

CinemaDNG

the new Industry Standard in RAW Recording

All INDIECAM products offer CinemaDNG capabilities. We are an active member of the cinemaDNG Initiative group (for further information see [Adobe Labs – CinemaDNG Initiative](#)).

CinemaDNG is a digital replacement for film negatives that helps cinematographers ensure that their digitally captured scenes retain their pristine quality.

The CinemaDNG file format, which is designed as an [open file format](#), offers numerous benefits:

- **Workflow:** In many digital cinematography workflows, captured content is processed by software and hardware in the camera before it is saved to a storage device. CinemaDNG captures raw digital data directly from the camera's sensor, giving artists the power to make qualitative judgments after imagery has been saved to disk.
- **Open:** RAW image workflows are popular with various vendors, but usually they are proprietary. CinemaDNG offers camera and software vendors an open, standards-based RAW format that can be widely understood across workflows. There are no licensing fees for its use.
- **Compatible:** The CinemaDNG format is standards-based for all bit depths. For 16 or 32 bits, the byte ordering of the CinemaDNG data can be big-endian or little-endian as needed, to match the sensor output. The image encoding is compliant with current DNG readers, and compatible with the TIFF6. Sensors with bit depths from 8 to 32 bits may be used.
- **Sequences or MXF:** For a high level of compatibility with existing tools, CinemaDNG images can be stored as image-sequences in a directory structure, in an MXF wrapper, or transformed between these wrapping formats.
- **Minimal Overhead:** The CinemaDNG format typically adds less than 1 KB overhead per image. CinemaDNG files typically require half the storage space of corresponding DPX files.
- **Terms of Use:** There are no known intellectual property encumbrances or license requirements for CinemaDNG or its underlying formats DNG, TIFF, XMP, or MXF.

The CinemaDNG Metadata tags offer the possibility to store several Information to each CinemaDNG File (either as a Sequence of DNG files or as a single MXF file). Selected CinemaDNG Metadata Tags are:

- Timecode (SMPTE 309, ISO 8601)
- FPS
- BlackLevel
- WhiteLevel
- Multiple Color Matrices
- User Color Profiles
- Color-processing parameters for mapping sensor values to CIE XYZ color space
- Shutter
- T-Stop
- Focal Length
- Lens Info
- Lossless Compression or Uncompressed
- Arbitrary image height and width
- GPS Information
- Copyright Information
- Artist Information

For a complete list of all supported Tags download the CinemaDNG Specification:
<http://labs.adobe.com/downloads/cinamadng.html>