

USB thermometer data in video & triggering events to AXIS Camera Station using AXIS D3110 Connectivity Hub

Mission

This time we will show you how to easily **display live data from a USB thermometer** in an AXIS camera's video feed and how to send these **temperature data to AXIS Camera Station** as metadata. All you need is AXIS D3110 Connectivity Hub and CamStreamer ACAP applications.

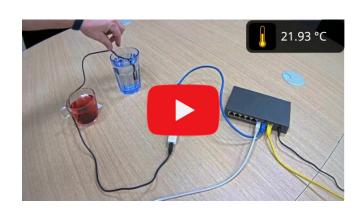
How does it work?

Firstly, **AXIS D3110 Connectivity Hub** loads the data from the thermometer via USB port and the data is processed inside using **a micro app within the CamScripter App**. The CamOverlay App – running onboard the AXIS P1375 Network Camera – then displays live temperature values graphically in the video feed.

You can send **temperature data as an event to VMS** (AXIS Camera Station) and use the data to filter Recordings.

Result

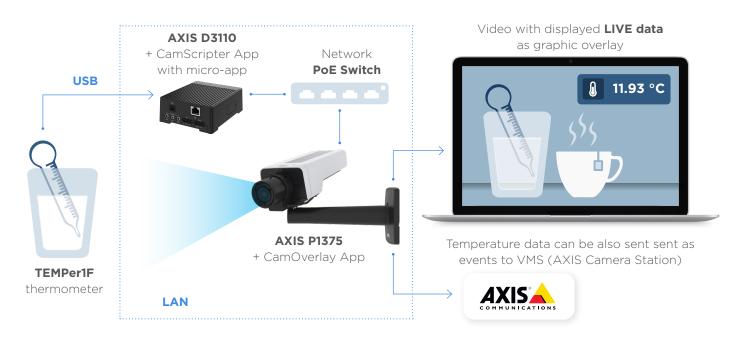
This is an **extremely useful** and **cost-effective thermometer integration** that can be applied across many scenarios and supports various graphics styles. Additionally, it's **simple to set up and use**.



List of Supplies

Hardware:	AXIS P1375 Network Camera
	AXIS D3110 Connectivity Hub
	PCsensor USB thermometer with external temperature sensor
Software:	TEMPerf1 Sensor micro app
	CamOverlay App
	CamScripter App

Find more details on page 2.





USB thermometer data in video & triggering events to AXIS Camera Station using AXIS D3110 Connectivity Hub



AXIS D3110 Connectivity Hub

- Enables sensor and audio integration into network video systems
- USB and RS485/RS422 serial ports
- Eight configurable I/Os, audio in/outs
- Allows you to integrate a broad range of non-visual sensors
- MSRP \$379

PCsensor USB thermometer with external temperature sensor

- Measurement device using a USB port to connect
- External waterproof sensor
- Range of measuring: from -40°C to +125°C | from -104°F to +257°F
- MSRP ca. \$15

Axis network camera (e.g., AXIS P1375)

- Use any compatible camera from Axis Communications with ARTPEC-5/6/7/8 processor
- The Axis camera portfolio can be found att axis.com
- Don't forget to check the compatibility with CamStreamer apps
- MSRP \$699 (AXIS P1375)

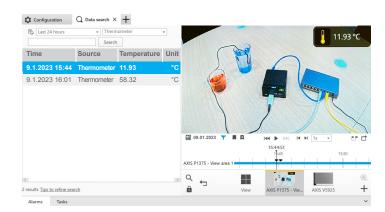
CamStreamer apps

- <u>CamScripter App</u> allows to running of micro apps (Node.js script) inside the AXIS D3110 Connectivity Hub and fetch data from an external device (such as thermometers)
- The ready-made micro app (Node.js script) tailored for this specific USB thermometer is available for free just download the micro-app from GitHub
- <u>CamOverlay App</u> is an in-camera app that generates dynamic graphic overlays and displays them directly in Axis camera's video stream in this case, with real-time data from the thermometer
- MSRP \$498



Continue to the next page for Setup Guide.

AXIS Camera Station interface with list of events from the thermometer

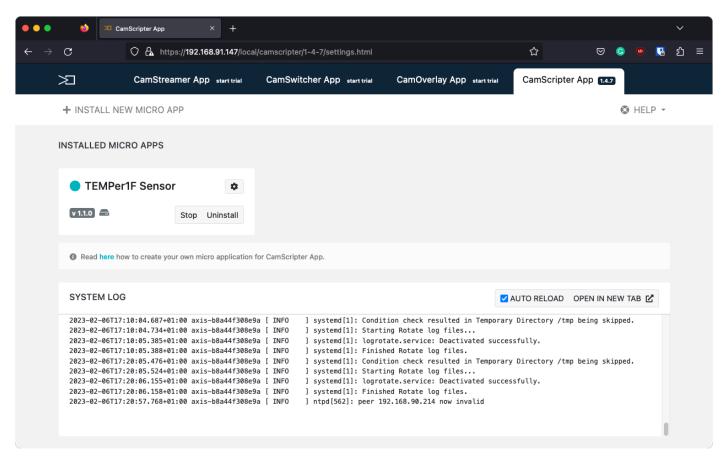




USB thermometer data in video & triggering events to AXIS Camera Station using AXIS D3110 Connectivity Hub

Setup Guide

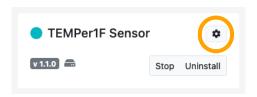
Open your internet browser and type in the IP address of your AXIS D3110 Connectivity Hub to open CamScripter App UI.

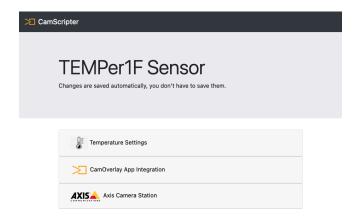


Upload the TEMPer1f Sensor package (available for free on GitHub).

Click "Start" to launch the micro application.

To set up the thermometer, open CamScripter App UI in your browser and access the TEMPerIf Sensor via the gear button next to the installed thermometer package.







USB thermometer data in video & triggering events to AXIS Camera Station using AXIS D3110 Connectivity Hub

Temperature Settings

 Basic settings of USB thermometer - choose Celsius or Fahrenheit as a unit

CamOverlay App Integration

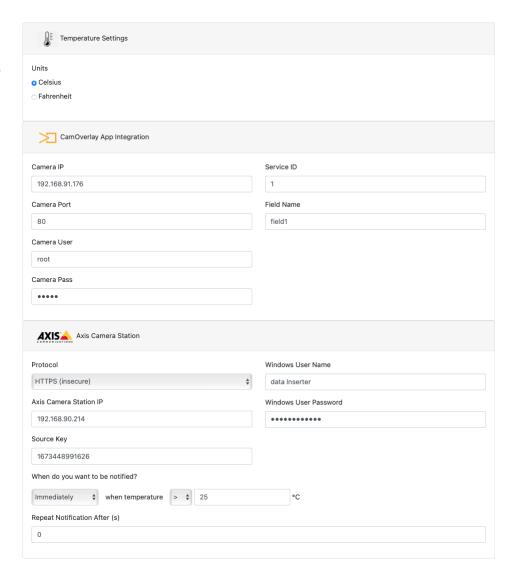
 Set up a connection to an Axis network camera with CamOverlay App onboard

 a graphic overlay with the real-time temperature will be displayed in the camera video

Axis Camera Station

- Set up a connection to an Axis network camera with CamOverlay App onboard

 a graphic overlay with the real-time temperature will be displayed in the camera video
- Set up a connection to AXIS Camera Station VMS, where measurement events will be sent



If you have a request for **a tailor-made micro-app**, we will be happy to create it for you. Just contact us: support@camstreamer.com

camstreamer.com/resources/ integrations

