

DVD

Authoring and Encoding

DVD is...



- An 'Authored' medium
DVD Video is not the same as DVD ROM with video files on it.
- Delivery Medium
- Video, Audio and Still Image media
- Interactive control
- End Actions

DVD Types



Recordable

- DVD+R, DVD-R

Re-Writable

- DVD+RW, DV-RW

(Not all players can play all formats)

(RW formats should not be used for professional delivery)

DVD Layers and Sides

- * DVD5 (single layer, single side) = 4.7gb approx 2hrs
- * DVD9 (double layer, single side) = 8.5gb approx 4hrs
- * DVD10 (single layer, double side) = 9.4gb approx 4.5hrs
- * DVD18 (double layer, double side) = 17gb approx 8hrs

DVD Types



RESOLUTION = Standard Definition

- 720x576 - 4:3 or 16:9 - Progressive or Interlaced

CODEC = Mpeg-2

- same as HDV and Digital TV broadcast

BITRATE = Up to 9.8mbps, Constant or Variable

- but many players may stutter at this bitrate. Safe rate is between 6-7mbps

- Constant Bitrate is more universal and better for short projects. Variable Bitrate more efficient and better for longer projects

AUDIO = PCM (uncompressed), Mpeg audio, Dolby AC3

- Mpeg and AC3 audio is compressed to save space. AC3 is the preferred method for delivering 5.1 surround sound.