



YARN MESH

# Yarn Mesh Trailcams

## Revolutionising Remote Monitoring with Real-Time Data and AI-Driven Insights

Traditional trail cameras require personnel to physically retrieve SD cards and manually analyse captured footage. This process is not only labour-intensive but also results in delayed access to critical information. The AI-powered mesh-connected trail cam eliminates these inefficiencies by providing real-time data and intelligent insights, transforming the way organisations monitor remote environments.

### Real-Time Data for Immediate Decision-Making

With AI-powered trail cameras, stakeholders receive instant updates on detected activity, enabling timely responses. Decision-makers no longer have to wait for field teams to retrieve SD cards, reducing delays and ensuring swift action when needed.

### Just-in-Time Maintenance

By leveraging real-time status reports and predictive analytics, organisations can shift to a just-in-time maintenance approach. Alerts for battery levels, connectivity issues, or potential camera malfunctions enable proactive servicing, minimising downtime and maximising operational efficiency.

### Elimination of Guesswork

Traditional monitoring methods often involve uncertainty and estimation. AI-powered trail cameras provide high-resolution imagery and intelligent analysis, removing the guesswork from critical decisions. Users can rely on data-driven insights to assess risks, identify patterns, and optimise their response strategies.

### Targeted Efforts with AI-Powered Detections

The AI-driven detection system filters and categorises relevant activity, reducing the volume of irrelevant footage and false alarms. This allows teams to focus their efforts on meaningful detections, improving efficiency and reducing wasted resources.







YARN MESH

## Empirical Data to Drive Strategic Decisions

Access to real-time, empirical data allows organisations to make informed decisions based on actual observations rather than assumptions. Whether monitoring wildlife patterns, security threats, or environmental changes, accurate and up-to-date data ensures precision in planning and execution.

## Conclusion

The AI-powered mesh-connected trail cam is a game-changer for remote monitoring applications. By eliminating manual data retrieval, providing real-time insights, and leveraging AI-driven analytics, it enhances efficiency, accuracy, and responsiveness. Organisations that adopt this technology will gain a competitive edge by making smarter, faster, and more effective decisions in the field.

## Help Shape the Future of AI-Powered Detection

At Yarn Mesh, we believe innovation is strongest when we build it together. By becoming an early adopter, you're not just using cutting-edge technology—you're helping refine and shape the most advanced detection system for New Zealand's landscapes.

All images shown are captured from real Yarn Mesh AI TrailCams, with metadata visualised for illustrative purposes only. AI image processing and automated classification will go live for customers in Q3 2025. Early adopters play a vital role in helping us build and refine these models with real-world data—together, we're shaping smarter, more reliable detection technology for everyone.

Join us at the forefront of innovation. By deploying Yarn Mesh AI TrailCams today, you'll help shape the next generation of AI-powered detection—bringing smarter, faster insights to the field for everyone.







YARN MESH

## Executive Summary

Yarn Mesh AI TrailCams are a breakthrough solution for remote monitoring, predator control, and environmental management. Developed over 18 months of dedicated research, development and field testing, sitting atop a combined 10 years of research and development to create the Yarn Mesh technology stack that powers these new devices, they combine high-resolution imagery, real-time data transfer, and evolving AI-powered insights to deliver smarter, faster, and more effective decision-making in the field.

By eliminating manual data retrieval and enabling automated image classification (going live in Q3 2025), Yarn Mesh AI TrailCams transform monitoring efficiency across diverse landscapes. Whether deployed for Predator Free 2050 initiatives, conservation efforts, or large-scale farm management, they empower organisations to act quickly and strategically.

The Yarn Mesh network delivers powerful bandwidth and reliable connectivity up, down, around, and over — ensuring data is captured and transmitted exactly where and when you need it. Combined with proactive maintenance alerts, seamless over-the-air updates, and integration with the IMS Enviro Manager platform, this solution drives measurable improvements in productivity, environmental outcomes, and operational resilience.

By partnering with Yarn Mesh today, early adopters have the opportunity to shape and refine AI models that will set the standard for New Zealand's predator monitoring and environmental management technologies of the future.

