SKYETON

Raybird vs Satellites Monitoring

Satellites see the world — but only once a day, only when it's clear, and only in still images.
Raybird sees what satellites miss.

Satellites Have 3 Fatal Blind Spots

The Problem with Satellites

For real-time ground monitoring, each one is a mission-critical failure.

01

Clouds block everything

Optical satellites are completely blind when clouds are present. No image, no data, no awareness — regardless of what's happening below

70%

of Earth's surface cloud-covered at any time

02

They only visit once a day

The best commercial satellites (Planet Labs) revisit the same location every 24 hours. A wildfire can grow 10,000 hectares in that time.

24h

minimum revisit time · best-case scenario

03

Only still photos - no video

Satellites take snapshots. They cannot provide live video, track moving targets, or give operators real-time situational awareness on the ground.

0fps

live video from commercial satellites

Raybird vs Satellite

Surveillance Score

Skyeton
Raybird

85/100

Real-time awareness	LVL: 10
Continuous coverage	LVL: 10
Weather independence	LVL: 9
Response speed	LVL: 9
Resolution / detail	LVL: 8
Cost efficiency	LVL: 9

🔥 Wildfire overnight	S+
🔍 Search & Rescue	S+
🛡️ Border patrol	S
🗺️ Large area survey	B

Planet Labs / Maxar
Satellite

34/100

Real-time awareness	LVL: 1
Continuous coverage	LVL: 1
Weather independence	LVL: 3
Response speed	LVL: 2
Resolution / detail	LVL: 6
Cost efficiency	LVL: 4

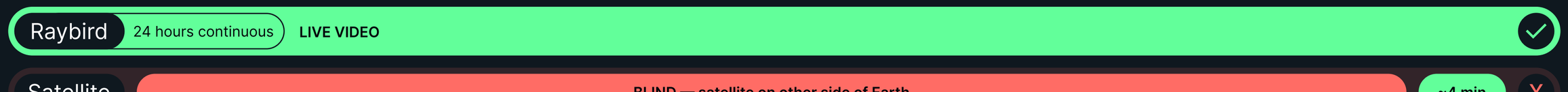
🔥 Wildfire overnight	D
🔍 Search & Rescue	F
🛡️ Border patrol	D
🗺️ Large area survey	S+

A Satellite Visits Once. Raybird Never Leaves

Revisit Time

In a 24-hour window, here's what each platform actually sees.

24-HOUR COVERAGE WINDOW — WHAT EACH PLATFORM SEES



23h 56m
Satellite is completely blind over your target zone per day

28h
Raybird stays on station — zero blind windows in a full mission

360x
More observation time per day — Raybird vs Planet satellite pass

⚠ WHAT CAN HAPPEN IN 24H WHILE THE SATELLITE IS BLIND:

🔥 A wildfire grows from **10 to 50,000** hectares undetected

🚶 A missing person **moves 40+ km** from last known position

🌊 A flood zone **doubles in area** — evacuation routes cut off

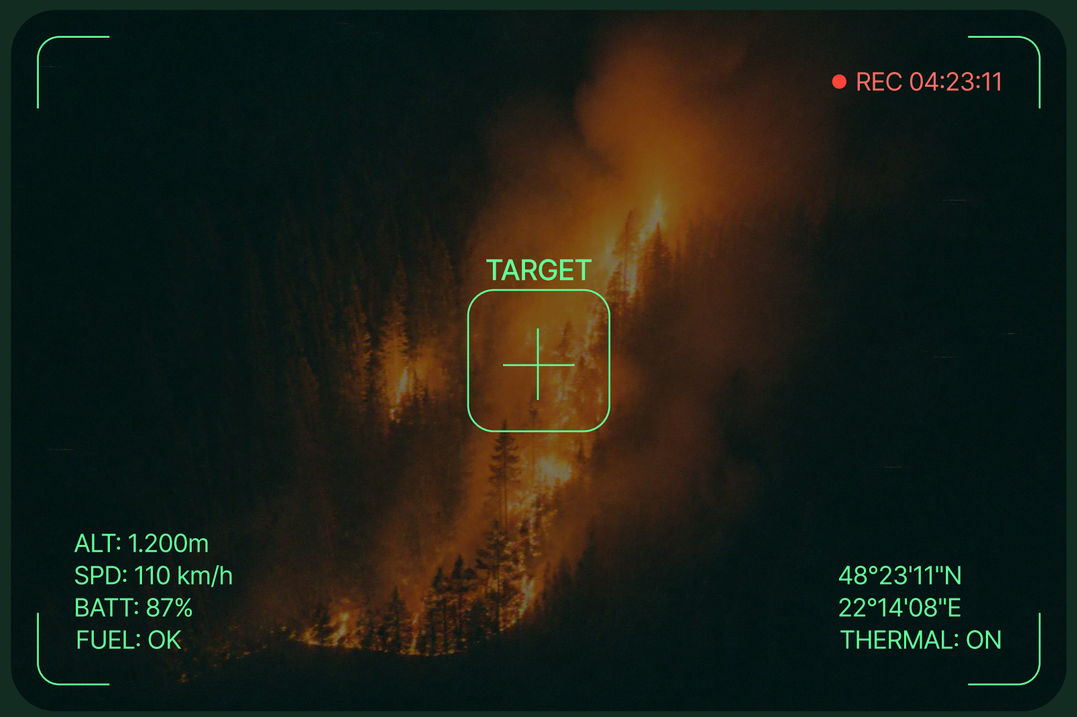
🛡️ Border **incursion goes undetected** for the entire night

Satellites Take Photos

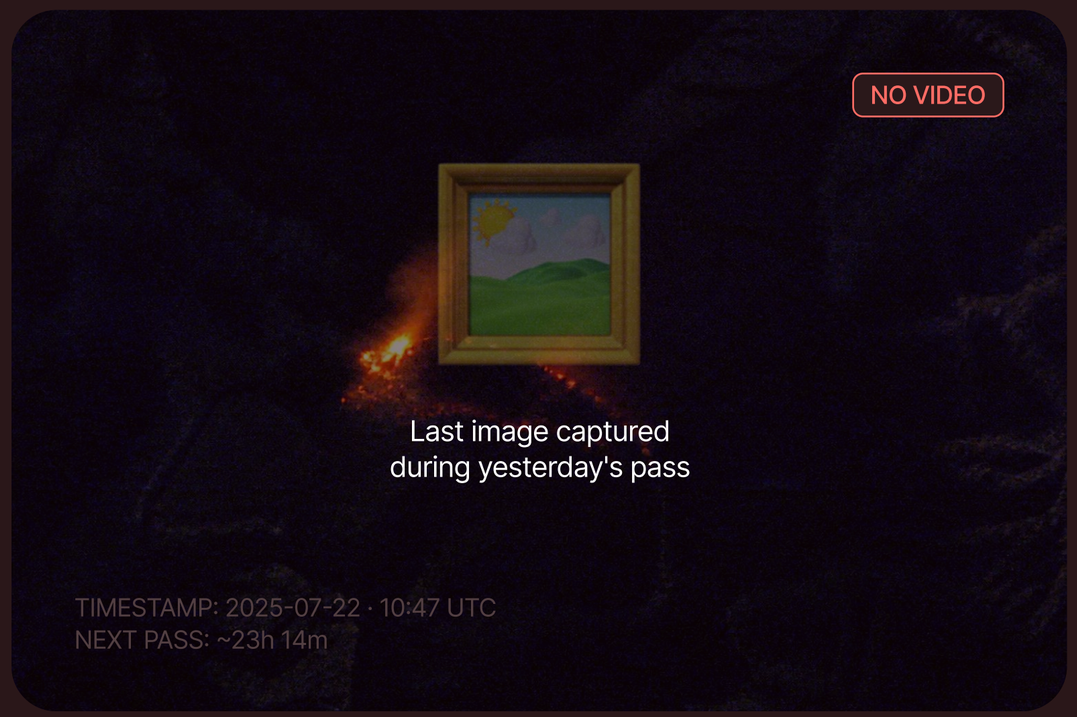
Real-Time Video

● Raybird Streams Live

RAYBIRD · LIVE FEED · EO/IR ●



SATELLITE · LAST IMAGE · PLANET LABS



A photo tells you what happened.
Live video tells you what's happening right now.

Response Time

Hours vs Minutes

When something happens on the ground, how fast can each platform respond?

Skyeton
Raybird

<30 min
time to live feed on screen

Planet Labs / Maxar
Satellite

2–48h
time to usable image

1 **+0 min**
Alert received by operator
Operator on duty gets notification — or Raybird is already airborne on patrol.

2 **+10 to 20 min**
Launch decision + pre-flight
Quick pre-flight check, flight plan filed. If already airborne: 0 minutes.

3 **+20 to 30 min**
Raybird airborne, on course
Drone en route to AOI at 110 km/h.

4 **+25 to 30 min**
Live EO/IR feed on operator screen
Real-time video stream. Operator sees the situation directly no analyst needed.

5 **28h on station**
Continuous coverage begins
Raybird loiters on target. Situation evolves — operator watches it happen live.

1 **+0 min**
Submit tasking request
Log in to platform, specify AOI, submit order — if satellite has capacity

2 **+2 to 24h**
Wait for next orbital pass
Satellite passes overhead only sometimes — wait a few hours to a day.

3 **+24h typical**
Image captured — if no clouds
If clouds present: entire pass is useless. Retry next orbit (+24h).

4 **+1 to 4h**
Downlink + processing + delivery
Image downloaded from orbit, processed, and delivered to your platform.

5 **+30 to 120 min**
Analyst reviews image
Still image: someone must look at it and interpret what happened.

Cost per Mission

What You Pay — and What You Actually Get

Skyeton

Raybird

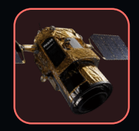
$703/hr

all-in operational cost · live video 28h

Platform amortization	$560/hr
Fuel (AI-95 gasoline)	$3/hr
Crew (2 operators)	$80/hr
Maintenance	$40/hr
24h mission total	~$16,900

What $17K per 24h buys you

- 📽️ 28h continuous live EO/IR video
- 🎯 Real-time target tracking
- 🌙 Night thermal imaging included



Planet Labs / Maxar

Satellite

$10–50/k

per month subscription · still images only

Planet Labs basic	$10,000/mo
Planet + analytics tier	$25,000/mo
Maxar tasking (0.3m)	$50,000+/mo
Per image (tasked)	$500–$5,000
Emergency tasking surcharge	+200–400%

What $25K/month buys you

- 📽️ 1 still image per day — if no clouds
- ⏳ 24h+ delay from event to image
- 🚫 No live video, no moving targets

Contact the Skyeton team to discuss your mission requirements and system configuration

📧 Contact Us → skyeton.group/contact

🌐 Explore Product → skyeton.group/product