HydroMet

HyQuant Edge

A hydrological radar station built into a single compact sensor.

KISTERS

HyQuant Edge water radar stations.

Water level, surface velocity, combined and discharge.

Rethinking what a monitoring station can be.

Hydrology agencies, environmental monitoring authorities, and infrastructure teams are under growing pressure to deploy faster, cover more ground, deliver accessible data, and do it all with tighter budgets and leaner teams.

Traditional hydrological stations haven't made that easy.

Measuring water level, velocity, and discharge has meant assembling multiple components
– sensors, loggers, telemetry, power –
into bulky setups, time consuming to deploy and maintain.

Every new location adds complexity, while every budget constraint leaves a site unmonitored.

The first radar sensor-based monitoring station for hydrology, and a genuinely new way to monitor water.

Compact. Autonomous. Intelligent by design.

HyQuant Edge

Everything a traditional station does PLUS edge capabilities in a size that fits the palm of your hand.

HyQuant Edge

What is HyQuant Edge.

HyQuant Edge is an all-in-one, radar sensor-based hydrological monitoring station – and **the first of its kind.**

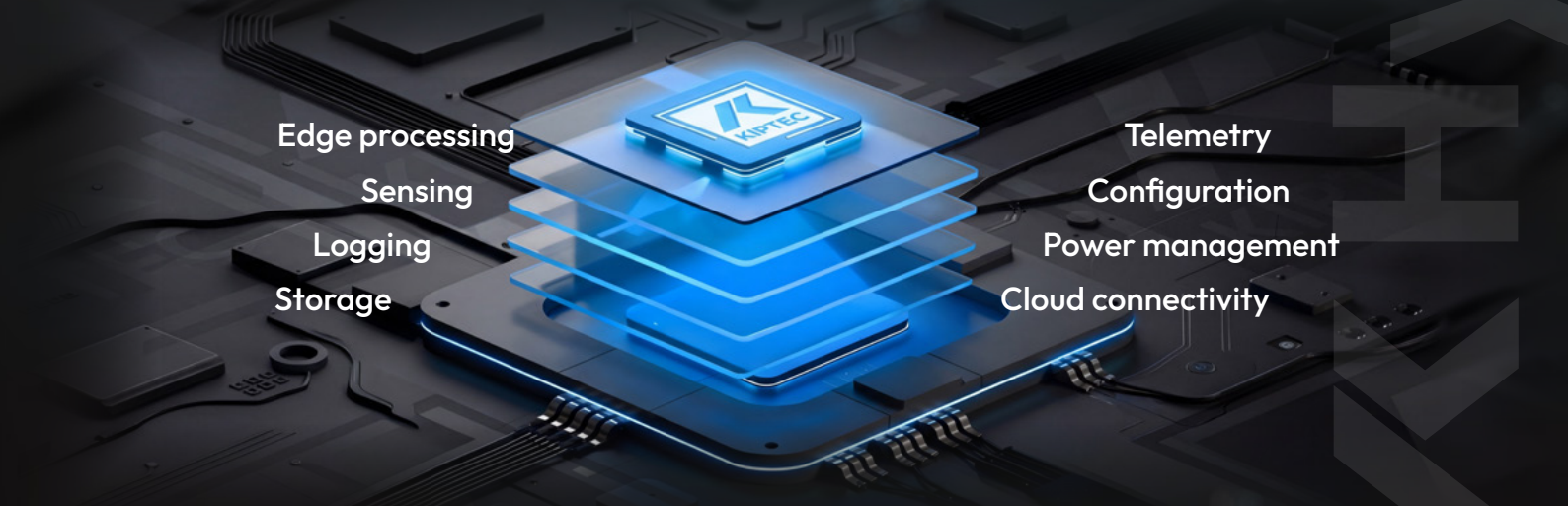
It is the newest member of the HyQuant range, the water radar solution **trusted by monitoring teams around the globe.**

Same proven measurement performance.
Entirely new deployment possibilities.

View datasheets

Why is it different?

Inside every HyQuant Edge station is **KIPTEC, KISTERS Intelligence Platform Technology for Embedded Connectivity.** An edge layer that brings together multiple capabilities within a single device including:

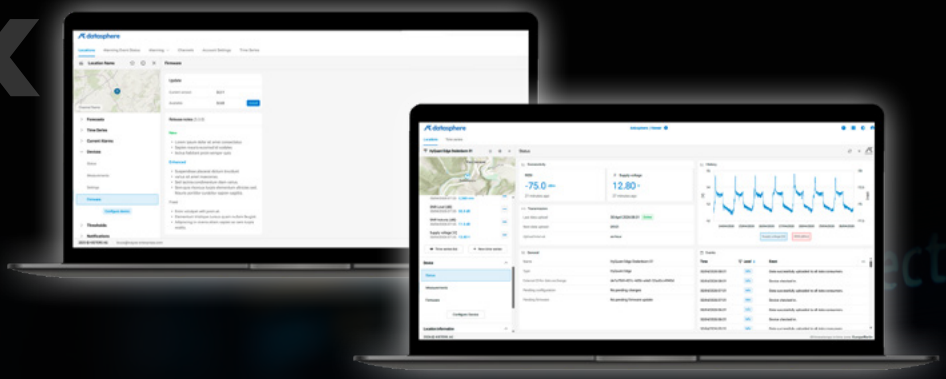


Connect power – and it handles the rest independently.

Live data. Accessible from anywhere – instantly.

HyQuant Edge has connectivity built in from the start. On site, HyComm, KISTERS' Windows-based user interface, soon also available as an Android app – enables instant access to the sensor via WiFi, no app required. Register, configure and update the sensor, set up communication and cloud connection – no specialist radar or IT skills needed.

Site measurements and test data are visible online within minutes, in any browser.



Remote sensor configuration, firmware updates & diagnostics – manage every unit without visiting the site.

Intuitive custom dashboards, code free configuration and alarm manager add-on.

Ideal accessory:
KISTERS datasphere

With this optional **KISTERS cloud** platform, data flows automatically to the cloud – no gateway, no extra hardware.

Real monitoring challenges. Real deployment answers.

HyQuant Edge was built around the constraints field teams actually face.

Remote monitoring sites

- Hydrology agencies
- Basin authorities
- Rural utilities

The challenge.

A site worth measuring sits hours from the nearest road. Every deployment and visit takes planning, time, and resources – with no guarantee of easy access.

With HyQuant Edge.

Fully autonomous and solar-ready, with adaptive logging to **optimise power draw** and store-and-forward to ensure no measurement is ever lost. Visualise data and manage your sensor remotely via KISTERS datasphere – minimising the need for site visits.

Temporary & emergency deployments

- Emergency response teams
- Consultants
- Research organisations

The challenge.

A flood event begins. Existing gauge networks don't cover the critical upstream reach. Permanent infrastructure takes long to permit and install.

With HyQuant Edge.

A **fully plug-and-play** solution, **installed in minutes,** with **no additional hardware** needed **to deliver data immediately,** and when the event is over, the station moves. No site work. No wasted infrastructure. No delays in emergency response.

Ideal accessory: Solar Power Pack.

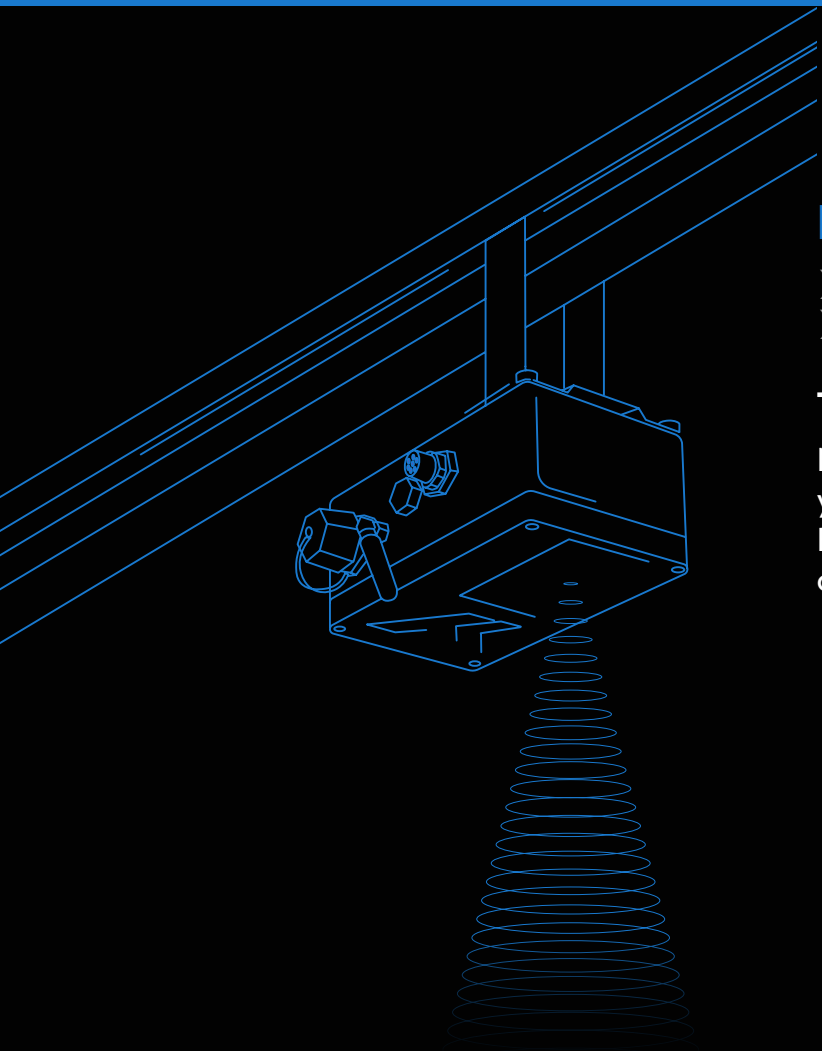
While your HyQuant Edge operates independently with data handling, this pack adds power independence.

Includes:

— Pole or wall mounted assembly of solar panel

— Solar Panel

— HyQuant mounting bracket



Network densification

- City infrastructure officers
- Environmental monitoring agencies

The challenge.

Many networks aren't dense enough, yet flood models need more data points. Each new site multiplies hardware, cost, and maintenance burden.

With HyQuant Edge.

One compact device replaces sensor, logger, and modem – cutting hardware, installation, and maintenance costs per site while plugging directly into existing platforms without changing your workflows. **Your entire network becomes visible instantly and manageable from anywhere** via the optional KISTERS datasphere cloud platform.

Urban constrained channels

- Water utilities
- Basin authorities
- Environmental agencies

The challenge.

Critical urban drainage points often sit in locations with limited clearance. Combined level and velocity monitoring is essential, but available solutions are too bulky, demanding more infrastructure, more installation effort, and making discreet, low-profile installations impossible.

With HyQuant Edge.

Radar-on-chip design puts level and velocity on a single chip – compact enough to fit where other discharge solutions, including radar systems, cannot. Discreet enough for low-profile installations where vandalism is a concern, and can be rapidly deployed with minimal infrastructure and mounting accessories.

Permanent monitoring sites

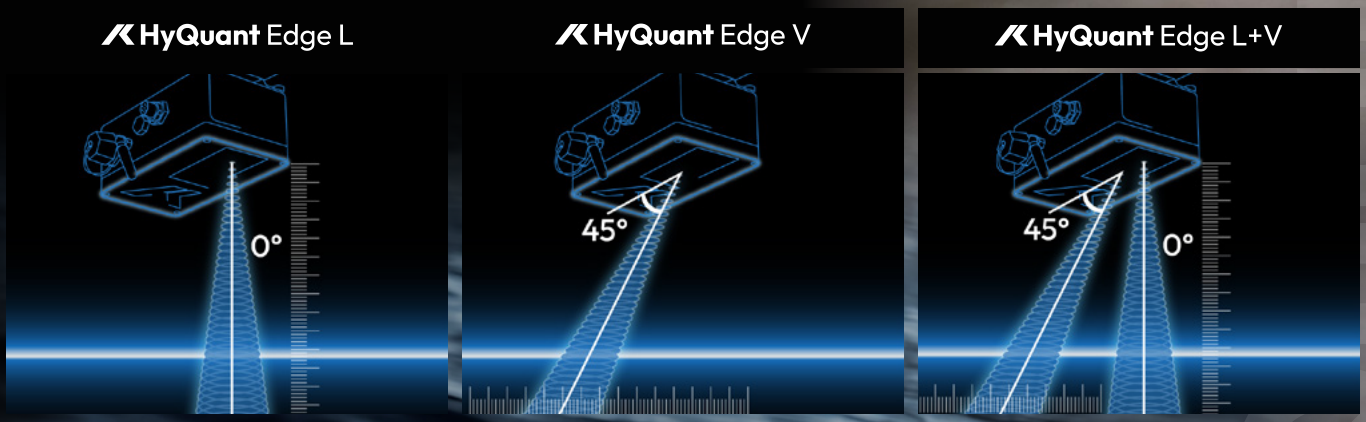
- Hydrology agencies
- Hydropower operators
- Water utilities

The challenge.

Many technologies drift over time, require costly recalibration visits, and rely on external security infrastructure that adds complexity, risk and cost.

With HyQuant Edge.

Solid-state non-contact radar: **no drift, no moving parts,** and zero recalibration visits. **Secure by design,** the system features built-in encryption and mutual TLS engineered to meet **European IT security standards.** Self-learning rain filters keep velocity data reliable in any weather.



Ideal accessory:
Sensor version upgradability.

Upgrade from water level or surface velocity radar to combined level and velocity, and discharge calculation.

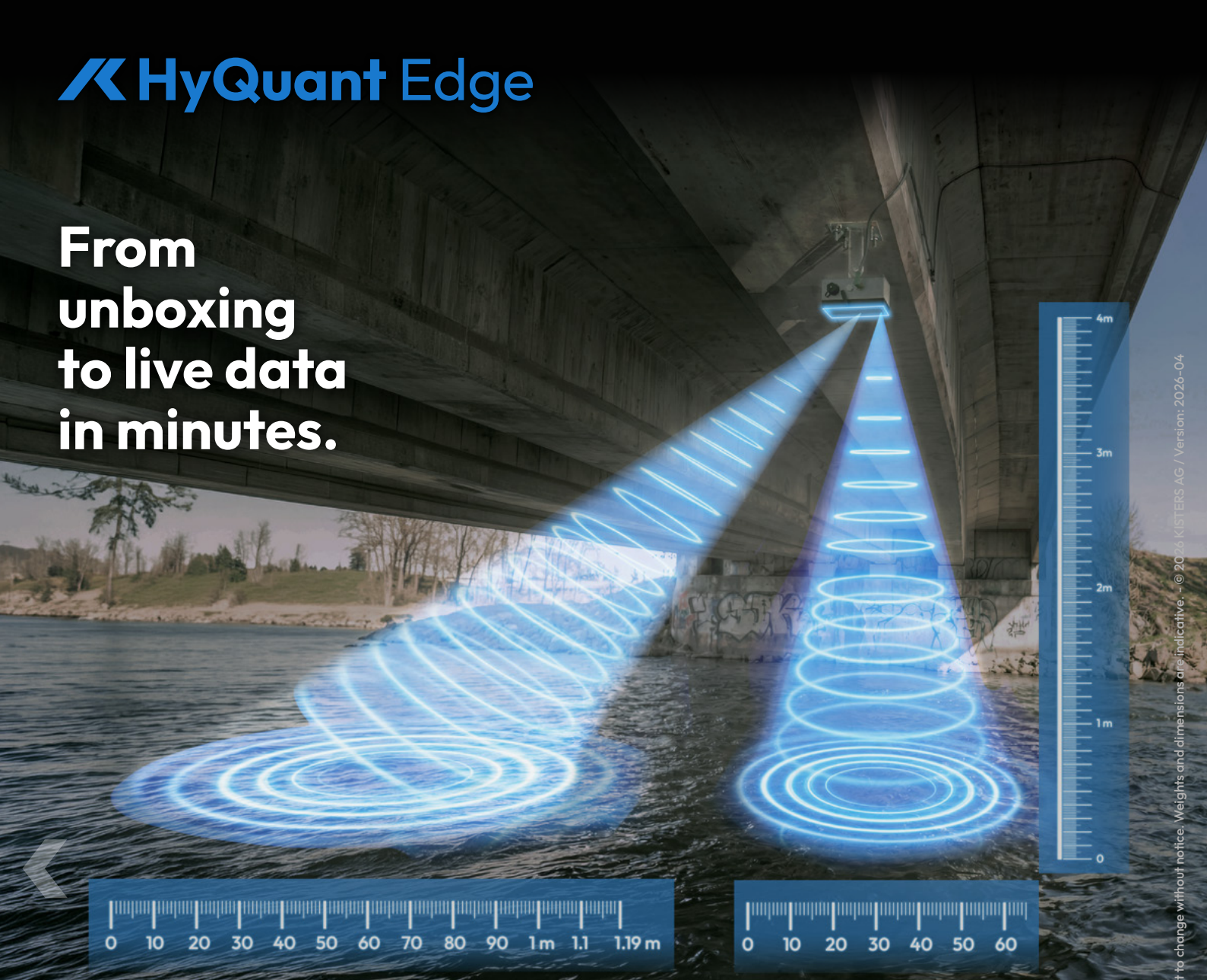
All it takes is a software update. No hardware changes or additions.

How it works:

1. Keep your sensor where it is
2. Request your upgrade via email
3. Receive your activation file, upload it in HyComm, and restart
4. From there, your HyQuant Edge does the rest, now with expanded capabilities.

HyQuant Edge

From unboxing to live data in minutes.



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Who are we?

We're KISTERS – and for over 60 years, we've specialised in helping our customers collect, analyse and share the environmental data that will shape the future.

Through innovative, digitally-focused solutions, we develop advanced systems that enable our customers to capture and manage information at a higher quality than ever before. So they can make the solutions our world needs to thrive.

Discover HyQuant Edge

Talk to an expert

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KISTERS
Empowering decisions of tomorrow