

Overview

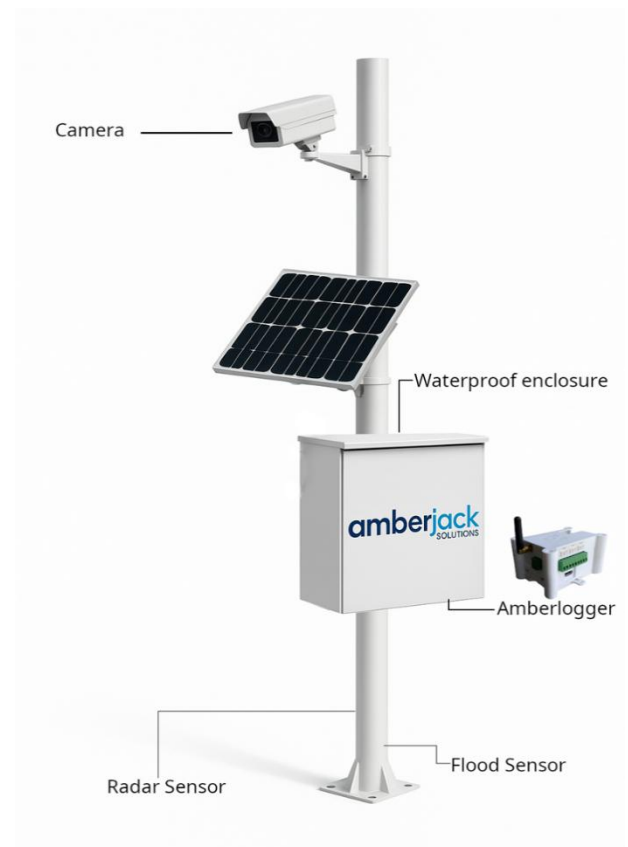
AmberFlood Pro is a flood detection and alarm system with video verification, designed for advanced monitoring to support fast and informed decision-making. This system combines professional-grade sensors with a day and night surveillance camera, ensuring reliable measurements and immediate visual confirmation in flood situations.

What It Does

- **High-precision periodic measurements:** rainfall (rain gauge) and water level using RADAR technology.
- **Real-time video verification:** HD camera with day/night vision for visual confirmation of flood events.
- **Instant multi-channel alarms:** SMS, sound, light, email, or other user-defined integrations.

Main Advantages

- **Professional accuracy:** robust sensors for reliable monitoring in demanding environments.
- **Visual confirmation:** reduce false alarms and gain context with live video and event clips.
- **Autonomous operation:** solar panel and battery for continuous performance.
- **Centralized management:** view data, images, and alarms on the AmberCloud platform.
- **Durable installation:** stainless steel structures with concrete-base mounting.



System Components

- Datalogger
- Communication system
- Solar panel
- Battery
- Water level sensor
- Rain gauge
- Surveillance camera with day and night capability
- Support structures (stainless steel)
- Mounting structures (concrete base)
- AmberCloud web platform for data collection and analysis
- SIM card
- Mobile data plan

How It Works

1. Level and rainfall sensors perform high precision periodic sampling.
2. When defined thresholds are exceeded, an immediate alarm is triggered, and the camera records/provides a verification feed.
3. Data, videos and alerts are sent to AmberCloud, where users can view information in real time, access history, generate reports, and share evidence.
4. Alerts can be configured by user, schedule and communication channel.

Options and Configuration

- Customizable alarm channels (SMS, email, sound, light, integrations)
- Adjustable sampling intervals and alarm rules
- Integration with external systems via the AmberCloud API

Use Cases

- Civil Protection and municipalities
- Urban and rural riverside zones
- Critical infrastructures (bridges, roads, WWTPs, industrial parks)
- Dams and irrigation system operations