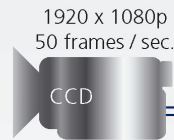


# HDTV Format Comparison

1080i/25 – 1080p/50 – 720p/50

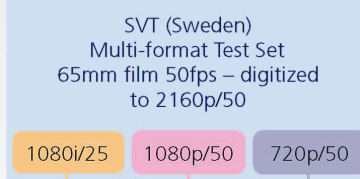
## SOURCE



1920 x 1080p  
50 frames / sec.

Dual link  
3 Gbit/s  
4:2:2 10 bit

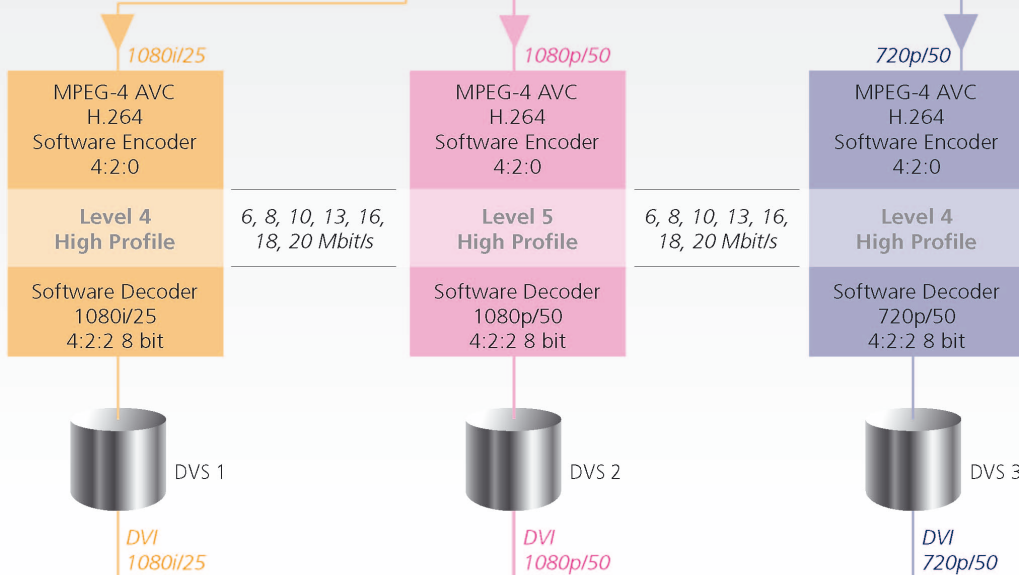
DVS



**Format conversion**  
Interlacing  
using  
pixel/line averaging  
over two  
1080p/50 frames  
1080i/25

**Format conversion**  
DVS subsampling  
using  
low pass filtering  
and windowed  
sinc scaling  
1080p/50  
720p/50

## COMPRESSION



## DISPLAY



MPEG-4 AVC Software coding by HHI - Berlin  
Sony HDC 1500 CCD camera  
Pioneer Ex5000 display – 1920 x 1080 pixels  
DVS CLIPSTER workstation – uncompressed 1080i/25, 1080p/50, 720p/50

1080p/50 ≈ 3 Gbit/s HD-SDI (dual link)  
1080i/25 ≈ 1,5 Gbit/s HD-SDI  
720p/50 ≈ 1,5 Gbit/s HD-SDI