Open Film Tools Camera Colour Management Tools for Movie and TV Production

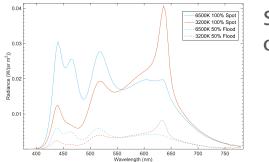




- Based on the procedure for creating Input Device Transforms (ACES-IDT) defined by the Academy of Motion Picture Arts and Sciences
- ACES requires spectral characteristics of cameras and lighting.
- Manufacturers do not provide this data.

Open Film Tools brings data, hardware and software for creating camera profiles.

Open Film Tools Components



Spectral Database of Cine Lighting

Hardware for Measuring Camera Response



3D-printable Case Design



compendium

Cine lightin Dedoliah



Spectral Image

Measurement Setup

Web Based IDT **Profile Creation Server**

Open Film Tools IDT Profile Creation

Submission Form **Progress Status** Production Information Production A Better Colour Company HdM Stuttgart Operator Andreas Karge E-Mail karge@hdm-stuttgart.de Time 31.05.2017 15:47:26

White Point Daylight D50 Color Domain Lab Patch Set Gretag Macbeth Color Checker Scene Illumination Tungsten (Illuminant A)

Profile Optimization

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Calibration Mode:
Color Checker
Spectral (experimental)

Camera Images					
Kino Flo Calibration Image File					
line.tiff					
Dedolight Calibration Image File					
light.tiff					

Spectrometer Measurements

Kino Flo Measurement File

Dedolight Measurement File ESPD light.xls

ESPD line.xls

Test Image

Demo Image to preview the IDT

testimage-testimage-checker-simpledebayer-clear

Camera Information

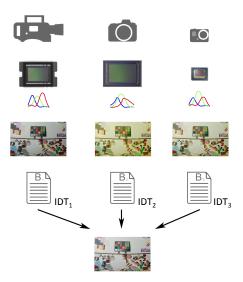
HOCHSCHULE **DER MEDIEN**

Sensor Diagonal (mm)						
n.n.						
Lens Stop						
8						
Focal Length (mm) 45 Spectrometer						
UprTek						
UprTek Camera Settings comment						

www.hdm-stuttgart.de/open-film-tools

Benefits of Open Film Tools

 Increase cost efficiency in postproduction



 Replace manual colour correction by automatic colour mapping for different cameras Awareness of lens colour character





Art Work by Bo Regard (www.appreciating-art.de)

- Create profiles for unknown cameras
- Improve colours for mixed illumination



	L _{CCT}	a _{cct}	b _{CCT}	L_{spec}	a _{spec}	b _{spec}	$\Delta E2000_{CCT}$	$\Delta (\Delta E2000)_{\text{spec-CCT}}$
Dark Skin	44.65	10.74	24.44	44.58	11.31	23.49	9.21	-0.70
Orange	67.88	30.75	68.00	67.72	32.27	63.25	6.76	-1.77
Cyan	48.50	-16.68	-23.55	48.69	-17.94	-22.41	6.18	-0.60

