

## Case study

# Lantronix and Milestone Integration with CamStreamer Apps

## About the Project

We have prepared an integration demonstrating how **data** can be collected from a **Lantronix industrial external device** server and displayed as a graphics overlay, directly in the captured footage of the camera, using only **Camstreamer in-camera applications**.

At the same time, data can be sent as a generic event to a [Milestone VMS](#).

## Technical solution

Any device with **RS232/RS422/RS485 serial port** can be connected to the **Lantronix UDS2100** server. From that point on it is accessible via the local LAN. In our case, we connected a **digital scale G&G E6000YA** in this way.

The other part is the [AXIS M1135 network camera](#), where we installed 2 in-camera apps - the first is the **CamScripter App**, which is an application directly in the camera that allows you to run **custom applications**.

We also prepared a micro-app for **CamScripter App** in **Node.js** that can read the current **measured weight from the scale** (connected to the Lantronix server) directly from the camera, in **real-time**.

This **data** is then sent by the micro app to **2 destinations**, the first being the **CamOverlay app** and the second, the **Milestone VMS**, where bookmarks are created, enabling easy **filter** and **search** criteria in the recordings.



## List of Supplies

Hardware	<a href="#">Lantronix UDS2100</a> (facilitates the connection of up to 2 devices via serial RS232/RS422/RS485 ports)
	<a href="#">Digital scale G&amp;G E6000YA</a> (can be any piece of equipment with a serial port)
	<a href="#">AXIS M1135 network camera</a> (can be any compatible AXIS camera with an ARTPEC-5/6/7/8 processor)
Software	<a href="#">CamScripter App</a> (in-camera app which allows you to run scripts in an Axis network camera)
	<a href="#">Lantronix Scale reader micro-app for CamScripter App</a> (micro-app which can fetch data from Lantronix and send them to CamOverlay App and as generic events to Milestone VMS)
	<a href="#">CamOverlay App</a> (in-camera app which displays the real time data from the Lantronix in the video image)



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## How Does This Work?



**milestone | XProtect®**

### About Milestone XProtect® VMS

**Milestone XProtect®** is the industry-leading **video management software (VMS)** designed for installations of all shapes and sizes.

Thanks to **Camstreamer's in-camera ACAP apps**, for Axis network cameras, you can send a **string to trigger generic events** like a **bookmark** in the Milestone VMS. A real example is described in this case study.

## About Lantronix UDS2100

Lantronix is a global provider of **intelligent hardware** and other hardware and services. **External device server UDS2100** enables users to connect, manage and control just about **any piece of equipment with a serial port** from virtually anywhere over Ethernet or the Internet.

Thanks to **CamStreamer apps**, in-camera ACAP apps for AXIS network cameras, **you can fetch data** from any device connected to this device server what is described here, in this case study.



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## The Result

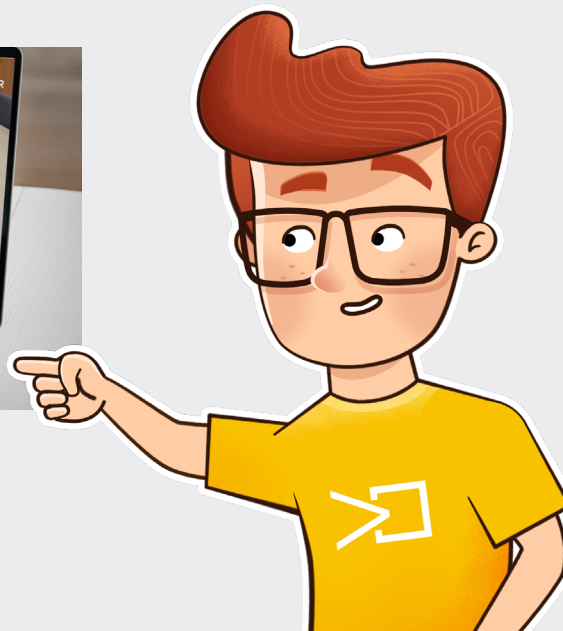
This is a **very simple solution** to display external data directly in the video - this is practical for many reasons - **visual control at the monitoring center**, data is sent directly as part of the video image, everything is processed directly in the camera, so **no server or other equipment is needed**.

This demonstrates that you can display virtually **any data directly in the video and even work with it** - the script that handles everything is very simple and we can **customize it for you**.

This solution for **Lantronix UDS2100**, **digital scale G&G E6000YA** and **Milestone** is a ready-made micro application and available at [CamStreamer GitHub](#) for your use.



Watch the Video



[camstreamer.com/resources/lantronix-milestone](https://camstreamer.com/resources/lantronix-milestone)



If you have a request for a **tailor-made micro-application** to be created for you, please don't hesitate to **contact us**:

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