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# User manual

(Stream2File)

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## Declaration

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## Chapter 1 Introduction

Happytime stream2file saves RTSP/RTMP/SRT(Secure Reliable Transport)/HTTP MJPEG stream data to file, it supports saving multiple RTSP/RTMP/SRT/http mjpeg streams to files at the same time. It supports H264, H265, MJPEG, MPEG4 video format, support G711A, G711U, G726, G722, AAC audio format.

It supports AVI,MP4 and TS file format, it also supports generating fragment MP4 files. Happytime stream2file saves RTSP/RTMP/SRT/HTTP MJPEG stream to file with simple configuration. Automatic calculation of frame rate, video resolution and other parameters. The generated file supports most media players, supports index lookup, and supports reverse playback.

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## Chapter 2 Configuration

If no configuration file is specified at startup, the default configuration file `stream2file.cfg` will be used.

### 2.1 Configuration Templates

```
<?xml version="1.0" encoding="utf-8"?>
<config>
  <log_enable>1</log_enable>
  <log_level>1</log_level>
  <stream2file>
    <url>rtsp://192.168.3.27/test.mp4</url>
    <user>admin</user>
    <pass>admin</pass>
    <savepath></savepath>
    <filefmt>mp4</filefmt>
    <framerate>0</framerate>
    <recordsize>0</recordsize>
    <recordtime>0</recordtime>
    <fragment>1</fragment>
    <fragment_duration>5000</fragment_duration>
  </stream2file>
</config>
```

### 2.2 Configuring Node Description

#### 2.2.1 System parameters

**<log\_enable>**

Whether enable the log function, 0-disable, 1-enable.

**<log\_level>**

The log level:

TRACE	0
DEBUG	1
INFO	2

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WARN	3
ERROR	4
FATAL	5

## 2.2.2 stream2file node

**<stream2file>** : it can configure multiple nodes

**<url>**

RTSP, RTMP, SRT or HTTP MJPEG stream address.

**<user>**

Login username.

**<pass>**

Login password.

**<savepath>**

File save path. the specified path must exist.

If not specified, files is saved in the current path.

**<filefmt>**

File format. AVI-avi file, MP4-mp4 file, TS-ts file.

**<framerate>**

Specify the video recording frame rate, if it is 0, it will be calculated automaticall.

**<recordsize>**

Maximum recording size, 0 means no limitation, unit is KB.

**<recordtime>**

Maximum recording time, 0 means no limitation, unit is second.

**<fragment>**

Output fragment MP4 file when file format is MP4.

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<fragment\_duration>

The duration of each fragment, in milliseconds.

**Note:** Windows platform, directory with \ split, linux platform directory with / split

**Note:** The file name will be generated in the following format:

ip\_year\_month\_day\_hour\_minute\_second.avi, The following example:

192.168.1.50\_2019\_4\_23\_16\_05.avi

**Note:** When the recording time reaches the configured <recordtime> size, or the recording size reaches the configured <recordsize> size, it will automatically switch to the new file recording.

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## Chapter 3 AVI file repair tool(AviFixer)

When the program is abnormally shut down or the device suddenly loses power, the written file does not update the necessary information, there will be mosaics when playing videos.

AviFixer tool is used to repair such files.

AviFixer is a command line tool with the following command format:

avifixer options <filename>

-h print this help

-r remove the input file

-o <filename> the fixed file save path



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## Chapter 4 Run Stream2file

The stream2file is a console application.

Windows: to run the stream2file, simply type "stream2file".

Linux: to run the stream2file, type "./start.sh", on linux platform, stream2file run as daemon by default.

**Note :** The demo version has the following limitations

Maximum support two simultaneous streams.