

# nanocosmos Live Video Encoder Mixer / Overlay

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## General Information

Live Video Encoder supports several enhancements to video source mixing and overlays.

Video mixing of 2 input video signals

Text and bitmap overlay

Region based capture

All functions can be used from within nanoStream plugin applications or by using DirectShow filter setups.

## Requirements:

- Nanocosmos Live Video Encoder Web Plugins
- Nanocosmos Video Mixer DirectShow Filter (for video mixing)
- Nanocosmos Text/Bitmap Overlay Filter (for text or image overlay)
- Video mixing and text/image overlay can be used independently.

## Usage of Video Mixer:

Select 2 video sources:

Usage for nanovid plugin: Set the VideoSource and VideoSource2 properties

Use for nanoEncoder.js: call SetVideoSource and SetVideoSource2

The parameters to the properties are the index numbers of the video capture device (0..n)

Select Video Mixing Mode: 0=off, 16+1=left/right, 16+2=left/right narrow, 16+7 ... picture-in-picture

## Usage of Text/Bitmap Overlay:

- Text / Bitmap Overlay: The text to overlay can either set directly to the text string or can be specified by the path to a file, containing the overlay text. The text within that file is then loaded by the overlay filter. For Bitmaps, the property contains the path to a bitmap file (.bmp, .jpg, .png).
- Set the TextOverlayText Property to the text or file name

- Set the VideoEffect Property to 16

### Setting the overlay position

Currently (Version 2.1) the overlay position for the plugin can be set by the Registry only.

#### Registry Key:

`HKCU\SOFTWARE\nanocosmos\nanoStream`

Key: "OverlayLeft"      Default Value: `VideoWidth*1/20`

Key: "OverlayTop"      Default Value: `VideoWidth*1/20`

Key: "OverlayBackColor"      Default Value: `0`

Key: "OverlayTextColor"      Default Value: `0x000099FF`

### Usage of Region Capture:

To capture a region of the input video, use the "CaptureRegion" configuration values or call the SetCaptureRegion Javascript Function.

#### Usage:

```
nanovideo.SetConfig("CaptureRegion","left,right,top,bottom")
```

#### Example:

```
nanovideo.SetConfig("CaptureRegion",100,420,50,290)
```

During Encoding/Streaming, the CaptureRegion may be changed to follow a region object on the screen. For simpler usage of moving the origin of the region, the SetRegion method may be used:

```
SetRegion(left, top)
```

See example implementation in nanoStream.html

### Further Information and Services

Further information and extended services are available upon request. Please contact us for further information.

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