CATTLEEYE

Automomous Livestock Monitoring

Engineering for a better world.

GEA.com

INNOVATIVE ENHANCEMENT OF YOUR HERD MANAGEMENT

Artificial intelligence supports animal health, performance & welfare.

Why CattleEye?

Lameness is a common issue on dairy farms with far-reaching consequences, including increased veterinary costs, reduced milk production and decreased animal welfare. Hoof diseases and associated lameness are the third most common cause of premature culling of dairy cows, making them a significant financial risk factor for farms.

Using CattleEye allows you to take countermeasures at an early stage. The system uses advanced artificial intelligence to monitor both Locomotion and Body Condition Score (BCS). By analyzing video footage captured by a camera, CattleEye identifies cows needing hoof trimming and treatment, helping manage lameness levels effectively. Additionally, tracking BCS provides insights into each cow's nutritional needs, allowing for timely feed adjustments.

This dual functionality improves herd health, performance, and overall animal welfare while reducing the carbon footprint, supporting next-generation farming.

CattleEye is an advanced autonomous livestock monitoring platform.

For operation, the camera is installed in the barn near a selection gate or a milking system with ID.

Artificial intelligence algorithms in the cloud start learning how to uniquely identify cows in the herd and monitor Lameness and the Body Condition Score.

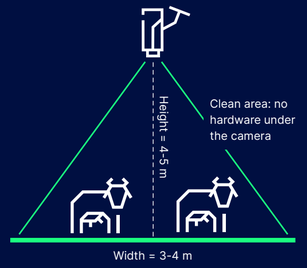
On-farm setup with simple requirements

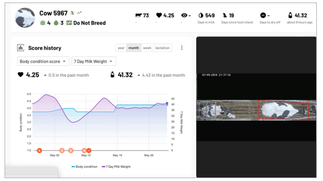
CattleEye can be integrated into various barn layouts and different milking systems. The software is compatible with GEA milking technology as well as with milking and herd management systems from other manufacturers.

At least 1 MBps internet connection to be able to up-load video data to the cloud.

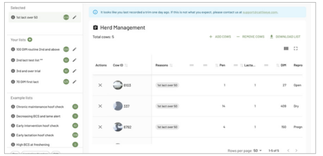
A security camera mounted over the exit returning lane, connected to the internet.

A dairy parlor ID system to facilitate automatic enrollment of your herd and improve identification accuracy.

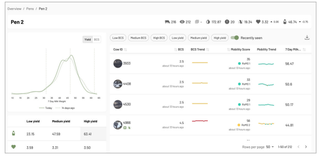




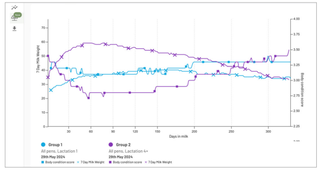
Analyse individual cow BCS and Locomotion score over time
You can analyse Locomotion Score, 7-day milk yield and BCS over time. Other data points such as days in milk and breeding status are displayed along with a video of the most recent footage of the cow.



Create optimized hoof trimming lists
You can select from various default lists or build your own customized hoof trimming lists. This allows you to focus foot trimming efforts on the cows that need it most and lower the lameness levels on your farm.



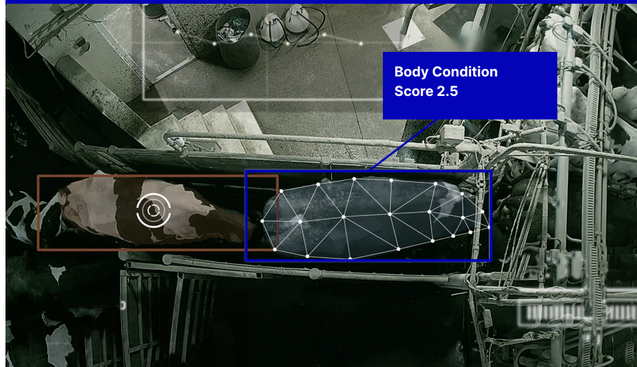
Analyse intergroup behavior
This report shows historic changes in BCS and milk yield and highlights individual cows that are driving up or dragging down performance of that group.



Track Body Condition score vs milk across multiple lactations
Create snapshots in time of pens and/ or lactations in the herd showing BCS and milk yield against days in milk. The insight allows you to see if specific groups could be losing too much Body Condition and the impact of nutrition changes or other management changes.

CATTLEEYE INSIGHTS-APP

The GEA CattleEye Insights-app is accessible on your smartphone, tablet, laptop or desktop PC. It provides herd-level metrics, and allows you to drill down into individual cows' lameness histories. You can even watch videos of each cow walking past the camera. The app also enables you to export all available data to a CSV file for further analysis and trim list creation, ensuring comprehensive herd management.



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