

# colorfront

## On-Set Dailies

**DESIGNED FOR THE MOST DEMANDING FEATURE AND TELEVISION PRODUCTIONS, EMMY AWARD-WINNING COLORFRONT ON-SET DAILIES INTEGRATES STATE-OF-THE-ART COLOR AND IMAGE SCIENCE AND FIELD-PROVEN TOOLS INTO THE ULTIMATE DIGITAL COLOR AND PROCESSING SOLUTION.**

Developed for the latest cameras and workflows, market-leading On-Set Dailies is a complete, sophisticated system that eases color grading, high-resolution playback, audio sync, and media and metadata management, and produces simultaneous faster-than-realtime deliverables. Adopted by leading studios, labs, and post facilities, On-Set Dailies is the innovative digital processing system of choice.

On-Set Dailies offers the most complete and tested toolset for digital acquisition, tapeless & data driven workflows.

- **UNPRECEDENTED SPEED OF PROCESSING:** turnaround time on acquisition, syncing, logging, and rendering is the fastest in the market. 100+ FPS rendering, and R3D playback in CPU without RED Rocket.
- **EASE OF USE:** advanced-design UI for metadata logging, VTRoll creation and one-touch audio syncing simplifies tedious tasks. Integrated checksum verified copying, QC, media management and archival.
- **INTEGRATED ACADEMY ACES WORKFLOWS:** use advanced color grading tools and manage color pipelines with ASC CDL, CCC, ARRI Look Files, automatic 3D LUT import and integrated live camera grading.
- **PRODUCTION-PROVEN:** On-Set Dailies is a complete and robust system, used and tested extensively on-set, near-set and in facilities, and is backed by a highly responsive development and support team.
- **UHDTV AND 4K SUPPORT:** On-Set Dailies supports all the latest digital cinematography cameras for realtime playback in UHDTV and 4K, including support for high frame rate projects.

### KEY FEATURES

Multiple RAW/uncompressed source formats  
Realtime 4K playback of ARRIRAW, CANON RAW, SONY F65RAW  
100+FPS rendering of DNxHD MXF, ProRes, Blu-Ray and H.264  
Mezzanine format support for IMF JPEG2000, SStP, MXF AS-02  
Faster than realtime JPEG2000 DCP and IMF MXF rendering  
Sound syncing, Multiple burn-ins  
Extensive Color grading  
Stereoscopic 3D tools  
Flexible 32-bits per channel node-based image processing pipeline  
Simultaneous creation of multiple delivery formats:  
DVDs, Blu-Rays, iPad, PiX / DAX, QT, MXF, WMV, WAV, TIF, JPG  
Built-in waveform, histogram, stereo analysis tools  
Bin Management with extensive metadata search functions  
**New! On-Set Live™** Look Creation

Native 64-bit application, fully multi-threaded  
32 bits per channel, floating point image processing in GPU  
Academy ACES workflow with IDT, RRT, ODT  
OpenEXR file format support  
CANON C500 RAW 4K realtime support  
SONY F65RAW/F55RAW realtime 4K playback & processing  
SONY XAVC 4K and SRFile SStP encoding and playback  
ALEXA DNxHD and 2K ProRes format Support  
Aaton Delta Penelope and BlackMagic CinemaDNG support  
ARRI ALEXA Look File, end-to-end look management  
ProRes rendering for Final Cut editorial  
iPad streaming dailies with COPRA Server  
Codex, ScriptE metadata support  
**New! Copy Central™** Ingest & Archive

## TECHNICAL SPECIFICATIONS

### ULTRA HIGH PERFORMANCE AND OPEN ARCHITECTURE

Native 64-bit application  
Real-time 4K60P playback of most RAW camera formats  
Real-time RED Epic R3D playback in 2K using CPU  
32 bits per channel, floating point image processing  
Shared SQL database for all metadata  
Python scripting for flexible customization  
PHP server side script access to shot based metadata  
XML based format support for various metadata  
Automatic PDF manifest report generation

### NEW! ON-SET LIVE™ LOOK CREATION

Grade live on camera HD monitor feeds  
Multi camera support, with color grading offset for cameras  
Still store, split screen, waveform and histogram analysis tools  
Camera metadata views with data extracted from HD-SDI signal  
Export and manage CDLs and 3D LUT files for external LUT boxes  
Compatible with Colorfront EMD metadata files used by dailies systems  
Full color science for all professional camera formats supported  
Includes full support for Academy ACES color workflows

### NEW! COPY CENTRAL™ INGEST & ARCHIVE

Fast checksum verified copies to multiple destinations  
Concurrent archival to dual LTO5 & 6 tapes via LTFS  
Archive database, bar codes, and transfer reports  
Archival and ingest Manifest Report and TOC generation  
Concurrent, background ingest of multiple cards

### SOUND SYNCING

Automatically sync audio, based on timecode for smart slate shoots  
Analyze audio to extract clap sound for semi-automatic sound syncing  
Automatic image recognition for smart slate timecode reading  
Manual sound syncing with sync slip and audition  
Entering scene/slate/take/cam/select info from BWF file header  
Cut roll into shots rendering multiple audio files to stereo stream  
Multiple sound mix-down templates for different deliverables  
SDI embedded and balanced AES/EBU audio through DVS break-out-box

### COLOR CORRECTION AND IMAGE PROCESSING

Full IIF-ACES workflow support with IDT, RRT, ODT  
1D and 3D LUTs in .cube and .3dl formats  
ASC-CDL import / export in CMX EDL, ASC CCC  
Import/export reference images in TIF or DPX format  
Primary color grading - master RGB color processor with saturation, contrast, high, mid and low corrections.  
Autodesk Lustre® compatible primaries and printer lights grading  
Sector color grading - R,G,B,C,M,Y  
LUT node - with floating point 1D and 3D mesh LUTs  
Resizing - high performance resize engine with high quality filtering  
DVE - reposition, resize, rotation, flip & flop  
Burn-in - text burn-in of multiple metadata including KK, TC, user text, watermark, logo burn, and letterbox

### STEREOSCOPY

Realtime dual-channel play-out of DPX, R3D, ProRes, ARRIRAW  
Automatic color matching between left and right eyes  
Depth histogram, waveform analysis tools  
Stereo 3D depth grading, edge based disparity estimator  
Epipolar based auto geometry fix (scale/rotate/translate)  
Automatic spatial alignment and corner pinning  
Side-by-side, over-under, interlaced stereo modes  
Two-channel stereo HD output

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## SUPPORTED FORMATS

### SOURCE MEDIA & CAMERA FORMATS

Uncompressed media (DPX, TIFF files from digital, tape or scanned sources)  
OpenEXR uncompressed 16bit format support  
Sony F65RAW/F55RAW/F5RAW,XAVC 4K, SONY SRFile (SStP) MXF  
Canon C500 RAW, C100/C300/C500 MPEG2 MXF  
Red REDCODE RAW (R3D) support RED One MX and Epic incl. HDRx  
Alexa ARRIRAW, DNxHD and ProRes 422 and 4444  
Phantom Flex, HD Gold and 65 .cine RAW  
Silicon Imaging SI-2K Cineform RAW  
Aaton Delta Penelope, Blackmagic Cinema Camera, CinemaDNG  
Canon EOS 1D/5D/7D H264 QuickTime

### ENCODING FORMATS

Avid DNxHD MXF and DNxHD QuickTime files  
Final Cut Pro ProRes (ProRes 444, ProRes 422 HQ, Proxy, LT) files  
MPEG4 H.264 for web delivery, iPhone and iPad, etc.  
MPEG2 for authored DVDs, chaptered Blu-ray, etc.  
SONY SRFile SStP MXF  
QuickTime files with various codecs  
DPX, TIFF, OpenEXR, JPG2000, JPG  
WAV broadcast wave audio files, stereo and multi-channel  
Export various metadata incl. CMX EDL, FLX, ALE, FCP XML, CDL, CCC

### METADATA SUPPORT

Broadcast audio BWAIV including header metadata  
ScriptE, QTake XML, ARRI Alexa XML, Codex XML, and 5th Kind  
Arri Lens Data System LDS.XML and Cooke /i lens metadata support  
Colorfront EMD™ Express MetaData sidecar XML file  
Color metadata import and export, CDL, CCC, and ALE

## HARDWARE REQUIREMENTS

### MICROSOFT WINDOWS 7 64-BIT

Dual 6 or 8 core processors  
Minimum 24 GB RAM  
Nvidia GeForce GTX 690 dual-GPU CUDA processing board  
Separate Nvidia Quadro 4000 or K4000 display card  
Local (SSD) or external FC storage

### MAC OS X 10.8 MOUNTAIN LION

Mac Pro Tower  
Dual 4 or 6 core processors  
Minimum 24 GB RAM  
NVIDIA GeForce GTX 680, 690, or Quadro 4000, K4000, or K5000  
Local (SSD) or external FC storage

### OPTIONAL PERIPHERALS SUPPORT

AJA Kona 3G or Corvid Ultra (Windows & Mac Pro) or DVS Atomix (Mac Pro) or AJA Io XT (MacBook Pro)  
Multiple RED Rocket support (Windows and Mac Pro)  
Archival on LTO 5 and LTO 6 LTFS

### CONTROL PANELS SUPPORT

Tangent Devices ELEMENT, WAVE, CP200  
AVID Artist Color and Transport panels