

FFmpeg

, FFmpeg RTSP- :

1. :

a. .

.

. :

```
netstat -ano | findstr :<>
```

10000.

b. **1 channel device** IP- :

```
listenrtsp://<IP- C>:<>
```

IP-адрес	Порт	Производитель
listenrtsp://10.0.11.23:5	80	FFMPEG
Тип устройства	Модель	
IP-устройство	1 channel device	

RTSP- .

```
listenrtsp://<IP- C>:<>/<RTSP->
```

:

```
listenrtsp://127.0.0.1:1554/live1.sdp
```

127.0.0.1 – IP- ;
1554 – RTSP-, . 1;
live1.sdp – RTSP-.

2. :

- FFmpeg .
- ffmpeg.exe.
- :

```
ffmpeg.exe -f gdigrab -video_size 640x480 -i desktop -c:v <> -f rtsp -muxdelay 0.1  
"listenrtsp://<IP- C>:<>/<RTSP->"
```

- mpeg2video, mpeg4, h264, hevc;
- **-video_size 640x480 -muxdelay 0.1** .
- ;

-draw_mouse <int>	. 0 1, 1
-show_region <int>	. 0 1, 1
-framerate <video_rate>	()

-video_size <image_size>	0
-muxdelay <int>	- 0
-offset_x <int>	0. 0
-offset_y <int>	Y 0. 0



- , offset_x, .
- , offset_y, .

- , , :

```
ffmpeg.exe -f gdigrab -i desktop -c:v <> -f rtsp -muxdelay 0.1 "listenrtsp://<IP- C>:<>/<RTSP->"
```

-video_size, .

- , :

```
ffmpeg.exe -f gdigrab -offset_x 0 -offset_y 0 -video_size 1920x1080 -i desktop -c:v <> -f rtsp -muxdelay 0.1 "listenrtsp://<IP- C>:<>/<RTSP->"
```

-pix_fmt ,. :

```
-pix_fmt yuv420p
```

:

```
ffmpeg.exe -f gdigrab -offset_x 1920 -offset_y 0 -video_size 1920x1080 -i desktop -c:v <> -f rtsp -muxdelay 0.1 "listenrtsp://<IP- C>:<>/<RTSP->"
```

-offset_x 1920 1920, .
, -offset_x -offset_x 3840,. 3840, .



-offset_x . , .

- , :

```
ffmpeg.exe -f gdigrab -offset_x 0 -offset_y 0 -video_size 3840x1080 -i desktop -c:v <> -f rtsp -muxdelay 0.1 "listenrtsp://<IP- C>:<>/<RTSP->"
```

-video_size 3840x1080 .
:

```
ffmpeg.exe -f gdigrab -offset_x 1920 -offset_y 0 -video_size 3840x1080 -i desktop -c:v <> -f rtsp -muxdelay 0.1 "listenrtsp://<IP- C>:<>/<RTSP->"
```

```
-offset_x 1920 ;  
-video_size 3840x1080 .
```

- NVIDIA FFmpeg.
:

```
ffmpeg.exe -f gdigrab -i desktop -c:v <> -f rtsp -muxdelay 0.1 "listenrtsp://<IP- C>:<>/<RTSP->"
```

h264_nvenc (H264), hevc_nvenc (H265).



Intel h264_qsv hevc_qsv, AMD h264_amf hevc_amf.

, c NVENC h.264, 4096x4096 . , NVENC h.265, 8192x8192 .
, NVENC h.264 1920x1080 .