



**Protocols for Antrica Video Servers and IP  
Cameras  
Using VLC or similar RTSP decoder**

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## 1. Overview

This document describes how to access Antrica video server or IP camera for the following purposes.

- (1) Get media stream from the server
- (2) Get events from the server and set the servers ports such as relay
- (3) Configure the server's setting
- (4) Control PTZ

(1) is covered in Section 2, and (2)~(4) are covered in Section 3.

This document is for the client application developers who don't want to use the client SDK by Antrica or VLC player as a decoder.

## 2. Media Streaming

### 2.1 Protocol

Audio and video streaming from server to client conform to RFC standards.

Streaming and direction	Protocol	Remarks
Server -> Client - Audio and video	- RTP(RFC1889)/RTSP(RFC2326) - RTP over RTSP(TCP)	Video: H.264 Audio: G.711 u-law
Client -> Server - Audio	- Non standard* (Refer section 2.8 SendAudio of "Antrica HTTP API" document)	Audio: G.711 u-law

RTSP URL

Single channel single stream video server or IP camera

Stream	URL(Address)
Channel #1 primary stream	rtsp://<IP address>/

Multi-channel / Dual stream video server or IP camera

Stream	URL(Address)
Channel #1 primary stream	rtsp://<IP address>/video1
Channel #1 secondary stream	rtsp://<IP address>/video1s
Channel #2 primary stream	rtsp://<IP address>/video2
Channel #2 secondary stream	rtsp://<IP address>/video2s

### Additional remarks

1. RTSP over HTTP tunneling will be supported soon.

### **2.2 Conformance Test**

It has been tested with VLC Player(v0.8.6). Since VLC Player doesn't support decoding of interlaced mode(352x480 and 720x480), it is necessary to set Encoding mode of server/camera to 'Frame' mode. VLC shows broken video if Encoding mode is set to 'Field' mode.

### **2.3 Operational Characteristics**

Server disconnects RTSP connection when a setting which affects video encoding is changed

- Resolution, I-frame interval etc.

## **3. Events, Control and Configuration**

The protocol for getting events from server, control the server and configure the server follows the scheme called 'HTTP API' which is widely used in the industry.

Please refer to the following document for the details of HTTP API.

- HTTP API  
*Antrica HTTP API for Video Server and IP Camera*
- Parameters for HTTP API  
*Configuration Parameters (ANT-XXXX series)*