



## GEM Digital Cinema Package (DCP) Specification Guidelines

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### DCP Delivery for Screenings & Reviews

These specifications are intended for digital cinema screenings and internal review sessions in GEM facilities. DCP assets should be used for high-fidelity creative and editorial review—not for final technical approval.

Screening room projection booth access is limited to authorized GEM Screening Technicians.

For questions regarding asset delivery for GEM screenings and reviews, contact GEM Post Services Operations—Screenings.

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### Core DCP Technical Specs

- **File Format:** Digital Cinema Package (DCP) formatted per DCI standards.
  - **Resolution:** Use DCI 4K container resolution when possible (3996x2160 for Flat/1.85:1, 4096x1716 for Scope/2.39:1).
  - **Encoding:** JPEG-2000 compression as per DCI specification; for standard content, maximum VBR is 250 MB/s, or up to 500 MB/s for HDR/High Frame Rate content.
  - **Aspect Ratio:** Supported DCI formats include:
    - 2K Flat: 1998 x 1080
    - 2K Scope: 2048 x 858
    - 4K Flat: 3996 x 2160
    - 4K Scope: 4096 x 1716
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## Audio Specifications

- **Channels:** DCI compliant 5.1 Surround Sound is standard; Mono and Stereo are also accepted.
  - **File Format:** Audio provided as MXF-wrapped files matching image reels/segments.
  - **Sample Rate:** 48 kHz, 24 fps sync.
  - **Channel Layout:** Left, Right, Center, LFE, Left Surround, Right Surround.
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## DCP Delivery Details

- **Container Files:** DCPs must include standard DCI elements: Asset Map, Volume Index, Packing List (PKL), Composition Playlist (CPL), MXF-wrapped image/audio files.
  - **File System:** Deliver final DCPs on external drives formatted EXT2/EXT3 Linux, or NTFS as needed.
  - **Naming Convention:** Follow standard digital cinema naming conventions (see [www.isdcf.com/dcnc](http://www.isdcf.com/dcnc) for guidance).
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## General Guidance

- DCP should be delivered a minimum of two weeks before the scheduled screening date to allow for ingest and QC.
- All images must be synced with the corresponding audio elements.

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- Confirm physical media compatibility with GEM post facilities before final delivery.

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By following these GEM DCP specifications, all screening assets will be seamlessly prepared for creative review and presentation in a professional theatrical environment.