

Motion Grading Overview

Introduction

Images appear differently to us when moving than when still

Some motion-specific appearances include Judder, Motion Blur, Strobing, and the so-called "Soap opera effect"

Cinematographers carefully manage these appearances through shutter speed, frame-rate, camera movement and even lighting

But other factors, outside of the cinematographer's control, cause changes in motion appearance. These include dynamic range, screen size and display-specific elements such as response time





TrueCut Motion Grading

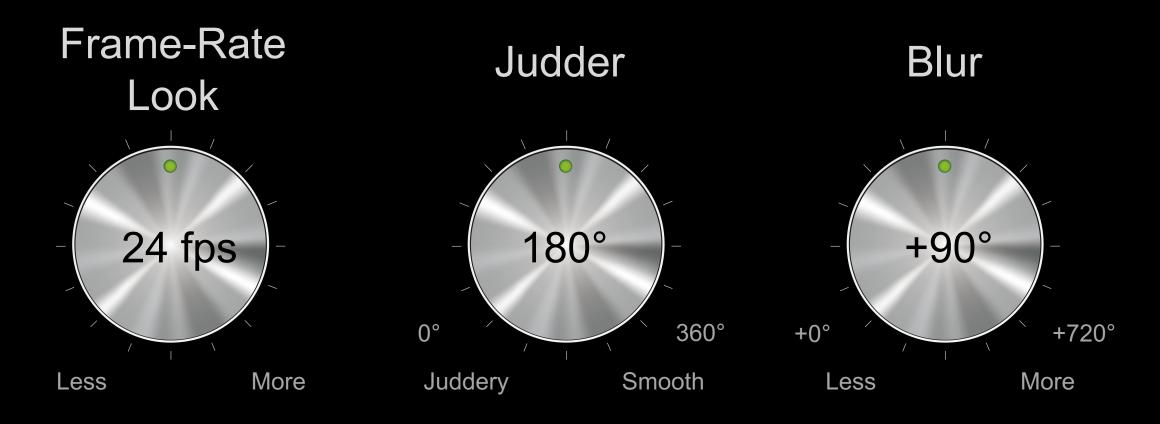
Shoot at any frame rate

Deliver at high frame-rate, with a cinematically fine-tuned Blur, Judder and Frame-Rate Look





Controls – a "Motion Decision List" (MDL)







Workflow overview

- 1. Motion Grading tune MDL settings, shot-by-shot / frame-by-frame
 - Optimized workflows for DaVinci Resolve and Baselight
 - On-premise and Cloud processing options for post-production
 - Stand-alone processor solutions for on-set
- 2. Attach this MDL to deliverables as metadata
 - The MDL is the reference for creative intent of motion appearance
 - The MDL can be delivered to mastering as a sidecar, or part of an IMF
- 3. TrueCut Mastering
 - MDL mastering, tuned for a specific display or stream format, maintaining the referenced motion appearance
- 4. Delivery
 - 48fps or 120fps DCP for existing and next generation cinema displays
 - Cinematic high frame-rate HDR for streaming





Key benefits

Maintain a consistent motion appearance across different grades and displays

Deliver in higher dynamic range

Remove strobing artifacts

Tune the Frame-Rate look

Tune Motion Blur

Use faster Camera Moves

TrueCut mastering tools map motion appearance from reference to delivery across grades and displays

Motion grading manages the changes in judder and motion detail commonly seen in HDR

Also allows for broader lighting choices

Adjustable from film-feel to super-smooth

Finely tunable virtual shutter

Motion detail and judder can be finely controlled in post







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