DIGITAL PRODUCTION CHALLENGE
How to deal with the developments of the digital era

Warsaw, 28 – 30 November 2013
Production: Les Films d’Ici - Michael Kohlhaas

Workflow by DIGIMAGE

Directed by Arnaud des Pallières

Michael Kohlhaas

Producer: Serge Lalou - Les Films d’Ici
Post-production manager: Florence Gilles
Cinematographer: Jeanne Lapoirie AFC
Managing director, digital film lab, Digimage, France: Tommaso Vergallo

Layout design: Philippe Ros 2013   www.philipperos.com
Production: Les Films d’Ici - Michael Kohlhaas

Workflow by DIGIMAGE

France

Michel Kohlhaas

ALEXA
(Arri Digital)
SxS
ProRes 12-bit 4:4:4:4 Recording
Production: Les Films d’Ici - Michael Kohlhaas

Workflow by DIGIMAGE

Shoot

Alexa

Editing

Postproduction

Film Screening

Digital Screening

Broadcasting

Blu-ray

Internet
Production: Les Films d’Ici - Michael Kohlhaas

**Shoot**

*Alexa*

**Editing**

**Postproduction**

*R & D*

Creation of customized LUT’s & Look

**Film Screening**

**Digital Screening**

**Broadcasting**

**Blu-ray**

**Internet**
Production: Les Films d’Ici - Michael Kohlhaas

Shoot

- Alexa
- Video Assist
- Dit Monitor

Postproduction

- R & D
  - Creation of customized LUT’s & Look

Editing

Workflow by DIGIMAGE

Film Screening

Digital Screening

Broadcasting

Blu-ray

Internet
Production: Les Films d’Ici - Michael Kohlhaas

**Shoot**
- Alexa
- Video Assist
- DIT Monitor
- Dailies: External rugged drive

**Postproduction**
- R & D: Creation of customized LUT’s & Look

**Editing**

**Workflow by** DIGIMAGE

**Film Screening**

**Digital Screening**

**Broadcasting**

**Blu-ray**

**Internet**
Production: Les Films d’Ici - Michael Kohlhaas

**Shoot**
- Alexa
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- Dit Monitor
- Dailies External rugged drive
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**Postproduction**
- R & D
  - Creation of customized LUT’s & Look

**Editing**

**Workflow by DIGIMAGE**

**Film Screening**

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**Internet**
Production: Les Films d’Ici - Michael Kohlhaas

**Shoot**
- Alexa
- Video Assist
- Dit Monitor
- Dailies External rugged drive

**Postproduction**
- R & D
  - Creation of customized LUT’s & Look
- SAN
  - Quantum LTO IV drives
  - Dailies
    - DNx HD 36 with preview LUTs

**Editing**
- Avid Media Composer 5.5

**Workflow by DIGIMAGE**

**Film Screening**

**Digital Screening**

**Broadcasting**

**Blu-ray**

**Internet**
Shoot

- Alexa
- Video Assist
- Dit Monitor
- Dailies External rugged drive
- Dailies External rugged drive
- Dailies DNx HD 36 with preview LUTs

Editing

- DVD PAL For producers & co-producers
- Synch dailies by assistant
- Avid Media Composer 5.5

Postproduction

- R & D Creation of customized LUT's & Look
- Back up SAN-Sync Quantum LTO IV drives
- SAN
- Dailies

Production: Les Films d’Ici - Michael Kohlhaas

Workflow by DIGIMAGE

Film Screening
- Blu-ray

Digital Screening
- Broadcasting

Broadcasting
- Film Screening
- Internet
Production: Les Films d’Ici - Michael Kohlhaas

**Shoot**
- Alexa
  - Video Assist
- Dit Monitor
  - Dailies External rugged drive
  - Dailies External rugged drive

**Postproduction**
- R & D
  - Creation of customized LUT’s & Look
- SAN
  - Quantum LTO IV drives
- Back up SAN-Sync
- Conform
  - DPX files
  - 2K 10-Bit Log
- Dailies
  - DNx HD 36 with preview LUTs
- Resolve
  - Grading

**Editing**
- DVD PAL For producers & co-producers
- Synch dailies by assistant
- Avid Media Composer 5.5

**Film Screening**

**Digital Screening**

**Broadcasting**

**Blu-ray**

**Internet**
Production: Les Films d’Ici - Michael Kohlhaas

**Postproduction**
- **R & D**
  - Creation of customized LUT's & Look
- **SAN**
  - Quantum LTO IV drives
- **Back up**
  - SAN-Sync
- **Conform**
  - DPX files
- **2K 10-Bit Log**
- **Resolve**
- **Grading**

**Shoot**
- Alexa
- Video Assist
- Dit Monitor
- Dailies External rugged drive
- Dailies External rugged drive

**Editing**
- DVD PAL For producers & co-producers
- Avid Media Composer 5.5
- Synch dailies by assistant

**Film Screening**
- Blu-ray
- Internet

**Digital Screening**

**Broadcasting**

**Production: Les Films d’Ici - Michael Kohlhaas**
Workflow by DIGIMAGE
Production: Les Films d’Ici - Michael Kohlhaas Workflow by DIGIMAGE

**Shoot**
- Alexa
- Video Assist
- Dit Monitor
- Dailies External rugged drive

**Postproduction**
- R & D Creation of customized LUT’s & Look
- SAN-Sync Quantum LTO IV drives
- Conform DPX files 2K 10-Bit Log
- Dailies DNx HD 36 with preview LUTs
- Resolve Grading

**Editing**
- Avid Media Composer 5.5
- DVD PAL For producers & co-producers

**Back up**
- San-Sync Quantum LTO IV drives

**Synch dailies by assistant**
- Synch dailies by assistant

**Broadcasting**
- Digital Screening
- Blu-ray
- Internet

**Film Screening**
- Blu-ray Internet

**Video Assist**
- DVD PAL For producers & co-producers
- Synch dailies by assistant
**Production: Les Films d’Ici - Michael Kohlhaas**

**Workflow by DIGIMAGE**

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**Shoot**
- Alexa
- Video Assist
- Dit Monitor
- Dailies
  - External rugged drive
  - External rugged drive

**Postproduction**
- R & D
  - Creation of customized LUT’s & Look
- Back up
  - SAN-Sync
  - Quantum LTO IV drives
- SAN
- Conform
  - DPX files
- 2K 10-Bit Log
- Dailies
  - DNx HD 36 with preview LUTs
- VFX
- Titles
- Resolve
- Grading

**Editing**
- DVD PAL
  - For producers & co-producers
- Synch dailies
  - by assistant
- Avid Media Composer 5.5

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**Film Screening**
- Blu-ray
- Internet
- Broadcasting
- Digital Screening
- Film Screening
**Production: Les Films d’Ici - Michael Kohlhaas**

**Workflow by DIGIMAGE**

**Postproduction**
- **R & D**: Creation of customized LUT’s & Look
- **SAN**: Quantum LTO IV drives
- **SAN-Sync**: R & D Creation of customized LUT’s & Look
- **Back up**: Quantum LTO IV drives
- **Conform**: 2K 10-Bit Log
- **Resolve**: DNx HD 36 with preview LUTs
- **Grading**: Dailies
- **VFX**
- **Titles**: Dailies
- **External rugged drive**: Dailies
- **Dit Monitor**: External rugged drive
- **Dailies**: External rugged drive

**Shoot**
- **Alexa**: Video Assist
- **Alexa**: Video Assist
- **Alexa**: Video Assist
- **Alexa**: Video Assist
- **Alexa**: Video Assist

**Editing**
- **Avid Media Composer 5.5**: Synch dailies
- **DVD PAL For producers & co-producers**: Synch dailies by assistant
- **Synch dailies by assistant**: Synch dailies by assistant
- **Synch dailies by assistant**: Synch dailies by assistant
- **Synch dailies by assistant**: Synch dailies by assistant

**Film Screening**
- **Film Screening**

**Digital Screening**
- **Digital Screening**

**Broadcasting**
- **Broadcasting**

**Blu-ray**
- **Blu-ray**

**Internet**
- **Internet**
Production: Les Films d’Ici - Michael Kohlhaas

Workflow by DIGIMAGE

Shoot
- Alexa
- Video Assist
- DIT Monitor
- Dailies External rugged drive
- Dailies External rugged drive

Postproduction
- R & D
  - Creation of customized LUT’s & Look
- SAN-Sync
  - Quantum LTO IV drives
- SAN
- Conform
  - DPX files
  - 2K 10-Bit Log
- Dailies
  - DNx HD 36 with preview LUTs
- VFX
- Titles
- Resolve
- Grading
- DCDM
- Transfer to film

Editing
- DVD PAL
  - For producers & co-producers
- Synch dailies by assistant
- Avid Media Composer 5.5

Film Screening
- Blu-ray
- Internet

Digital Screening
- Broadcasting
Production: Les Films d’Ici - Michael Kohlhaas

**Shoot**
- Alexa
  - Video Assist
  - Dit Monitor
- Dailies
  - External rugged drive
- Dailies
  - External rugged drive

**Postproduction**
- R & D
  - Creation of customized LUT’s & Look
- Back up
  - SAN-Sync
  - Quantum LTO IV drives
- SAN
  - Dailies
    - DNx HD 36 with preview LUTs
  - VFX
    - Titles
- Resolve
  - Conform
    - DPX files
  - 2K 10-Bit Log
- Grading
  - DCDM
  - DCP

**Editing**
- Avid Media Composer 5.5
  - Synch dailies by assistant
  - DVD PAL for producers & co-producers

**Production**
- CDs
- DCP
- DCDM

**Distribution**
- DVD PAL
- Blu-ray
- Internet
- Digital Screening
- Broadcasting
- Film Screening

**Postproduction**
- Editing
- Grading
- Dailies
- Conform
- R & D
- Back up
- SAN-Sync
- Quantum LTO IV drives
- SAN
- Dailies
- VFX
- Titles
- Resolve
- Grading
- DCDM
- DCP
Production: Les Films d’Ici - Michael Kohlhaas

Workflow by DIGIMAGE

Shoot
- Alexa
- Video Assist
- Dit Monitor

Postproduction
- R & D
  - Creation of customized LUT’s & Look
- Back up
  - SAN-Sync
  - Quantum LTO IV drives
- SAN
- Conform
  - DPX files
  - 2K 10-Bit Log
- Resolve
- Dailies
  - DNx HD 36 with preview LUTs
- VFX
- Titles
- Grading
- DCDM
- DCP

Editing
- DVD PAL
  - For producers & co-producers
- Avid Media Composer 5.5
- Synch dailies by assistant

Film Screening
- Blu-ray
- Internet
- Digital Screening
- Broadcasting
Shoot

- Alexa
  - Video Assist
  - Dit Monitor
  - Dailies External rugged drive
  - Dailies External rugged drive

Postproduction

- R & D
  - Creation of customized LUT’s & Look
- Back up
  - SAN-Sync
  - Quantum LTO IV drives
  - SAN
- Conform
  - DPX files
  - 2K 10-Bit Log
- Dailies
  - DNx HD 36 with preview LUTs
- VFX
- Titles
- Grading
- Mapping in
  - Rec 709
  - (Lut w / Gamma)
- DCDM
- DCP

Editing

- DVD PAL
  - For producers & co-producers
  - Avid Media Composer 5.5
  - Synch dailies by assistant
- Synch dailies by assistant

Film Screening

- Digital Screening
  - Broadcasting
  - Blu-ray
  - Internet

Production: Les Films d’Ici - Michael Kohlhaas
Workflow by DIGIMAGE
**Production: Les Films d’Ici - Michael Kohlhaas**

**Workflow by Digimage**

**Shoot**
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- Dailies External rugged drive
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**Postproduction**
- R & D
  - Creation of customized LUT’s & Look
- Back up
  - SAN-Sync
    - Quantum LTO IV drives
- SAN
- Conform
  - DPX files
  - 2K 10-Bit Log
- Dailies
  - DNx HD 36 with preview LUTs
- VFX
- Titles
- Mapping in Rec 709 (Lut w / Gamma)
- DCDM
- DCP
- Broadcast Master

**Editing**
- Synch dailies by assistant
- Avid Media Composer 5.5
- Dailies
  - External rugged drive

**Film Screening**

**Digital Screening**

**Broadcasting**

**Blu-ray**

**Internet**
Shoot

Alexa

Video Assist

Dit Monitor

Dailies
External rugged drive

Dailies
External rugged drive

Editing

Avid Media Composer 5.5

DVD PAL
For producers & co-producers

Synch dailies
by assistant

Postproduction

SAN

R & D
Creation of customized LUT's & Look

Back up
SAN-Sync
Quantum LTO IV drives

Conform
DPX files

2K 10-Bit Log

Resolve

Grading

VFX
Titles

Mapping in
Rec 709
(Lut w / Gamma)

DCDM

DCP

Mapping in
Rec 709
(Lut w / Gamma)

Broadcasting

Digital Screening

Blu-ray

Internet

Film Screening

Broadcasting

Digital Screening

Internet

Production: Les Films d’Ici - Michael Kohlhaas

Workflow by DIGIMAGE
Postproduction

R & D
Creation of customized LUT’s & Look

Back up SAN-Sync
Quantum LTO IV drives

SAN

Conform
DPX files
2K 10-Bit Log

Resolve

Grading

Dailies
DNx HD 36 with preview LUTs

VFX
Titles

Mapping in Rec 709 (Lut w / Gamma)

DCDM

DCP

BROADCAST MASTER

DVD PAL
For producers & co-producers

Avid Media Composer 5.5

Synch dailies by assistant

Editing

Shoot

Alexa

Video Assist

Dit Monitor

Dailies External rugged drive

Dailies External rugged drive

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Workflow by DIGIMAGE