



High Definition Production One-Sheet

Cable & Satellite Distribution

1080i / 59.94 with Dolby E (*Discovery will encode*)

Program Master Formats & Preferences

DCI Prefers programs to be acquired and mastered in the 1080i 59.94 signal standard.

Programs may be acquired in the 720 P 59.94 signal standard and mastered in 1080i 59.94 for delivery. Programs may be acquired and delivered in 1080 psf 23.98 or 25, or 1080i 50 only with prior permission from DCI.

Master Tape Format

Masters may be delivered on HD-D5 or HDCAM tape.

Audio

Audio sampling rates for:

HD Masters	48k at 20 bits
DA88 Masters	48k at 16 bits

Stereo on HD Master

Ch. 1	Stereo Left
Ch. 2	Stereo Right
Ch. 3	Stereo Mix Minus Narrator Left
Ch. 4	Stereo Mix Minus Narrator Right

Digital 5.1 Mix on DA-88

Ch. 1:	Left
Ch. 2:	Right
Ch. 3:	Center
Ch. 4:	LFE (Low Freq. Effects)
Ch. 5:	Left Surround
Ch. 6:	Right Surround
Ch. 7:	Full Mix Stereo Left
Ch. 8:	Full Mix Stereo Right

Audio Field Acquisition

If camera is recording at 23.98P, Audio must be recorded at 29.97 fps if it is being recorded on an outboard device (i.e. DAT).

Graphics

Image Pixel Resolutions:

1080	1920 x 1080
720	1280 x 720

Rendering graphics at 720P resolutions, followed by cross conversion, for usage in 1080 projects is acceptable.

Rate of 59.94i material = 29.97 fps

Source Material Notes

Non-HD Footage Limitations

Maximum of 25% non-HD material is allowed in production, with no more than 1-minute of contiguous non-HD footage in any sequence.

Use of HDV Footage

1080 line HDV footage may be used in HD programs with the following restrictions:

- Program may not contain any more than 15% HDV footage
- The combined percentage of HDV and SD upconverted footage is not to exceed 30%.
- Producers wishing to use HDV must submit an approved postproduction path outlining their handling of the footage in the editing process.

720P Camera Masters

720P material is acceptable, only with a pre-approved post production path and budget. Delivered Master must be at 1080 resolution.

Footage may not be converted from 1080i to 720 P for post and converted back to 1080i for mastering. We cannot allow multiple resolution changes on material. If you have an editorial need to use mixed resolutions, please discuss this with us.

Film Footage Acquisition

35mm Material – High definition datacine transfers of this material produces perfectly acceptable results.

Super16mm Material – High definition datacine transfers of this material do not currently produce results that are acceptable for usage in Discovery HD Theater Programs. Usage of this material is limited to non-HD footage guidelines.

DV and Mini DV Acquired Material

High definition upconversions from footage acquired using these formats do not produce results that are acceptable for usage in Discovery HD Theater Programs (DVCPRO HD is acceptable as noted above).

Visual Effects and Footage Treatments

Any visual effects that seem to add grain or noise to acquired material requires pre-approval by Discovery's Quality Control department (sample materials will need to be provided). As with film and lower end digital video formats, any significant video noise or film grain will potentially create complications during distribution.

Sony HD Camera Set-Up Note

The detail switch on Sony HD cameras should be set to OFF.