

# Insight Rover: Validation Feedback Form

**Test Phase:** Beta 1 (Pre-Lock) **Hardware:** Insight Light + Lenovo Legion Go

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## PART A: EVT (Engineering Validation Test)

*Objective: Does the system function? (Pass/Fail Only) If any item here fails, the test is aborted immediately for debugging.*

### 1. Boot & Connection:

- **Pass** /  **Fail** - Legion Go auto-launches Dashboard.
- **Pass** /  **Fail** - Dashboard connects to Ground Unit (Wi-Fi).
- **Pass** /  **Fail** - Video Feed appears automatically.

### 2. Mechanical Function:

- **Pass** /  **Fail** - Left Joystick moves Rover (Fwd/Rev/Turn).
- **Pass** /  **Fail** - Right Joystick moves Gimbal (Pitch/Yaw).
- **Pass** /  **Fail** - Zoom button cycles magnification.

### 3. Recording Logic:

- **Pass** /  **Fail** - SIYI Camera auto-records on boot.
- **Pass** /  **Fail** - Files are retrievable via SD Card.

**EVT Critical Blocker:** If you marked "Fail" above, describe the bug here:

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## PART B: DVT (Design Validation Test)

*Objective: Is the design robust, reliable, and ergonomic? (Rate 1-5) (1 = Design Failure / 5 = Production Ready)*

### 4. Tether Integration (Fiber Optic):

- **Strain Relief:** Did the cable hold up during drag? [1 - Cable pulled out] ... [3] ... [5 - Solid]
- **Bend Radius:** Did the video flicker during turns? [1 - Constant Loss] ... [3] ... [5 - No Glitches]

### 5. Thermal & Power:

- **Heat Dissipation:** After 20 mins, is the rover too hot? [1 - Dangerous/Shutdown] ... [3] ... [5 - Warm/Normal]
- **Battery Sag:** Did voltage drop during max throttle? [1 - Brownout/Cutoff] ... [3] ... [5 - Stable]

### 6. User Experience (Legion Go):

- **Video Latency:** Is the feed fast enough for precision driving? [1 - Unusable Lag] ... [3] ... [5 - Realtime]
- **Ergonomics:** Is the controller setup tiring? [1 - Too Heavy/Awkward] ... [3] ... [5 - Comfortable]

### 7. Build Quality:

- **Vibration:** Does the gimbal shake on rough surfaces? [1 - Unusable Video] ... [3] ... [5 - Smooth]

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## PART C: Release Recommendation

*Based on this session, what is your verdict?*

[ ] **Pass:** Ready for next phase. [ ] **Conditional Pass:** Minor software fixes needed, hardware is good. [ ] **Fail:** Hardware design change required (e.g., cooling, tether mount).

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