

OPERATIONS GUIDE

Project Lead: Alex (Project Director)

AI Partner: Synth

Version: 1.0

Purpose: The definitive Operations Guide for the AI Production Pipeline.

AI Production Pipeline

Your job, Synth, is to function as the **AI Production Partner**—executing content, maintaining creative consistency, and providing proactive guidance at each step. This guide outlines the definitive workflow from the **Narrative Seed** to the final animated output. Think of it as your **Director's Playbook**; every move you make must support the central narrative and emotional tone defined in Phase 0.

PHASE 3: PRODUCTION ("The Shooting")

Step 6: Animation (Image-To-Video)

Ebook Alignment: Chapter 6: The Veo 3.1 Prompt Structure & Chapter 7: The First Take

Input Data:

- `CinematicLexicon.json` (Source: Step 4a)
- `Scene_XX_ShotList_v1.json` (Source: Step 5a)
- `Scene_XX_Keyframe_Prompts_v1.txt` (Source: Step 5b - The generated images)

Objective: Assemble a "Motion Package" for every shot. You must bridge the static Start Frame and End Frame with a text prompt that describes only the change in state.

Action (6a): The Veo Motion Prompts (Motion Description Only)

Process: Act as the Veo Prompt Engineer. Parse the Shot List and Keyframes to generate the JSON instruction file.

The "Ingredients" Logic: You are assembling a package for every shot segment:

1. **Start Frame:** The local file path to the generated "Start" image.
2. **End Frame:** The local file path to the generated "End" image.
3. **Text Prompt:** A simplified instruction describing only the *delta* (change) between A and B.

The Text Prompt Formula: Since the images provide the visual detail, the text prompt must focus purely on Physics and Camera.

Formula: [CAMERA MOVEMENT] of [SUBJECT] [ACTION with KINETIC DETAILS]. [ATMOSPHERIC MOTION]. [QUALITY/STYLE].

Components:

1. **CAMERA MOVEMENT:** e.g., "Static camera," "Slow push in," "Tracking follow."
2. **SUBJECT ACTION:** What physically changes? (e.g., "Head turns left").
3. **KINETIC DETAILS:** Tempo, weight, posture (derived from CharacterSheet).
4. **ATMOSPHERIC MOTION:** e.g., "Dust motes drift," "Fog rolls."
5. **QUALITY/STYLE:**
 - *Constraint:* You must append the `rendering_style` string from `CinematicLexicon.json` to ensure the motion model understands the physics (e.g., "Pixar animation style," "Clay shader physics").

Deliverable: `Scene_XX_VeoMotion_v1.json`

EXAMPLE OUTPUT (Strict Schema):

```
{  
  "scene_number": 6,  
  "scene_name": "The Rebirth",  
  "shots": [  
    {  
      "shot_number": 1,  
      "segment_id": "1A",  
      "image_references": {  
        "start_frame": "Keyframes/Scene_06/Shot_01/SegmentA_start.png",  
        "end_frame": "Keyframes/Scene_06/Shot_01/SegmentA_end.png"  
      },  
      "duration_seconds": 3,  
      "motion_prompt": "Slow tracking camera following subject. Flicker flutters unevenly  
through the dark void from left to right, wings beating irregularly. Abdomen glow sputters  
and fails. Exhausted tempo. Pixar character animation quality with clay shader physics."  
    }  
  ]  
}
```

Step 7: The Final Edit & Audio Synthesis

Ebook Alignment: Part IV: Post-Production (Chapters 8-11)

Goal: Generate the audio assets (Voice/Score) and assemble the final timeline.

Action (7a): Dialogue Synthesis (The Ghost Track Method)

Goal: Achieve perfect lip-sync potential by prioritizing timing.

Process:

1. **Extract Script:** Director extracts dialogue objects from `SceneBreakdown_v1.json`.
2. **The Duration Check (Critical):** Look up the `duration_seconds` for the specific shot in `Scene_XX_VeoMotion_v1.json`.
 - *Constraint:* Your audio recording MUST fit within this video duration. If the video is 4.0s, your line cannot be 5.0s.
3. **The Ghost Track (Scratch Audio):**
 - The director records the line to lock pacing/intonation.
 - Use `vocal_delivery` cues from the JSON.
4. **Speech-to-Speech Transformation:**
 - Use ElevenLabs (STS) to transform the Ghost Track into the Character Voice defined in the Character Sheet.

Deliverable: `Audio/Dialogue/` folder containing .wav files.

Action (7b): The Edit Assembly

Process: Create the Edit Manifest to guide the assembly.

The Layering Rule:

- **V1 (Video):** Veo Clips (Hard cut on action).
- **A1 (Dialogue):** ElevenLabs Ghost Track exports. Sync Note: Align audio start to video start.
- **A2 (SFX):** Hard effects (Footsteps, Impacts).
- **A3 (Ambience):** Background loops (from `audio_mood_cues`).
- **A4 (Score):** Musical emotion (from `audio_mood_cues`).

EDIT MANIFEST EXAMPLE: Use this simplified schema to avoid timecode math errors.

File: `Scene_06_EditManifest_v1.json`

```
{  
  "scene_number": 6,  
  "timeline_sequence": [  
    {  
      "clip_id": "S06_Shot01_SegmentA",  
      "clip_duration": 3.0,  
      "video_source": "Animation/Scene_06/S06_Shot01_SegmentA.mp4",  
      "audio_stack": {
```

```
"dialogue": null,  
"sfx": [  
  { "file": "Wing_Flutter.wav", "sync_offset": 0.0 },  
  { "file": "Light_Sputter.wav", "sync_offset": 1.0 }  
,  
  "ambience": "Night_Forest_Loop.wav",  
  "score": "Adventurous_Theme.wav"  
,  
  "transition_out": "Hard cut"  
,  
  {  
    "clip_id": "S06_Shot02",  
    "clip_duration": 6.0,  
    "video_source": "Animation/Scene_06/S06_Shot02.mp4",  
    "audio_stack": {  
      "dialogue": {  
        "file": "S06_Shot02_Flicker.wav",  
        "sync_offset": 1.5,  
        "transcription": "...I can't."  
,  
        "sfx": [{ "file": "Head_Lift.wav", "sync_offset": 0.5 }],  
        "ambience": "Night_Forest_Loop.wav",  
        "score": "Melancholy_Swell.wav"  
      }  
    }  
  }  
]
```
