



\ ACADEMY COLOR ENCODING SYSTEM \

ACES Pipeline Assessment

HPA 2018

Presented by Joachim Zell
ACES Project Vice-chair

Capture



CDL V1

Dailies



CDL V2

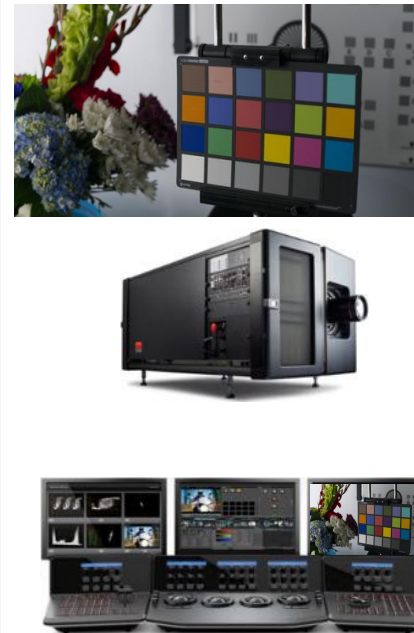
Editing



VFX



Finishing



CDL V2 & DI Color Correction

January Monday Autumn
February Tuesday Winter
March Wednesday 2018
April Thursday 2019
May Friday 2020
June Saturday
July August Sunday
September October Spring
November December Summer



2015









Camera1

Camera2

Camera3

Camera4

Color
Corrector
1



Color
Corrector
2



Color
Corrector
3



Color
Corrector
4



2017

More Cameras
Same Color Correctors

CAMERAS BY
OTTO NEMENZ



Same Setup for each Camera



ATFIC

t 24.00p Y-RAW 7.45m



24fps 180.0deg 150820 320%





2017 Camera and Color Corrector Test

CONCLUSION

All color correctors deliver the same result, meaning IDTs, RRT and ODTs are implemented the same way

However, IDTs to match cameras could be improved

2018

More Cameras !!





ASC ACES IDT TEST
12.2017

B001C002_171218_R&XL.0000292.ari

ASA 800

Shutter 180.0

ARRI RAW

K 3200

PANAVISION



ToDo

- Implement ACES standard video monitoring outputs
- Define test setup to shoot 18% gray card as 800 ASA under 3200 Kelvin lighting
- Define color saturation
- Define allowed tolerances

ACES is in products from these companies

ARRI

Assimilate

Autodesk

Canon

Color Trix

Codex

ColorFront

Deluxe

Digital Vision

Dolby Laboratories

FilmLight

Firefly Cinema

FotoKem

Light Illusion

Marquise Technologies

MTI Film

Panasonic

Pomfort

RED DIGITAL CINEMA

SGO

Snell Advanced Media

Shotgun Digital

Sony Electronics, Inc.

Technicolor

The Foundry



Look for this Logo

ACES components, documentation
and educational materials
are available here:

[ACESCentral.com](https://www.acescentral.com)

(for free)



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ACESCentral.com

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