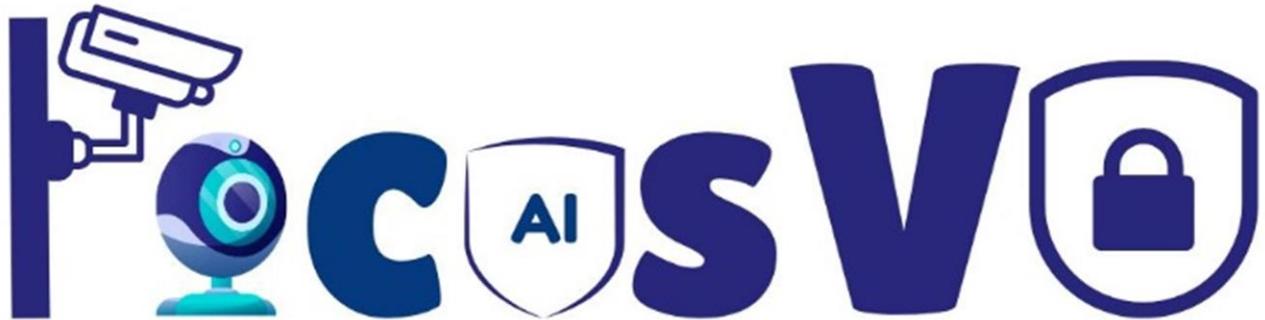


"The Power of Intelligent Vision"



Detect. Decide. Defend, Instantly



The Eye of Future Security

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FocusVU for Forest Protection & Wildlife Security

Overview

India's forests and wildlife reserves face growing threats from illegal logging, poaching, forest fires, and unauthorized human activity. Traditional patrolling systems are limited by manpower, terrain, and reaction time. FocusVU.ai introduces a scalable, AI-integrated surveillance platform designed specifically for forest environments—empowering forest departments with real-time detection, pre-emptive alerts, and actionable intelligence.

1. FOREST FIRE DETECTION & RESPONSE

Problem Statement

- Delay in detecting early-stage fires due to remote terrain
- Manual patrols are insufficient for large zones
- No automated alert mechanism linked to command center

AI-Powered Solution Table

Area	No. of Cameras	Key AI Features
Watch Towers	4	Smoke/Flame Detection, Wind-Spread Prediction
Hilltop Nodes	4	Thermal Vision, Fire Line Perimeter Monitoring
Camp Office Feed	1	Alert Dashboard, Location Tagging

Advantages

- Real-time detection of small fire outbreaks
- Reduced dependency on ground personnel
- Coordinates with GIS for exact fire location mapping

ROI & Environmental Impact

- Saves ₹20–50 lakhs annually in damage prevention
- Reduces reliance on fire teams for early-stage intervention
- Preserves biodiversity and vegetation health

2. POACHING & WILDLIFE MONITORING

Problem Statement

- Poachers often bypass traditional check posts and patrol zones
- No visibility in night or remote interiors of forests
- Wildlife movement patterns remain undocumented for protection

AI-Powered Solution Table

Area	No. of Cameras	Key AI Features
Watering Holes	4	Human Detection, Poacher Alert, Animal Counting
Buffer Zone Trails	6	Motion Detection, Night Vision (IR/Thermal)
Check Posts	2	Face/Vehicle Recognition, Alert for Blacklisted IDs

Advantages

- Early warning system against poaching attempts
- Tracks endangered species and intrusion timelines
- Reduces false alarms via wildlife vs human recognition models

ROI & Security Gains

- Prevents illegal poaching fines and wildlife loss (₹10+ lakhs/case)
- Reduces patrol costs through focused AI monitoring
- Supports camera trap data for wildlife census and ministry reports

3. ILLEGAL LOGGING & RESOURCE THEFT

Problem Statement

- Timber theft and sand mining occur beyond visibility of forest staff
- Vehicle movements at night go undetected
- No documented proof for action or prosecution

AI-Powered Solution Table

Area	No. of Cameras	Key AI Features
Logging Paths	4	Unauthorized Entry Detection, Vehicle Tracking
Forest Borders	4	License Plate Recognition, Object Movement Analysis
Depots/Checkpoints	2	Identity Validation, Tamper Alerts

Advantages

- 24x7 surveillance even in remote terrain
- Helps file FIRs with video evidence
- Monitors legal vs illegal vehicle movements

ROI & Financial Benefits

- Prevents timber loss worth ₹15–25 lakhs annually
- Boosts forest revenue by discouraging illegal trade
- Improves transparency in forest transport operations

4. RANGER SAFETY & INTELLIGENT PATROLLING

Problem Statement

- Rangers lack real-time backup or visibility from base station
- Injuries or conflicts with armed poachers pose serious risks

AI-Powered Solution Table

Zone	No. of Cameras	Key AI Features
Patrolling Routes	4	Human Tracking, Distress Gesture Recognition
Camp/Rest Areas	2	Entry Logs, Emergency Alert Buttons
Drone Integration	1 (Live Feed)	Overhead Surveillance & Thermal Detection

Advantages

- Adds a safety net to patrolling operations
- Enables quick dispatch of backup support
- Drone integration for inaccessible terrain

ROI & Human Impact

- Reduces ranger injury risk by up to 70%
- Builds data-driven patrol routes
- Improves morale, accountability, and rapid incident response

FocusVU.ai Benefits for Forest Departments

- Custom-trained AI for forest-specific threats
- Solar-powered, low-bandwidth deployment options
- Real-time alerts via app/SMS/email for ground staff
- Integration with forest GIS systems and reporting dashboards
- Scalable from small reserves to national parks

Conclusion

FocusVU.ai revolutionizes forest security and ecological preservation by automating surveillance, enabling early detection, and reducing reliance on human monitoring. Whether defending against fire, poaching, or theft, our solution brings visibility, intelligence, and action-readiness to the forest frontier.

To learn more or schedule a field demo, visit: www.FocusVU.ai