

## Verify MPEG

### Overview

This document will serve a quick guide to the operation of the VerifyMPEG program. VerifyMPEG is used to extract all of the embedded timestamps within a Kustom Signals MPEG file.

The Embedded timestamps are inserted sequentially as the MPEG is recorded (approximately 10-15 times per second). The MPEG cannot be re-authored without disturbing these timestamps.

The Verify MPEG program generates a file (Stamps.txt) that lists all of the timestamps as they are located within the MPEG file. The list includes:

- The actual embedded time stamp (Date/Time)
- The sequential count of each timestamp.
- The file offset of each timestamp
- The Delta (difference) between timestamps

- If the timestamp is not sequential, an error will be displayed.
- If the Delta is 0 or less, an error will be displayed.
- If there are no timestamps, an error will be displayed

As a general rule:

- The first timestamp should reflect the first On Screen Display Time.
- The last timestamp should reflect the last On Screen Display Time.

Date	Time	Count	Offset	Delta
20090902-17:15:10.606,		822,	38852353,	0.075
20090902-17:15:10.689,		823,	38889145,	0.083
20090902-17:15:10.771,		824,	38940245,	0.082
20090902-17:15:10.857,		825,	38991345,	0.086
20090902-17:15:10.939,		826,	39044489,	0.082
20090902-17:15:11.032,		827,	39083325,	0.093

#### Excerpt from a Stamps.txt File (sequential stamps)

20090902-17:15:13.307,		854,	40352649,	0.102
20090902-17:15:13.362,		855,	40420101,	0.055
20090902-17:15:13.458,		856,	40456893,	0.096
20090902-17:15:13.053,		857,	40510037,	-0.405, error
20090902-17:15:14.073,		858,	40544785,	1.020
20090902-17:15:14.094,		859,	40597929,	0.021
20090902-17:15:14.115,		860,	40634721,	0.021

#### Excerpt from a Stamps.txt File (non-sequential stamp)