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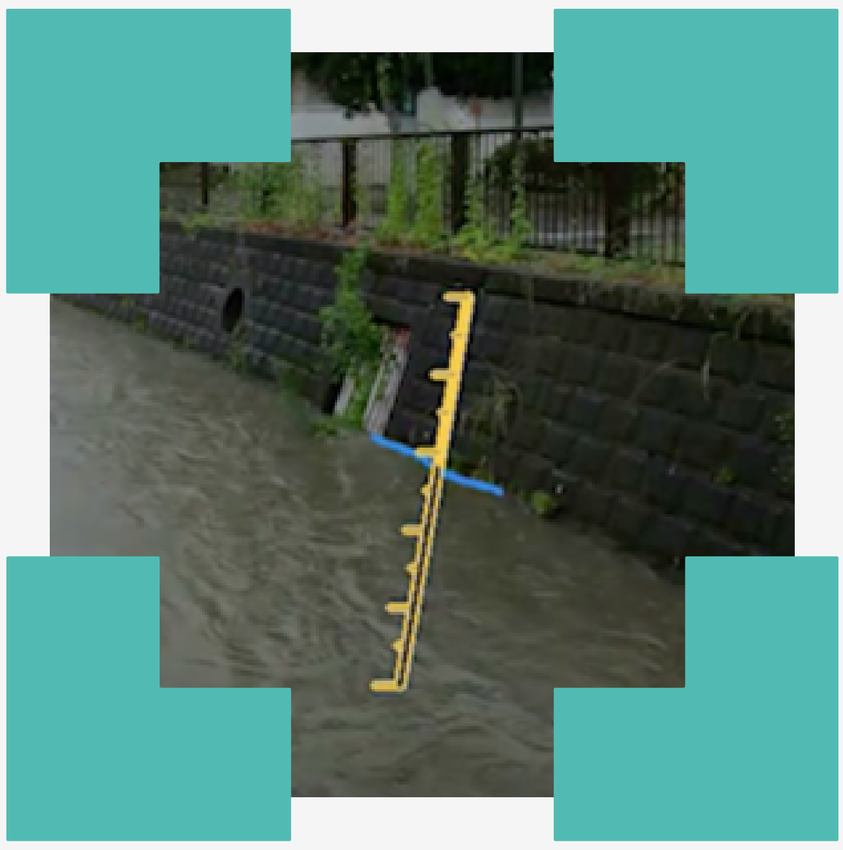
Flood Detection

Flooding events happen regularly around the world and can cause serious harm to people and property. Real-time data & alerts about water level can help reduce or prevent flood danger and damage.

Noema uses smart cameras and computer vision to monitor water levels and alarm for flooding events in bodies of water and flood plains, by applying water fragmentation and virtual rulers. Customizable alarms are sent to operators in real time, during water-level-change and flooding events.



Noema’s Flood Detection Application prevents damage caused by flooding and excess rainfall using cutting-edge digital ruler and water segmentation techniques.

Features / Specs

- Runs at the edge or on the cloud, based on preference
- A variety of cameras supported
- Flexible alarm types
- Works in all light & weather conditions
- Works with little internet bandwidth
- Easy configuration & use

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Automated, 24/7 monitoring

Noema’s Flood Detection application runs 24/7 and sends real-time data to a backend of your choice. Real-time metadata and alerts minimizes response times to and allows for more insights to be gathered around flood events.

Computing at the Edge

The app operates at the edge, meaning the algorithm runs entirely on the camera. No additional hardware or network connectivity required.

Remote Installation & Configuration

Noema’s computer vision applications are easy to install. Mount a new camera or use an existing one and configure the application remotely. No additional on-site hardware or measurements are required.

Data and Integrations

Noema’s Flood Detection application generates easily digestible metadata that can be integrated into any backend or VMS.

Frame Data:

- Original and augmented camera frame
- Array of ruler objects and information relative to water level
- Timestamp of the event

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