

RTSP Video & JPEG Image

RTSP (Real Time Streaming Protocol) is a standardized video streaming protocol. IP cameras use it to provide the video to the NVR. NVRs and DVRs use it to provide video to the web client, app, etc.

The purpose of RTSP is to be compliant with Onvif. RTSP sometimes is directly used by third party NVRs or VMSs (Video Management System).

RTSP Ports

The industry standard port for RSTP is 554. This caused problems on some iOS devices, so the NVRs/DVRs switched to port 8554.

Cameras: **554**
NVR/DVR: **8554**

Note: Custom ports can be used if needed.

A Note on Onvif

Onvif is an industry standard that allows IPCs and NVRs from different manufacturers to work together. The default web and server port is 80; the default RTSP port is 554.

LTS IP cameras use:

Onvif Version 2.2 Profile S

RTSP Video

rtsp://username:password@<address>:<port>/streaming/channels/<camera#><stream>
(Mainstream = 01 | Substream = 02)

Example 1: NVR/DVR Mainstream – Channel 16 (IP Address)

rtsp://admin:12345@192.0.0.64:8554/streaming/channels/1601 (Note the 8554 port)

Example 2: NVR/DVR Substream – Channel 3 (Domain Address)

rtsp://admin:12345@nvr.dvrlists.com:8554/streaming/channels/302

Example 3: IP Camera Mainstream / Substream (IP Address)

rtsp://admin:12345@192.0.0.64:554/streaming/channels/101 (Note the 554 port)
rtsp://admin:12345@192.0.0.64:554/streaming/channels/102

Note: *The RTSP feed cannot be understood by a web browser.* A media player plugin can be used, but this requires HTML coding and is not supported.

Embedding video into a webpage is not supported. IPCs support six concurrent logins. Some customers have had success with [mirroring services](#) that repeat the RTSP feed.

JPEG Image

http://username:password@<address>:<web-port>/streaming/channel/1/picture (IPC only)

Example 1: IP Camera JPEG Image (IP Address)

http://admin:12345@192.0.0.64/streaming/channels/1/picture (HTTP port defaults to 80)
http://192.0.0.64/streaming/channels/1/picture (browser requests credentials)