



Anitoa Announces Secure Cloud Connectivity for its Portable qPCR Instruments, Unlocking Advanced Biosurveillance and AI Integration

Anitoa Systems is proud to announce a major advancement in point-of-care molecular testing: the integration of comprehensive cloud connectivity and enterprise-grade security features into its highly popular line of portable qPCR instruments. By bringing the power of the cloud directly to the edge of diagnostic testing, Anitoa is empowering researchers, clinicians, and public health officials with unprecedented flexibility and data accessibility, making the fight against infectious diseases faster and more coordinated than ever before.

With this new cloud-enabled architecture, users can now seamlessly access their Anitoa instruments remotely for streamlined data collection, remote experiment setup, and real-time monitoring. The devices are easily controlled through a secure HTTPS interface via a highly customizable, cross-platform web-based application. This ensures that operators can manage their diagnostic workflows from virtually any device, anywhere in the world, without being tethered to the physical instrument in the field.

The addition of comprehensive cloud connectivity opens the door to transformative applications in global health and research. By enabling centralized cloud-based data storage, the instruments can now feed directly into large-scale data analytics platforms and support seamless AI integration. This capability is particularly vital for continuous biosurveillance, allowing health organizations to aggregate diagnostic data across multiple testing sites in real-time, accurately identify emerging pathogen trends, and deploy rapid, data-driven responses to potential outbreaks on a global scale.

Recognizing the critical importance of data privacy and the highly sensitive nature of diagnostic information, Anitoa has built robust, unyielding safeguards directly into the physical hardware. These new cloud-enabled qPCR devices feature a dedicated hardware security **root of trust** module that is deeply embedded within the electronics subsystem of the device. This sophisticated, hardware-level encryption ensures that every Anitoa instrument is highly tamper-proof and completely un-clonable. By securing the data from the exact moment of collection through to its final cloud transmission, Anitoa guarantees the absolute protection of user information and patient data privacy.

At their core, Anitoa's portable qPCR devices continue to redefine the boundaries of decentralized molecular diagnostics. These extremely fast, highly cost-effective, and exceptionally portable instruments eliminate the need for cumbersome, traditional laboratory equipment. Their remarkable performance, low power consumption, and calibration-free form factor are entirely powered by Anitoa's own proprietary ultra-low-light CMOS bioimaging



sensor. By combining this cutting-edge optical technology with a secure, cloud-enabled infrastructure, Anitoa is delivering on its mission to provide accessible, life-saving diagnostic systems to even the most remote corners of the globe.