

Maintaining the Integrity and Security of the Xenium Analyzer

The Xenium Analyzer is designed exclusively as a specialized appliance, distinct from conventional computing devices, to ensure high performance and data quality in your research endeavors.

Overview

The Xenium Analyzer is a real-time scientific instrument running timing-sensitive control loops for electromechanical operations and high-speed imaging that are tightly-coupled and interleaved with compute-intensive data pipelines. The entire software and hardware configuration of the Xenium Analyzer is qualified and validated as a complete system. Consequently, the instrument is secured against unauthorized modifications, including the installation of additional software, to preserve its security and operational performance.

This stringent policy is integral to maintaining the Xenium Analyzer's reliability and integrity, ensuring it functions as specified. The introduction of external software, such as anti-malware programs, including SentinelOne, CrowdStrike, and Microsoft Defender for Endpoint, could potentially disrupt the carefully calibrated operations of the device, thereby impairing its performance.

Security

To address cybersecurity concerns, the Xenium system is fortified with extensive security measures, including but not limited to encrypted data transmission, strictly controlled outbound endpoints, the absence of requisite inbound endpoints, software updates provided by 10x, a browser-less environment, restricted user permissions, and a comprehensive host firewall. These precautions are elaborated in our [Network Connectivity Technical Note \(CG000645\)](#).

Document Revision Summary

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N/A

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