SENSIO TECHNOLOGIES INC EBU PRESENTATION

April 30th, 2009

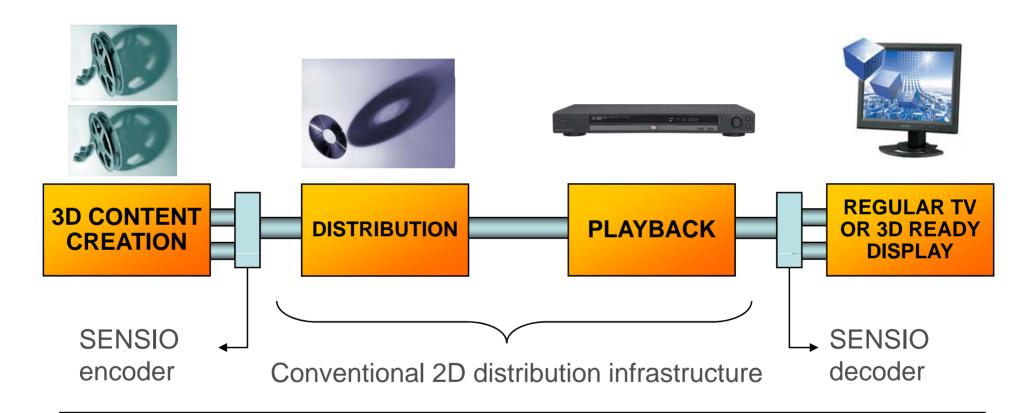
Presented by: Richard LaBerge



Overview of the Technology



SENSIO®3D SPATIAL COMPRESSION



THE SENSIO 3D TECHNOLOGY USES
THE 2D DISTRIBUTION
INFRASTRUCTURE FOR 3D CONTENT



"A" ENCODING

First pass analysis

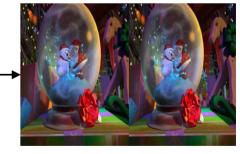
Frequency based spatial compression

Compressed image





R



2 streams at 1920X1080

2 streams at 960 X1080

1 stream at 1920X1080



"B" DECODING

0

Regional frequency detection

2

Weighted factor calculation

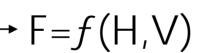
3

Image expansion



R

2 images at 960 X1080





2 images at 1920 X 1080

R



"C" FORMATTING

1

3D output mode selection

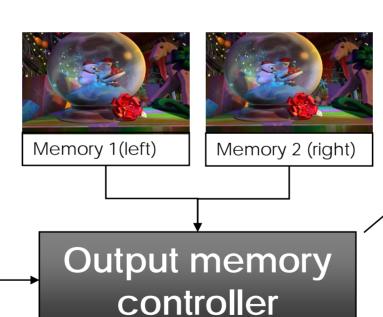
2

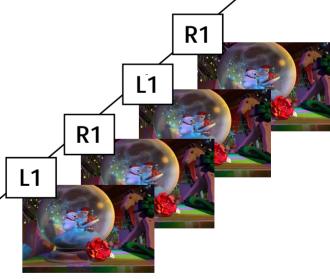
Selective memory access

3

Filtering and output

- Column interleave
- Line interleave
- 3D DLP
- Dual stream
- 2D
- Etc.





This example: Page flip at 2X (120Hz)



BENEFITS



QUALITY

Quality of Image

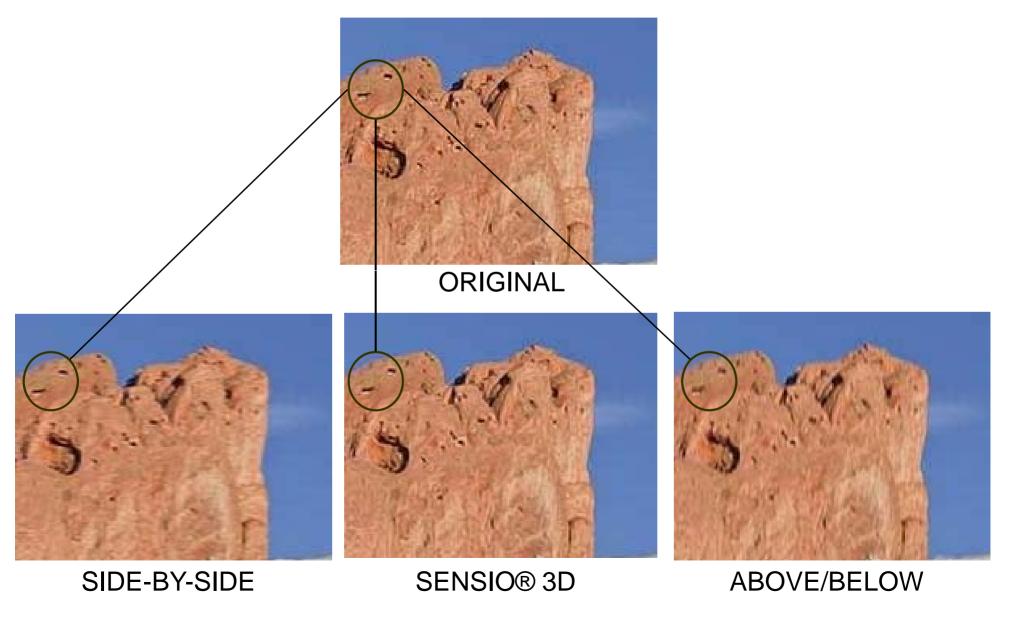
- Highest quality in the spatial compression format
- High fidelity to the original

Quality of 3D effect

 High fidelity to the effect desired (vs depth mapping)

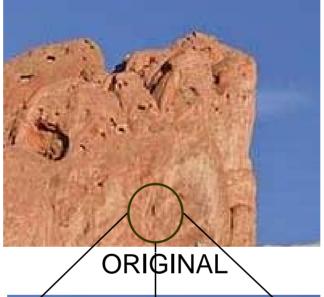


QUALITY





QUALITY

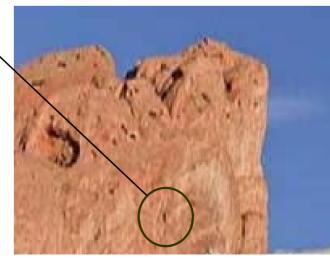




SIDE-BY-SIDE



SENSIO® 3D



ABOVE/BELOW



SENSIO is compatible with:

- Legacy players (Blu-Ray, DVD)
- Legacy receivers (VOD, PPV)
- Codecs (MPEG2, MPEG4, VC1)
- All existing and future 3D displays
- Mastering software, hardware, workflow
- Existing user interaction (pause, rewind, FF)
- Subtitles & close captioning













EFFICIENCY & SIMPLICITY

- No additional bandwidth or storage capacity
- No synchronisation issues
- Minimal hardware requirement (memory processing)
- Minimal processing delay (5 lines)
- Simple to integrate in hardware design

SENSIO IS AN EXTREMELY ROBUST TECHNOLOGY



EVOLUTIVE

- •Improvements on 2D transferred on 3D (4:4:4, 12 bits, higher bit rates, etc.)
- Second generation of SENSIO algorithms coming soon

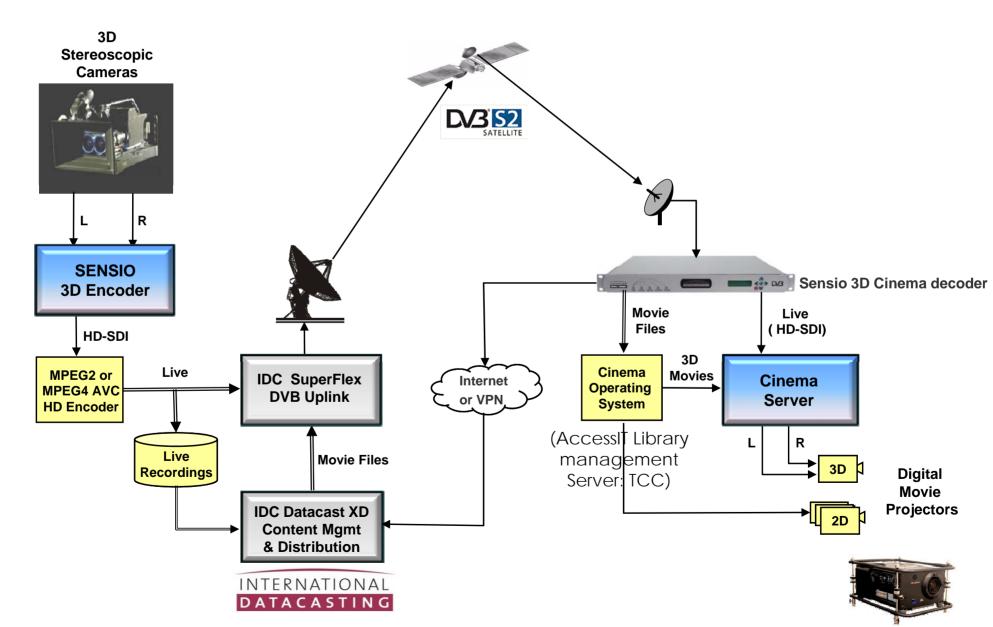


Future ready!



Broadcast applications Cinema & Home Examples





Sensio Home DISTRIBUTION

