waterview

WeatherCAM

WeatherCAM combines cutting edge computer vision with a clever use of camera sensors, disrupting the current panorama of weather monitoring by turning non dedicated, existing cameras into the weather stations of the IoT era.

WeatherCAM pre-processes the images and computes raw weather data on both the cameras or a local server, while a backend module called Atroona, that stores and combines data into useful outputs like live weather maps, weather notifications, etc.

WeatherCAM enables cameras to track:

RAINFALL	**SNOWFALL**	**HAIL**	**TEMPERATURE**	**VISIBILITY**
Gauge rainfall intensity with 5 minute	Detect snowfall inception , duration and settling	Detect hail presence and severity	Track environmental temperature	Assess visibility drops due to fog, smoke, precipitations

Example of visibility reduction estimation

Example of rainfall intensity estimation

Atroona returns actionable weather insights for many businesses, like public road and railway administrations or power transmission operators, and includes:

- a database to store raw weather data

- tools to visualize and download weather data and analytics

- a notification centre to set automatic and multichannel weather alerts, based on threshold events defined by the user

- a collection of REST APIs to smoothly integrate weather analytics into user's workflows and/or third party solutions.

In the era of smart cities, smart roads, smart everything, why not having smart weather and environmental monitoring, to automatically provide meaningful weather insights and make our lives better?

This is what we do everyday at WaterView, by developing groundbreaking technologies that look from a completely new perspective what everyone else considers a simple camera.