

MediaArea – PreForma Kickoff  
November 4, 2014

# MediaInfo

- For 2014, averaging 4,000 downloads per day
- Mediainfo assesses audiovisual files and reports on technical metadata, enabling obsolescence monitoring, some compliance checking, digital inspection
- Mediainfo provides data in text, xml, pbcore, ebucore, and other data expressions

C:\Example.mxf

Container and general information

MXF (OP-1a) (XDCAM HD422): 1.89 GiB, 4mn 52s	Overall bit rate: 55.5 Mbps
1 video stream: MPEG Video	Encoded date: 2012-10-29 19:28:07.712
4 audio streams: PCM / PCM / PCM / PCM	Writing application: Telestream FlipFactory 1.0.0.0
2 text streams: EIA-608 / EIA-708	Writing library: Telestream FlipFactory 1.0.0.0
2: MXF TC / SMPTE TC	

First video stream

50.0 Mbps, 1280\*720 (16:9), at 59.940 fps, MP

First audio stream

1 152 Kbps, 48.0 KHz, 24 bits, 1 channel, PCM

First text stream

EIA-608 (Ancillary data / CDP)

Note : for more information ab

/Users/mymac/Movies/Example.mxf

General

MXF (OP-1a) (XDCAM HD422): 1.89 GiB, 4mn 52s	Overall bit
1 Video stream: MPEG Video	Encoded d
4 Audio streams: PCM / PCM / PCM / PCM	Writing app
2 Text streams: EIA-608 / EIA-708	Writing lib

Streams

**Video:** 50.0 Mbps, 1280\*720 (16:9), at 59.940 fps, MPEG (BVOP) (XDCAM HD422)

**Audio #1:** 1 152 Kbps, 48.0 KHz, 24 bits, 1 channel, PCM (L

**Audio #2:** 1 152 Kbps, 48.0 KHz, 24 bits, 1 channel, PCM (L

**Audio #3:** 1 152 Kbps, 48.0 KHz, 24 bits, 1 channel, PCM (L

**Audio #4:** 1 152 Kbps, 48.0 KHz, 24 bits, 1 channel, PCM (L

MediaInfo - C:\Example.mxf

File View Options Debug Help Language

**General**

Complete name : C:\Example.mxf  
 Format : MXF  
 Commercial name : XDCAM HD422  
 Format profile : OP-1a  
 Format settings : Closed / Complete  
 File size : 1.89 GiB  
 Duration : 4mn 52s  
 Overall bit rate : 55.5 Mbps  
 Encoded date : 2012-10-29 19:28:07.712  
 Writing application : Telestream FlipFactory 1.0.0.0  
 Writing library : Telestream FlipFactory 1.0.0.0

**Video**

ID : 768  
 Format : MPEG Video  
 Commercial name : XDCAM HD422  
 Format version : Version 2  
 Format profile : 4:2:2@High  
 Format settings, BVOP : Yes  
 Format settings, Matrix : Default  
 Format settings, GOP : M=3, N=9  
 Format\_Settings\_Wrapping : Frame  
 Duration : 4mn 52s  
 Bit rate : 50.0 Mbps  
 Width : 1 280 pixels  
 Height : 720 pixels  
 Display aspect ratio : 16:9  
 Frame rate : 59.940 fps  
 Color space : YUV  
 Chroma subsampling : 4:2:2  
 Bit depth : 8 bits  
 Scan type : Progressive  
 Compression mode : Lossy  
 Bits/(Pixel\*Frame) : 0.905  
 Time code of first frame : 00:00:00  
 Time code source : Group of pictures header  
 Stream size : 1.70 GiB (90%)

**Audio #1**

ID : 1024  
 Format : PCM  
 Format settings, Endianness : Little  
 Format\_Settings\_Wrapping : Frame (AFS)  
 Duration : 4mn 52s  
 Bit rate mode : Constant  
 Bit rate : 1 536 kb/s  
 Channel(s) : 1  
 Sampling rate : 48 000 Hz  
 Bit depth : 24 bits

MediaInfo - C:\Example.mxf

File View Options Debug Help Language

C:\Example.mxf

**General**

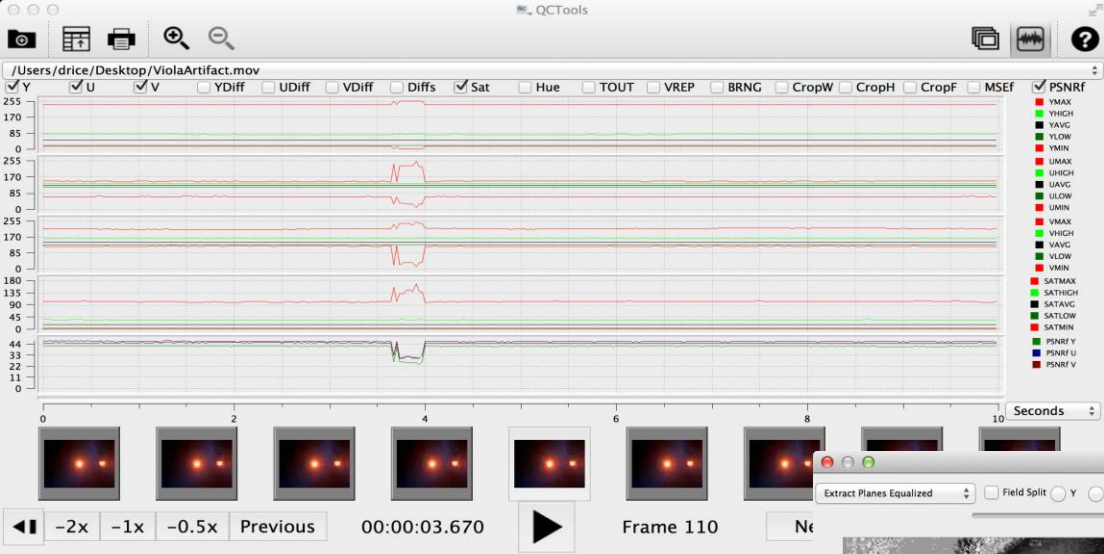
... Complete name: C:\Example.mxf  
 ... Format: MXF  
 ... Commercial name: XDCAM HD422  
 ... Format profile: OP-1a  
 ... Format settings: Closed / Complete  
 ... File size: 1.89 GiB  
 ... Duration: 4mn 52s  
 ... Overall bit rate: 55.5 Mbps  
 ... Encoded date: 2012-10-29 19:28:07.712  
 ... Writing application: Telestream FlipFactory 1.0.0.0  
 ... Writing library: Telestream FlipFactory 1.0.0.0

**Video**

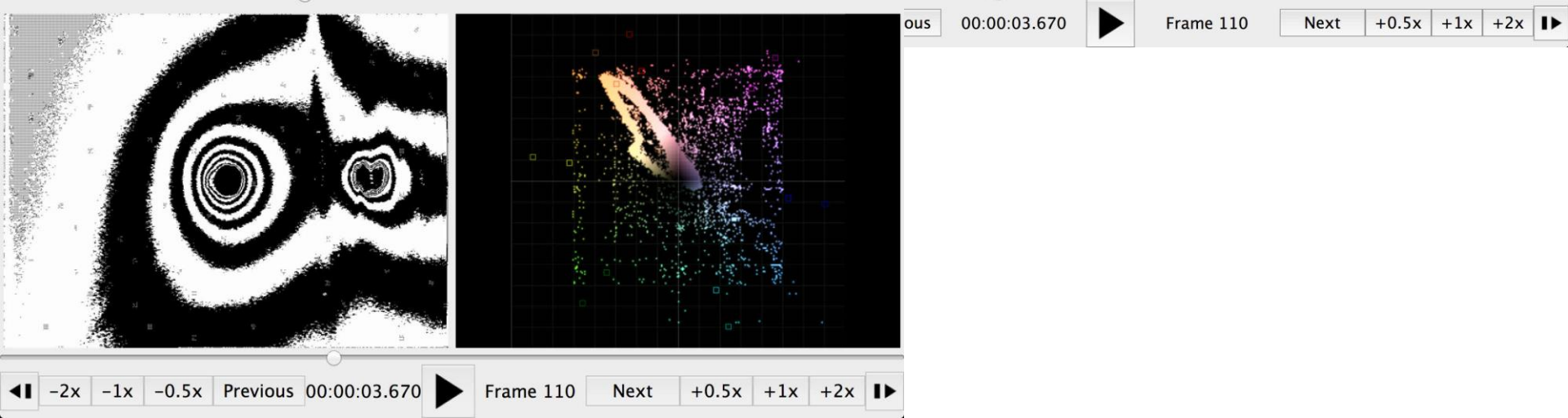
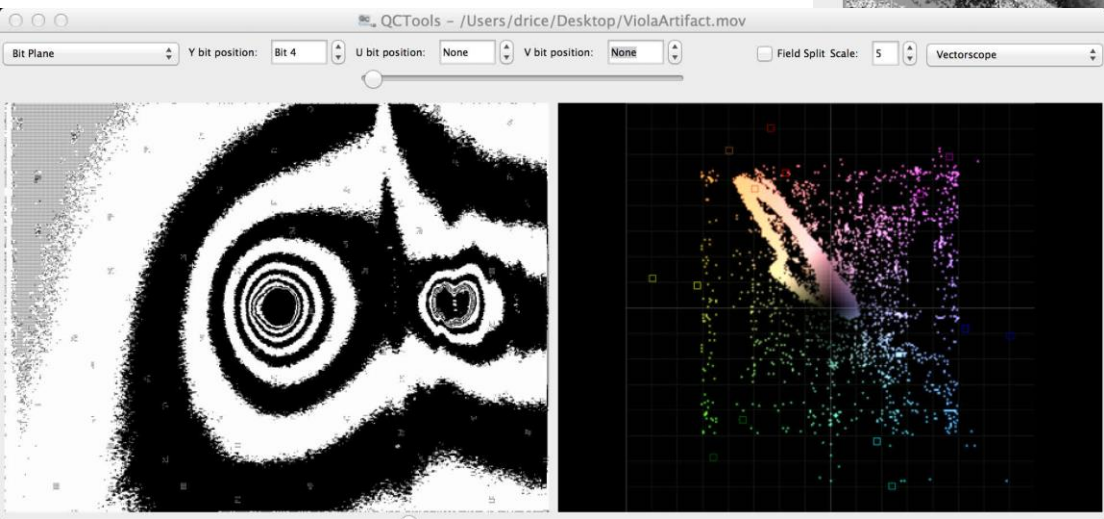
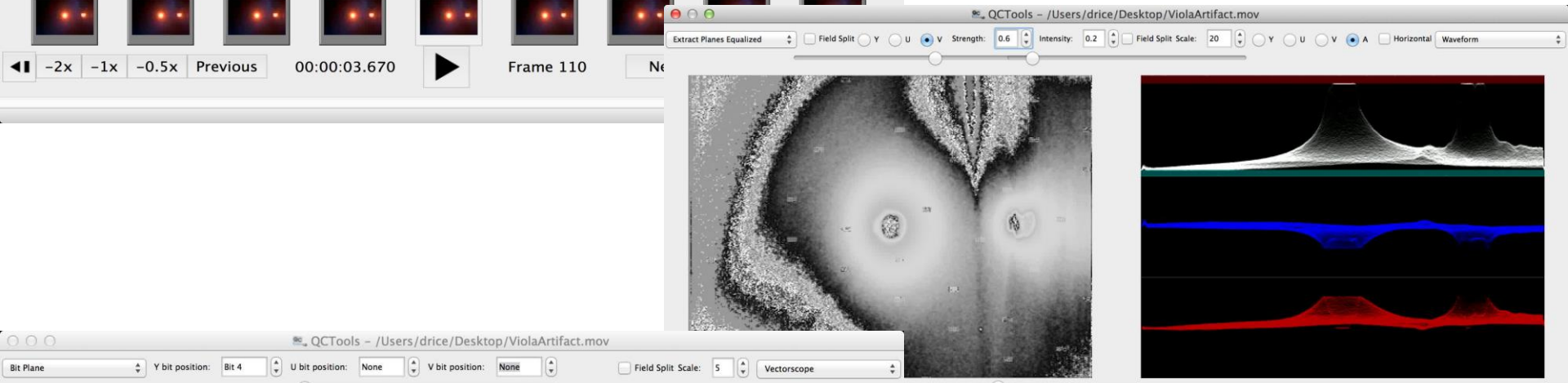
... ID: 768  
 ... Format: MPEG Video  
 ... Commercial name: XDCAM HD422  
 ... Format version: Version 2  
 ... Format profile: 4:2:2@High  
 ... Format settings, BVOP: Yes  
 ... Format settings, Matrix: Default  
 ... Format settings, GOP: M=3, N=9  
 ... Format\_Settings\_Wrapping: Frame  
 ... Duration: 4mn 52s  
 ... Bit rate: 50.0 Mbps  
 ... Width: 1 280 pixels  
 ... Height: 720 pixels  
 ... Display aspect ratio: 16:9  
 ... Frame rate: 59.940 fps  
 ... Color space: YUV  
 ... Chroma subsampling: 4:2:2  
 ... Bit depth: 8 bits  
 ... Scan type: Progressive  
 ... Compression mode: Lossy  
 ... Bits/(Pixel\*Frame): 0.905  
 ... Time code of first frame: 00:00:00  
 ... Time code source: Group of pictures header  
 ... Stream size: 1.70 GiB (90%)

**Audio #1**

... ID: 1024  
 ... Format: PCM  
 ... Format settings, Endianness: Little  
 ... Format\_Settings\_Wrapping: Frame (AFS)



# QCTools



# DV Analyzer

	Absolute time	DV timecode	DV timecode info	Rec. date/time	Rec. date/time info	Arb bits	Arb bits info	Start	End	Video error concealment	Audio errors	DV ti
0	00:00:00.000	00:01:51:26		XXXX-XX-XX XX:XX:XX.XXX		9						Timecode incohere
1	00:00:00.033	00:01:51:27		XXXX-XX-XX XX:XX:XX.XXX		A				18.81% (254 "A" errors)		
2	00:00:00.066	00:01:51:28		XXXX-XX-XX XX:XX:XX.XXX		B				19.26% (260 "A" errors)		
3	00:00:00.100	00:01:51:29		XXXX-XX-XX XX:XX:XX.XXX		0				19.41% (262 "A" errors)		
4	00:00:00.133	00:01:52:00		XXXX-XX-XX XX:XX:XX.XXX		1				18.15% (248 "A" errors)		
5	00:00:00.166	00:01:52:01		XXXX-XX-XX XX:XX:XX.XXX		2				18.00% (246 "A" errors)		
6	00:00:00.200	00:01:52:02		XXXX-XX-XX XX:XX:XX.XXX		3				23.19% (304 "A" errors)		
7	00:00:00.233	00:01:52:03		XXXX-XX-XX XX:XX:XX.XXX		4				28.59% (371 "A" errors)		
8	00:00:00.266	00:01:52:04		XXXX-XX-XX XX:XX:XX.XXX		5				34.74% (451 "A" errors)		
9	00:00:00.300	00:01:52:05		XXXX-XX-XX XX:XX:XX.XXX		6				38.37% (500 "A" errors)		
10	00:00:00.333	00:01:52:06		XXXX-XX-XX XX:XX:XX.XXX		7				41.85% (545 "A" errors)		
11	00:00:00.367	00:01:52:07		XXXX-XX-XX XX:XX:XX.XXX		8				45.26% (590 "A" errors)		

```
<?xml version="1.0" encoding="UTF-8"?>
<dvanalyzer>
  <configuration>
    <company>AudioVisual Preservation Solutions, Inc. http://www.avpreserve.com/</company>
    <version>1.4.0</version>
    <verbosity>5</verbosity>
  </configuration>
  <file>
    <filepath>/Users/drice/Desktop/dvanalyzer_files/DV_Analyzer_Sample_STTS_Fluctuat
    <frames>
      <frame type="first">
        <frame>0</frame>
        <abs_time>00:00:00.000</abs_time>
        <dv_timecode>00:00:00;00</dv_timecode>
        <recdate_rectime>XXXX-XX-XX XX:XX:XX.XXX</recdate_rectim
        <arbitrary_bit>8</arbitrary_bit>
      </frame>
      <frame type="error">
        <frame>43</frame>
        <abs_time>00:00:01.434</abs_time>
        <dv_timecode>00:00:00;00</dv_timecode>
        <recdate_rectime>XXXX-XX-XX XX:XX:XX.XXX</recdate_rectim
        <arbitrary_bit>3</arbitrary_bit>
        <events>
          <event type="error" event_id="6" event_type="Stts fluctuation">stts flucuation</event
        </events>
      </frame>
      <frame type="last">
        <frame>83</frame>
        <abs_time>00:00:02.769</abs_time>
        <dv_timecode>00:00:00;00</dv_timecode>
        <recdate_rectime>XXXX-XX-XX XX:XX:XX.XXX</recdate_rectime>
        <arbitrary_bit>7</arbitrary_bit>
      </frame>
    </frames>
    <frames count>84</frames count>
  </file>
</dvanalyzer>
```

DV Analyzer v.1.4.0 by AudioVisual Preservation Solutions, Inc. <http://www.avpreserve.com>

/Users/drice/Desktop/dvanalyzer\_files/DV\_Analyzer\_Sample\_STTS\_Fluctuation.mov

Frame Count: 84

Frame count with stts fluctuation: 1 frames

Percent of frames with Error: 1.19%

Percent of frames with Error (including Arbitrary bit inconsistency): 1.19%

Percent of frames with Stts Fluctuation: 1.19%

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DV Analyzer v.1.4.0 by AudioVisual Preservation Solutions, Inc. <http://www.avpreserve.com>

/Users/drice/Desktop/dvanalyzer\_files/DV\_Analyzer\_Sample\_Video\_Error\_Concealment\_original.dv

Frame Count: 23

Frame count with video error concealment: 22 frames

Total video error concealment: 10858 errors ( 10858 "A" errors)

Frame count with DV timecode incoherency: 1 frames

Frame count with Arbitrary bit inconsistency: 23 frames

Percent of frames with Error: 100.00%

Percent of frames with Error (including Arbitrary bit inconsistency): 100.00%

Percent of frames with Video Error Concealment: 95.65%

Percent of frames with Timecode Incoherency: 4.35%

Percent of frames with Arbitrary bit inconsistency: 100.00%

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DV Analyzer v.1.4.0 by AudioVisual Preservation Solutions, Inc. <http://www.avpreserve.com>

/Users/drice/Desktop/dvanalyzer\_files/DV\_Analyzer\_Sample\_Video\_Error\_Concealment\_unconcealed.dv

