

# OPCON STREAM INS and OUTS

UHD – HEVC Outbound Video Stream

[Command-01]

Stereo – AAC Outbound Sound Stream

[Command-02]

**OPCON-01**  
[CENTOS 6.X]  
[FFMPEG 3.4.1]  
[NVENC 8.0.X]  
[NO-CUDA]  
[DRIVER 384.111]

1080p  
Replay Video  
[Local Disk]  
[Command-04]

1080p  
IP Camera-01  
[Network]  
[Command-03]

1080p  
IP Camera-02  
[Network]  
[Command-03]

720p  
RAW Video-01  
[Network]  
[Command-05]

720p  
RAW Video-02  
[Network]  
[Command-05]

## **OPCON-02**

[CENTOS 6.X]

[FFMPEG 3.4.1]

[NVENC 8.0.X]

[NO-CUDA]

[DRIVER 384.111]

**UHD**

**Live Video Record**

**[Network]**

**[Command-06]**

**UHD**

**Live Video Play**

**[Network]**

**[Command-07]**

**AAC - PULSE**

**Live Sound Play**

**[Network]**

**[Command-08]**

**[Command-01] - Screen Stream – [OUT-bound]**

```
ffmpeg -f x11grab -framerate 25 -video_size uhd2160 -i :0.0 -c:video hevc_nvenc -preset fast -pix_fmt bgr0 -b:v 3M -g 25 -an -f rtp_mpegts rtp://225.0.5.20:6000
```

**[Command-02] - Line-In Stream - [OUT-bound]**

```
ffmpeg -f alsa -i hw:0,0 -c:audio aac -b:a 36K -f rtp_mpegts rtp://225.0.5.20:6002
```

**[Command-03] - 1080p Camera - [IN-bound]**

```
ffmpeg -v debug -buffer_size 500000 -c:v h264_cuid -i rtsp://10.0.5.249/video -pix_fmt yuv420p -f sdl "249"
```

```
ffmpeg -v debug -buffer_size 500000 -c:v h264_cuid -i rtsp://10.0.5.250/video -pix_fmt yuv420p -f sdl "250"
```

**[Command-04] - 720p recorded video**

```
ffplay -v debug -vcodec hevc_cuid Videos/the.expanse.s02e11.720p.hdtv.hevc.x265.rmteam.mkv
```

**[Command-05] - 720p RAW Video - [IN-bound]**

```
ffmpeg -v debug -re -probesize 32 -buffer_size 500000 -protocol_whitelist file,rtp,udp -strict -2 -i test.106.sdp -pix_fmt yuv420p -f sdl "106"
```

```
ffmpeg -v debug -re -probesize 32 -buffer_size 500000 -protocol_whitelist file,rtp,udp -strict -2 -i test.107.sdp -pix_fmt yuv420p -f sdl "107"
```

**[Command-06] - OPCON Live Stream Remote Record - 20 minute - Owerwrite file - Copy Video Stream - No Audio Stream**

```
ffmpeg -y -t 1200 -buffer_size 500000 -i rtp://225.0.5.20:6000 -vcodec copy -an opcon-10.mkv
```

**[Command-07] - OPCON Live Stream Remote Play - [OPCON-OPCON] - [IN-bound]**

```
ffmpeg -v debug -buffer_size 500000 -c:v hevc_cuid -i rtp://225.0.5.20:6000 -pix_fmt yuv420p -window_fullscreen 1 -f sdl "opcon-10"
```

**[Command-08] - OPCON Live Sound Stream Remote Play – [OPCON-OPCON] - [IN-bound]**

```
ffmpeg -v debug -buffer_size 5000 -i rtp://225.0.5.20:6002 -buffer_size 5000 -f pulse default
```

# OPCON – Advantech Live Play

LSDCU [ADVANTECH]  
[CENTOS 7.X]  
[VLC 3.0.X]  
[FFMPEG 4.1]

**UHD**  
**Live Video Play**  
**[Network]**  
**[Command-09]**

**AAC - PULSE**  
**Live Sound Play**  
**[Network]**  
**[Command-10]**

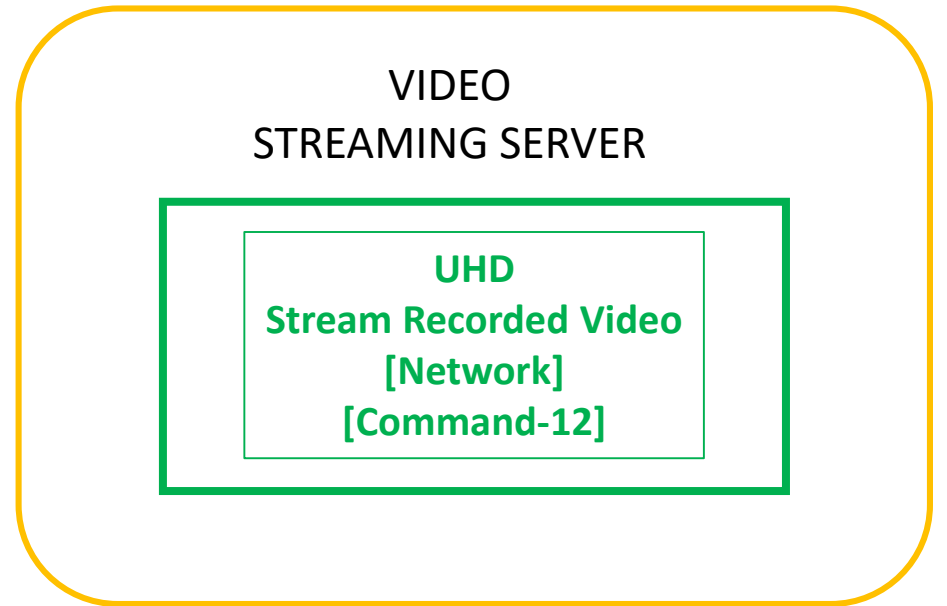
**[Command-09] – LSDCU Live Video Stream Remote Play - OPCON-Advantech - [IN-bound]**

```
ffmpeg -v debug -buffer_size 500000 -hwaccel vaapi -i rtp://225.0.5.20:6000 -pix_fmt yuv420p -window_fullscreen 1 -f sdl "opcon-10"
```

**[Command-10] – LSDCU Live Sound Stream Remote Play - OPCON-Advantech - [IN-bound]**

```
ffmpeg -v debug -buffer_size 5000 -i rtp://225.0.5.20:6002 -buffer_size 5000 -f pulse default
```

# EXTERNAL Live Record & Offline Stream



**[Command-11] – UHD Live Video Record**

```
ffmpeg -y -buffer_size 500000 -thread_queue_size 256 -i rtp://225.0.5.20:6000 -buffer_size 5000 -thread_queue_size 256 -  
i rtp://225.0.5.20:6002 -map 0:0 -map 1:0 -c:v copy -c:a copy opcon-10.mkv
```

**[Command-12] – UHD Stream Recorded Video**

Work-In-Progress

# VIDEO Stream & Replay & Record

