be your local time, making future operations easier.
- The Unix timestamp conversion tool should also match the NVR's time zone. This guarantees that the converted timestamp matches the recording period in the NVR.

Example of the Unix Timestamp Converter:

- <https://www.unixtimestamp.com/>
- <https://www.epochconverter.com/>
- <https://www.site24x7.com/tools/time-stamp-converter.html>
- <https://www.liquidweb.com/tools/unix-timestamp-converter/>

To check the NVR's time zone, go to **Setting > System > General > Time Zone**



Retrieving video stream from an IP Camera

URL – ***rtsp://admin:admin@ip:port/sn1/playback/recording_config_camx?starttime=xxxx-xx-xxTxx:xx:xxZ&endtime=xxxx-xx-xxTxx:xx:xxZ***

Example –

rtsp://admin:admin@192.168.2.99:554/sn1/playback/recording_config_cam1?starttime=2022-09-18T04:00:00Z&endtime=2022-09-18T12:00:00Z

Notes:

- Make sure that the time zone of the IP camera matches the local time zone in your region. This is a prerequisite—only when the time zone is correctly set will the device's recorded time match your local time.
- The RTSP streaming URL's start time and end time parameters are in UTC time (the trailing Z denotes the zero-time zone). When you need to specify a time range for pulling video streams, please convert your local time to UTC time using the offset between local and UTC, and then enter the converted time in the URL.

Example of time conversion:

Actual Start Time – 2026-04-28 10:00:00 Time zone: UTC+8

Actual End Time – 2026-04-28 11:00:00 Time zone: UTC+8

Converted to UTC Start Time – 2026-04-28 02:00:00Z

Converted to UTC End Time – 2026-04-28 03:00:00Z

To check the IP camera's time zone, go to **Setting > System > Date and Time**

