Optimizing your LSMS™ Custody Module Experience

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ABOUT

animalEYEQ[™] develops enterprise grade solutions that help large-scale producers run operations that are more efficient, more compliant and more accountable

SOLUTION

LSMS[™] Custody Module automated livestock counting management and accountability system

FEATURES

Automated counting

Shipment data digitisation

Managed workflows for daily reports and dispute management

Business intelligence for vendor performance management

Objective

This document provides guidance on optimizing your LSMS[™] Custody Module experience.

Intended Audience

Personnel in livestock handling, IT and maintenance departments.

Background

The Client plays a critical role in ensuring the LSMS[™] Custody Module's performance and reliability, as it is an on-premise solution with recommended external conditions for optimal functionality.









Good Flow



SOP Compliance







Consistent electricity

LOCATION

A fully enclosed and indoor location is optimal for the AEQ Counting Technology, as the lighting can be controlled to be sufficient and uniform.

An indoor location that is not fully enclosed can also be monitored, although additional shade and lighting may be needed to mitigate the impact of sunlight and other external lighting creating reflection or glare within the camera Field of View (FOV).

Outdoor counting can be challenging due to many external variables. It also requires that the Client accept the limitations and commit to continuous management of external factors.

"If you fail to plan, you are planning to fail."

Benjamin Franklin

LIGHTING

Sufficient lighting is critical for proper visual contrast between animal and ground.

Uniform lighting across the camera FOV is also important. Brighter lighting outside the counting box can cause the camera to adjust the brightness levels in the counting box, negatively impacting the contrast between animal and ground.

FLOW

The AEQ Counting Technology works best when there is a constant flow of animals through the counting box. If animals are stalled in the counting box, they tend to climb over each other and mill in and out of the counting box which can be challenging to track.

In addition to flow management protocols, good flow can be affected by race design (e.g. narrower races can mitigate the impact of milling).







Good Flow



SOP Compliance



maintenance





Consistent electricity

SOPs

It is important that on-site personnel comply with operational protocols, so as to ensure high and consistent accuracy. These can include SOPs on flow management, lighting management, maintenance and system usage.

MAINTENANCE

animalEYEQ[™] provides all Clients with an equipment maintenance protocol document. Regular inspection, cleaning and maintenance can a long way in maintaining equipment lifespan and ensuring high and consistent counting accuracy.

Clients may mitigate equipment breakdown by keeping a reserve stock of cameras, tablets and other lower cost items on-site, or purchase a high-availability plan for a quick swap-out of the higher cost servers in case of breakdown.

External factors were responsible for more than 75% of inaccuracies in machine counting at major processors in the US and Australia.

CONNECTIVITY

Clients will need to ensure continued VPN access for the on-premise equipment, as the LSMS[™] Chute Module requires internet connectivity to allow the Client's off-site personnel to access on-site data as well as for animalEYEQ to perform system maintenance.

As the LSMS[™] Chute Module resides on the Client network, the Client's IT department will need to maintain the assigned IP addresses and assign sufficient bandwidth.

ELECTRICITY

Clients will need to ensure continued electrical supply to all equipment. animalEYEQ[™] provides a checklist for a system reboot, for use in the event of a power outage. Clients may wish to consider putting the servers on an UPS.



TRUST your data with highly accurate and consistent counting



BOOST SAVINGS with streamlined manpower and operations



IMPROVE PERFORMANCE with actionable intelligence on vendor performance

CONCLUSION

Most Clients already meet the basic requirements of the LSMS[™] Custody Module for good performance, as exemplified by counting accuracies exceeding 99.5% at major processors in the US and Australia under "as-is" conditions* and further improvements are possible with basic staff training.

Do contact your animalEYEQ[™] rep for a friendly consultation on how we can optimize your LSMS[™] Custody Module experience.

* experience may vary depending on the compliance of the Client's site with recommended requirements

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