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**INSTITUT FÜR
ANGEWANDTE FORSCHUNG**

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Ihr Schreiben vom

Ihr Zeichen

Unser Zeichen

Datum 22. Juli 2014

Sehr geehrte Damen und Herren,

An der Hochschule der Medien in Stuttgart führen wir derzeit ein Projekt zum Thema Farbwiedergabe von Kameras durch.

Wir wollen Werkzeuge entwickeln, die Ihnen helfen verschiedene Kameramodelle in einer Produktion zu mischen. Durch eine präzise Kameracharakterisierung wollen wir den Aufwand beim Abgleichen der Kameras in der Farbkorrektur verringern. Außerdem wollen wir Ihnen ermöglichen bei Motivbesichtigungen mit einer Standbildkamera, z.B. einer digitalen Spiegelreflexkamera die Farbwiedergabe Ihrer finalen Produktionskamera vorherzusagen.

Wir sind vom gemeinnützigen KSF3 Programm der MFG-Stiftung Baden-Württemberg gefördert. Daher können wir die Ergebnisse allen interessierten Parteien zur Verfügung stellen. Eine erste Präsentation ist für Beginn 2015 geplant. Eine Übersicht zu dem Projekt gibt es auch auf:

- http://www.hdm-stuttgart.de/open-film-tools/kamera_charakterisierung
- <http://stiftung.mfg.de/de/forschungsforderung/projekte/open-film-tools>
- <https://innovation.mfg.de/de/standort/bildung-forschung/forschungswissenschaft/kamera-charakterisierungen-zur-besseren-farbwiedergabe-1.22780>

Um Ihre Anforderungen an die Farbwiedergabe von Kameras herauszufinden haben wir einen Fragebogen entworfen. Wir würden uns sehr freuen, wenn Sie sich die Zeit nehmen, um ihn zu beantworten und ihn uns zurück senden.

Bei Fragen stehen wir Ihnen gerne zur Verfügung:

Stefan Grandinetti

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Tel. +49 711 8923 2263 (Viel unterwegs, am besten Mo 15:00-17:00)

Jan Fröhlich

jan@fr.oehli.ch

Skype: hclheorf (wenn online, bis 31.8.14 in den USA: Zeitzone: GMT-8)

Andreas Karge

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Tel. +49 711 8923 2825 (am besten Di 10:00-17:00)

User requirements for camera characterization

1. Existing Tools

Did you already use any camera color calibration tools? If yes, please name them and tell us in which part of the production workflow the calibration is employed? If you stopped using camera characterization tools, why don't you use it anymore?

2. Light Sources

Which lighting products do you frequently use? (Product name and Manufacturer)

Which additional light sources do you use or are important for you? (*E.g. natural or artificial lights*)

3. Camera

Is your camera connected to a PC or mobile device during movie capturing? If yes, name product and vendor. What actions are carried out using these devices?

4. Color Challenges

a) Please name one (or more) objects and scene properties, which were always reproduced correctly.

Typical Object:

Typical Illumination:

Lens and Filter (if known):

Camera:

EV (if known):

Other conditions during take (optional):

Post Production Facility:

Grading System:

Used Camera Characterization (if known):

b) Please name one (or more) objects and scene properties, where you frequently encountered a disappointing reproduction.

Typical Object:

Typical Illumination:

Lens and Filter (if known):

Camera:

EV (if known):

Other conditions during take (optional):

Post Production Facility:

Grading System:

Used Camera Characterization (if known):

5. Calibration Sequence

Where do you think is a good place in your production workflow for a camera calibration?

- at rental service during preparation
- at location scouting
- when the light setup is finished
- just before scene is taken
- during clapperboard recording
- after recording the take/scene

How much time is acceptable for better camera reproduction?

at rental service during Prep	none	10 min	30 min	90 min
at location preview	none	1 min	3 min	9 min
When scene lighting is finished	none	10 sec	30 sec	90 sec
Before scene capture / during clap	none	3 sec	9 sec	20 sec

The calibration might require a set of standard procedures. Which one would be acceptable for you?

	Change camera setup to certain standard settings and reverse before shoot	Take white level image	Take black level image	Take test chart image
at rental service during Prep				
daily				
When scene lighting is finished				
Before scene capture / during clap				

Which person (position/qualification) of your team would you prefer to do this calibration?

6. Calibration Results

Do you color grade still images from location scouting for look development? How do you investigate which illuminants are present on location?

Do you grade still images during the shoot? If yes, please name the tools. Do you share the grading results with other persons? If yes please name their positions.

7. Existing Standards

Did you already hear about the ACES Framework, developed by the AMPAS? If yes, what are your thoughts and experiences with ACES?

Contact (optional)

Name:

E-mail:

Phone:

Address:

Open Film Tools

Andreas Karge, Jan Fröhlich (BVK), Stefan Grandinetti (BVK), Bernd Eberhardt