Digital Intermediate: (typically abbreviated to DI) is a motion picture finishing process which classically involves digitizing a motion picture and manipulating the color and other image characteristics.

Josh Haynie

SVP Operations, Efilm. Member of the Worldwide Deluxe Family

Team Leader: Colorists, Production, Editorial, Data Management, Scanning/Recording, Quality Control, Restoration, Vault, Security, Facilities

13 Years with Efilm

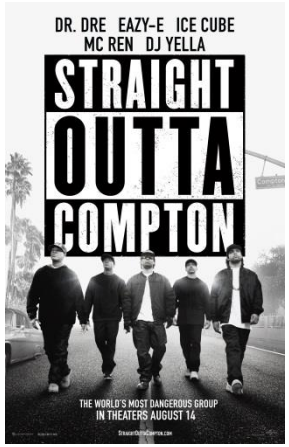
Over 500 Feature Films delivered since 2003

Traditional and emerging Post Production since 1991

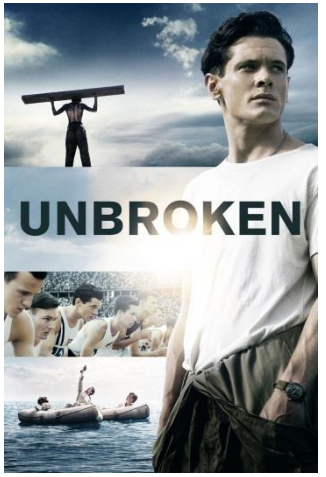
josh@efilm.com efilm.com

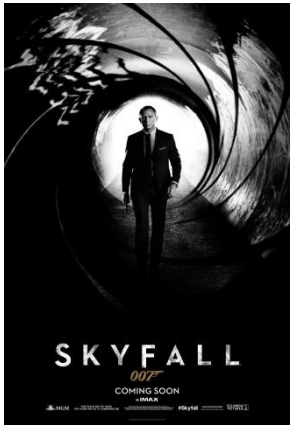
79 Worldwide Locations
6570+ Fulltime Employees
800+ Metadata Technicians
120+ System R+D Developers
30,000 DCP’s delivered per month
60,000 Digital Distribution deliveries per month

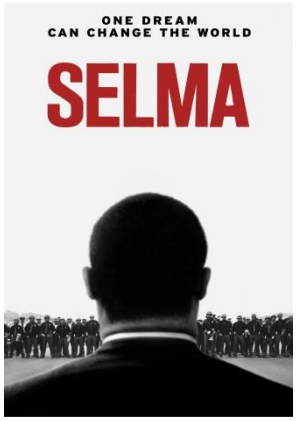
Let us take a look at what we have completed and a glimpse of what are are working on…



Complex Projects







Disney

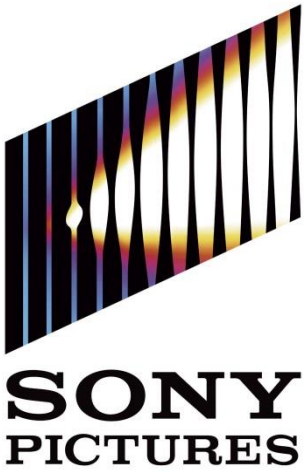
UNIVERSAL
A COMCAST COMPANY

20th
CENTURY
FOX
A NEWS CORPORATION COMPANY

WARNER BROS. PICTURES
A TimeWarner Company

Paramount
100 Years

LIONSGATE


SONY
PICTURES

Metro Goldwyn Mayer
ARS GRATIA ARTIS
TRADE
MARK
MGM.COM

Overall Workflow

Testing

Location Services

Dailies

VFX Pulls/ Shots

Marketing

Assembly

Grading

Render

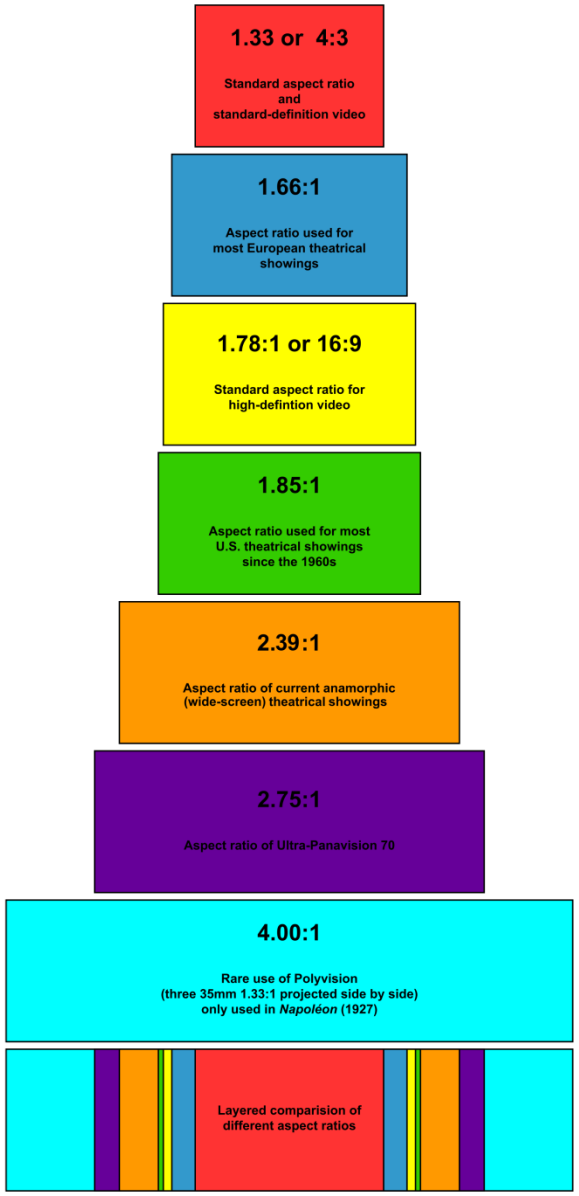
HD/ Blue Ray

HDR

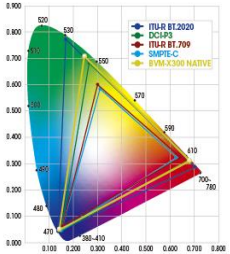
UHD

Large Format

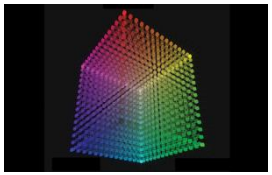
Archiving



Aspect Ratios



Looks and LUT's



Lighting

Room Colors

Costumes

Locations

35mm Film Camera

Canon 5D Digital Camera/SLR

Arri Alexa Digital Camera

Sony F65 Digital Camera

Arri 65 Digital Camera

Imax Film Camera

Go Pro

Phantom Digital Camera

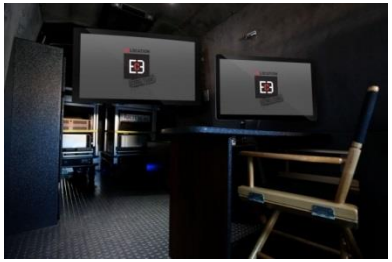
Red Digital Camera

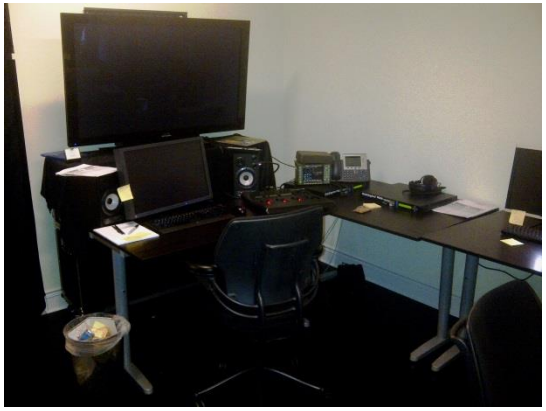
IPhone 6S

Black Magic Digital Camera

Canon C300 Digital Camera

ONLOCATION





EC3: Hollywood, Location, Near Set, WW
Receive, Archive and Verify Data
Grade and QC each day's footage
Create Editorial Media daily
Create and Distribute Studio Screening elements daily

On Set

Colorstream

Camera Mag

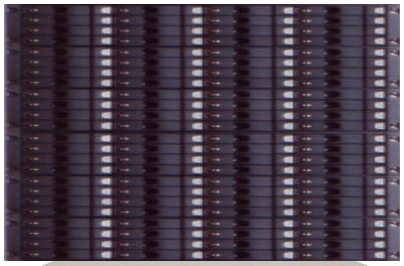
Transfer Station

Audio

I/O Station

Near Set Dailies

Dailies Processing



SAN Storage

EC3 Archive Controller

Deliverables

H.264 Network Deliverable

Editorial

NAS Storage

Multiple LTO Backup

ARRI RAW

DeBayered

Meta Data

VFX Pulls

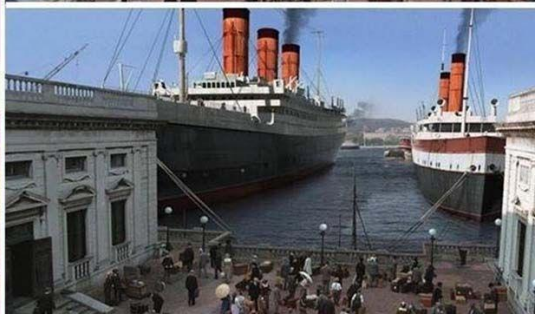
Pulling frames for VFX creation during shoot

Post shoot frame pulling for VFX creation. Multiple plates for each shot

Exclusive Portal Service

Color Management collaboration. Worldwide delivery of elements

Aspera, Signiant, Sohonet, Hot Folder, Tixstream, P2P. Dark Fiber



Marketing/ Trailers

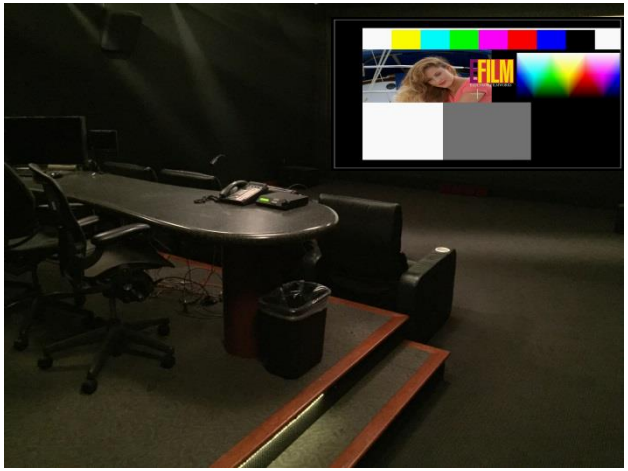
Efilm securely stores all of the original content

Working with the Filmmakers and Studio Executives we assemble and color correct the Theatrical Trailers

One Stop
Secure
Dedicated Resources
Non Stop Passion

Preview Grading

HD cut finished in AVID



Color Correct HD cut @ Efilm

Color corrected HD cut @ Preview Screening

Efilm uses the latest industry leading Color Correction Software:

Baselight Lustre Resolve OSD

AUTODESK.

colorfront

FilmLight

Blackmagicdesign

Final Assembly and Grading

EDL MANAGEMENT
Derive file/pull lists from ALE,EDL, TOC database to create scan/pull EDLs

INPUT
Extract, debayer, & transcode digital files
Scan film from uncut OCN

DUST BUST/QC
Digital hit & dirt fix scans

CONFORM
Assemble data timeline
(from client supplied EDL &reference)

COLOR-CORRECTION
Grade conformed timeline
Render/QC

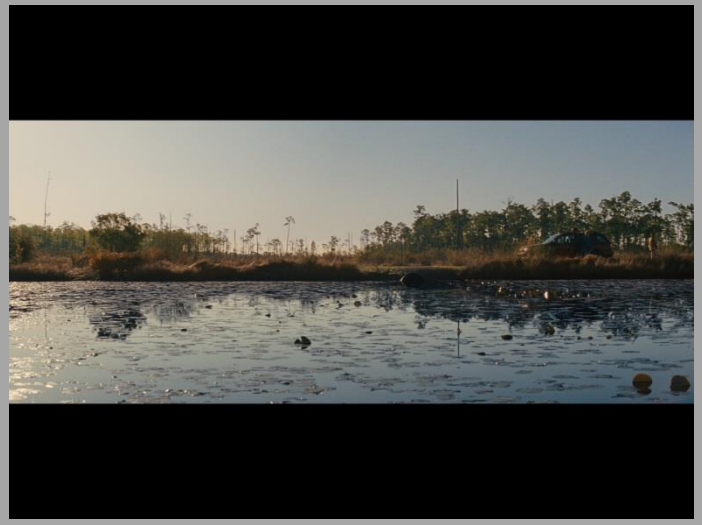
Color Correction

Camera Capture

Camera Capture with RGB Timing

Camera Capture with LUT

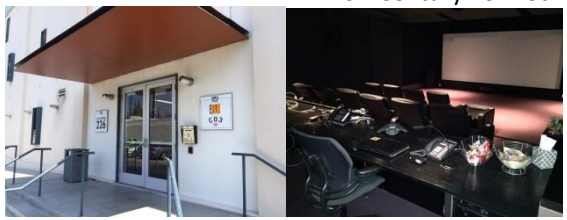
Camera Capture with final color correction

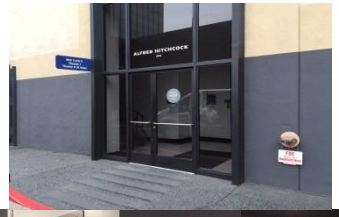


Flexibility

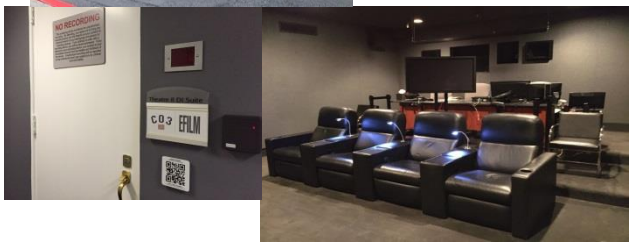
Skywalker Ranch

20th Century Fox Lot





Comcast Universal Lot



Private Dark Fiber Loop in Los Angeles
Multiple Private 10gb hub to the family

Sony Pictures Lot

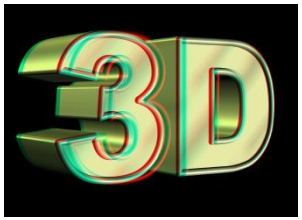
-EXPO/CO3 LA
-CO3 NY
-CO3 Atlanta
-CO3 Detroit
-CO3 Chicago
-CO3 London
-Deluxe Toronto
-Deluxe Vancouver
-DDP Studios Sydney

Deliverables

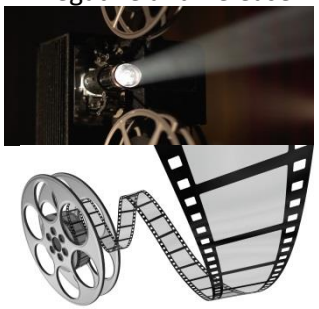
Theatrical

2K & 4K Digital Cinema (DCP)
HDR Digital Cinema
Large Format Cinema

3D DCP



35mm Negative and Release Print



Home Video

HD Rec 709 Video

UHD Rec 709 Video

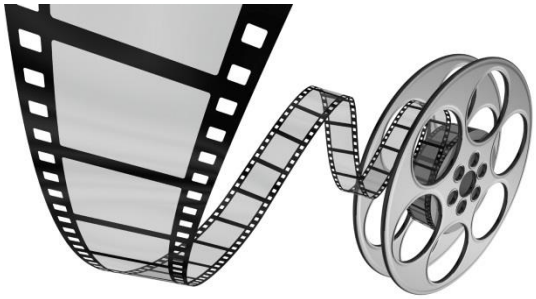
HD 3D Video

HDR Video

Titles
Alternate Scenes
Updated Content

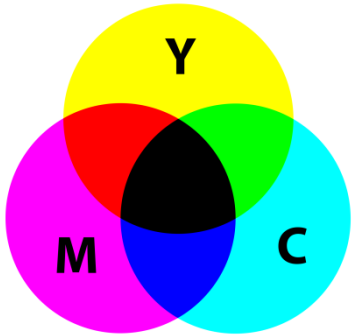
Archival

LTO Archive and Verification
LTO final CC, non CC
LTO of original source
LTO of VFX



35mm Digital Negative
35mm Print

Fire wire Archive and Verification
Fire wire final CC versions
Fire wire of VFX

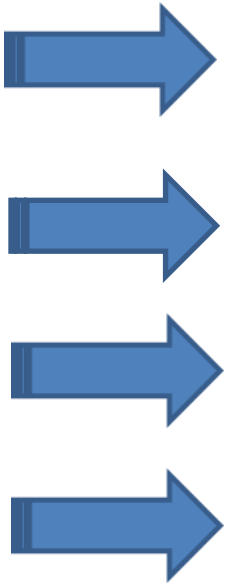


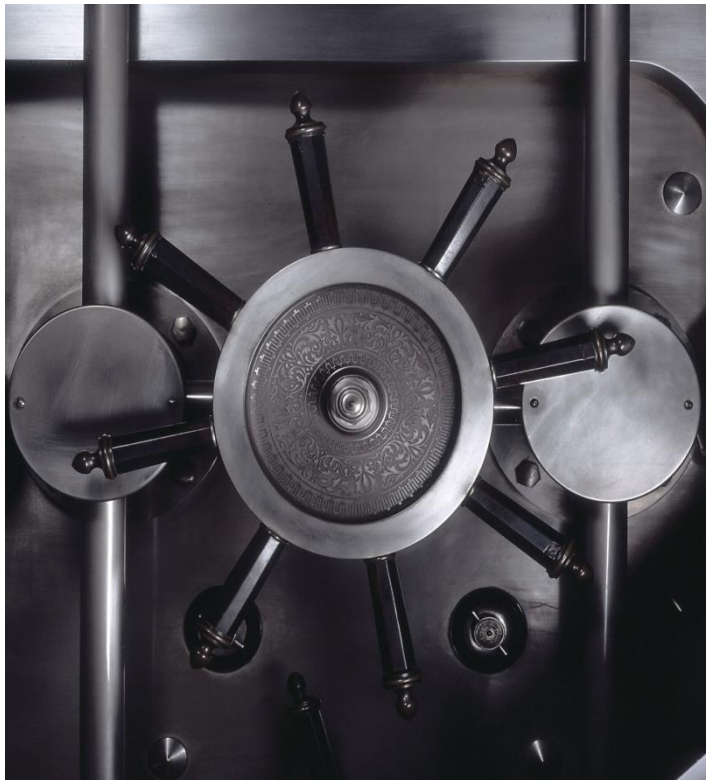
35mm Digital YCM
Prep for scan and recombine

A project is never truly archived until it is verified

Element Return

Inventory, pack and verify all contents are hand delivered to the Studio for Long Term Archiving





Thank You

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