

## Digital Receiver and Signal Processor RVP10

Unmatched meteorological intelligence for ultimate situational awareness



### Key benefits

#### Get unmatched meteorological data

Easily access weather radar data with industry leading signal processing, clutter and interference detection and removal. Get insights faster, thanks to greater computing power and flexible post-processing, plus our renowned and patented Ground Clutter filtering methods (GMAP).

#### Modernize your current weather radar network

The versatile platform is designed to serve all weather radar signal processing needs. Based on Vaisala's vast experience in using an open hardware and software architecture, the solution also processes RVP8 and RVP900 system data.

#### Secure your data and prevent breaches

Rest easy with the only third-party audited, OWASP ASVS security verification on the market. Your radars are continuously protected from dangerous data breaches with intelligent data processing and quality control.

#### Rely on industry-leading capacity

Get decades of reliable performance with the most comprehensive capabilities and feature set of any weather radar signal processor, including flexible configuration, and guaranteed spares availability. Look forward to continuous development for modern signal processing algorithms.

In our ever-changing environment, timely and accurate weather information is crucial to protect lives and property during extreme conditions. Weather radars provide meteorological observers and forecasters with this vital information, and the signal processor must have the capacity to analyze and deliver it.

Vaisala Digital Receiver and Signal Processor RVP10 provides unmatched meteorological data for ultimate situational awareness. Whether you are implementing a new weather radar or upgrading an existing system to the latest signal processing technology, RVP10 offers a full suite of exceptional weather radar signal processing functionality.

RVP10 provides unprecedented data security — the only one of its kind on the market — while cutting-edge filtering methods and signal processing algorithms offer greater access to weather radar data. Vaisala RVP signal processors are trusted in over 50 different weather radar designs worldwide, including solid-state transmitter technology.

The high-powered, future-proof platform is designed to scale and grow with advancements in radar systems and technology, today and for years to come.

## Key features

- **State-of-the-art data security** prevents breaches and keeps your information intact.
- **New processing platform** brings more range bins, better resolution, increased processing power, and flexibility to post-processing.
- **Flexible architecture** provides modular, highly configurable hardware, and an open software design with public APIs
- **Better data quality** through improved clutter cancellation, interference cancellation algorithm, correction for velocity aliasing, and flexible data thresholding.
- **Easy upgrade path** from RVP8 and RVP900 systems, while modern, standard technologies make the solution easy to update and maintain, including new processing algorithms developed by Vaisala.
- **Ready for dual-transmitter technology**, pulse compression and Wide Dynamic Range

## Why Vaisala?

### Expertise and innovation

Your communities rely on you to provide the most reliable and accurate weather information to ensure a better and safer daily life. We are here to help you realize that.

As the day-to-day impacts from climate change and extreme weather events continue to grow, Vaisala is innovating and equipping meteorology professionals to better understand, forecast, and explain the phenomena. Backed by 85 years of proven weather measurement expertise, meteorologists in more than 170 countries trust Vaisala solutions to help them make informed decisions.

### Performance and support you can count on

You're covered if questions arise with 24/7 global support—now and in the future—plus project capabilities and training so you can get the most from your system. With decades of experience providing the best technologies and the finest support, Vaisala's philosophy of partnership is unmatched in the industry.

*Trusted weather observations for a sustainable future*

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