Transkoder 2015 is the latest release of Colorfront’s mastering system for digital cinema and high-end UHDTV production. Colorfront Transkoder is the ultimate tool for DCP and IMF mastering, offering the industry’s highest performance JPEG2000 encoding and decoding, 32-bit floating point processing on multiple GPUs, MXF wrapping, accelerated checksums, encryption & decryption, IMF/IMP and DCI/DCP package mastering, editing and versioning.

Transkoder 2015 features a brand new, easy-to-use user interface, a multi-track timeline, EDL conform & editing tools, support for subtitling, automatic watch folder processing, plus extended support for various camera formats including Canon XF-AVC Intra, BMD CinemaDNG, R3D Dragon, ALEXA 65 ARRIRAW, 4K XAVC, ProRes XQ and deliverables including DCPs, IMF, HEVC, AS-02 and AS-11 DPP and DNxHR.

Running on the latest Mac and PC platforms, including the latest Supermicro and HP Z840 workstations and the Mac Pro, Transkoder 2015 allows online editing of RAW camera data, converting to various output formats, color grading and mastering for HDR and rendering various 2K/4K/UltraHD high-end delivery and mezzanine formats.
New for 2015, **Transkoder** adds highest performance mastering capabilities and automates fast, top quality digital file conversion for studios and VFX facilities involved in motion picture & TV production.

**KEY FEATURES OF TRANSKODER 2015 INCLUDE:**

- **DCP AND IMF**: Industry-leading IMF, DCP, AS-02 mastering, authoring, validation, and QC tool
- **PERFORMANCE**: 4K DCP/UHD IMF and HEVC encoding at 100+ FPS
- **GPU PROCESSING**: state of the art multi-GPU image processing engine
- **ULTRAHD 8K**: industry-first, real-time 60FPS 8K (4320p) & S3D 4K (2160p) system
- **RAW SUPPORT**: Highest quality RAW de-Bayering from any camera from AJA Cion to ALEXA65
- **HDR READY**: PQ curve and REC2020 support for various deliverables
- **COLORFRONT ENGINE**: 32-bits per channel managed look pipeline built on ACES 1.0
- **PC, MAC AND AWS**: Running on off-the-shelf workstation, no obsolescence-prone, proprietary hardware

**TECHNICAL SPECIFICATIONS**

**ULTRA HIGH PERFORMANCE AND OPEN ARCHITECTURE**
Native 64-bit application
Real-time 4K60P playback of most RAW camera formats
32 bits per channel, floating point image processing
Python scripting for flexible customization
Powerful and full featured REST API
Automatic QC tools and PDF report generation

**DCP AND IMF MASTERS**
InterOP and SMPTE packages
Color space conversion
Encryption and KDM generation
MXF wrapping for video and audio
Checksum calculation
Supplemental DCPs / versioning
Validation tools with reporting
Package naming based on DCI convention
Stereoscopic 3D support
High Frame-rate support
PNG/timed text animated subtitles
Dolby Atmos and D-BOX support
Audio channel labeling
Bitrate and PSNR analysis tools

**COLOR CORRECTION AND IMAGE PROCESSING**
Full ACES 1.0 workflow support with IDT, RRT, QDT
ASC-CDL import / export in CMX EDL, ASC CCC
1D and 3D LUTs in .cube and .3dl formats
Resizing and anamorphic squeeze
UltraSccaler - high quality resize engine for HD to UHD scaling
DVE - reposition, resize, rotation, flip & flop
Burn-in - text burn-in of multiple metadata including KK, TC, user text, watermark, logo, and spoiler, letterboxing
EDL conform and VFX export in DPX and OpenEXR format

**SUPPORTED FORMATS**

**SOURCE MEDIA & CAMERA FORMATS**
Uncompressed media (DPX, TIFF)
OpenEXR uncompressed 16bit format support
Sony F65RAW/F5SRAW/F5S RAW, XAVC 4K
Canon C500 RAW, 4K XF - AVC INTRA
Red REDCODE RAW (R3D) support with GPU deBayer
Alexa ARRIRAW, including Mini, SXT and ALEXA65 RAW
ProRes 422 and 4444, including XQ
Phantom, S12K, Aaton, Indicum etc.
Blackmagic Cinema Camera, CinemaDNG
Canon EOS 1D/5D/7D H264 QuickTime

**ENCODING FORMATS**
High Efficiency Video Codec (HEVC)
Digital Cinema Package (DCP) with subtitles, encryption
Interoperable Mastering Format (IMF)
Apple ProRes (444, 422, L, Proxy, HQ, XQ)
Avid DNxHR and DNxHD MXF and DNxHD QuickTime files
ProRes (ProRes 444, ProRes 422 HQ, XQ, Proxy, LT) files
MPEG4 H.264 for broadcast and web delivery including 10-bit MPEG2 for authored DVDs, chaptered Blu-ray, etc.
QuickTime files with various codecs
DPX, TIFF, OpenEXR, JPEG2000, JPG
WAV broadcast wave audio files, stereo and multi-channel
Export various metadata incl. CMX EDL, FLX, ALE, FCP XML, CDL

**HARDWARE REQUIREMENTS**

**MICROSOFT WINDOWS 7 64-BIT OR WINDOWS SERVER 2012 R2**
Dual 14/18-core Intel processors
Minimum 24GB RAM
Upto 3x NVIDIA Titan-X GPU cards + NVIDIA M6000 display card
(Optional) AJA Kona 4 upto 4K@60p video output
(Optional) Tangent Devices ELEMENT control panel

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