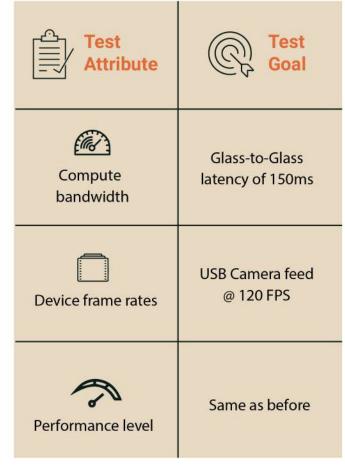


Client

Our client is a pioneer in building hardwareagnostic surgical software by leveraging computer vision, AI, and robotics techniques. The software allows minimally invasive surgical systems (laparoscopes, arthroscopes, and robots) to collaborate with surgeons autonomously.

Client Need

The client's large form factor device has been optimized and reengineered to a small form factor to facilitate portability and real-time insights in the operating room. Hence, the client needed a test solution to ensure the KPIs of the device are achieved with the reduction in the physical size of the existing imaging system setup.



How We Helped

Innominds leveraged its in-house Test Automation platform iHarmony™ Embed to validate the Performance KPIs by developing automation test scripts for



Boot image, client IP camera, 3rd party camera, USB interactions, and external display



Computing processing speeds and glass-to-glass latency



Measuring video quality parameters, processing times, and multiple video comparisons



All the major business scenarios, UI validations, and integration workflows



KPI metrics like iozone, iperf, and stability to measure overall product quality like MTBF by integrating with open-source tools like ioZone, iPerf

Results



65% reduction in testing efforts



Test automation development of 180+ test scripts



Early detection of defects specific to the platform





Complete test coverage for customized board

About Innominds

Innominds is an Al-first, platform-led digital transformation and full cycle product engineering services company headquartered in San Jose, CA. Innominds powers the Digital Next initiatives of global enterprises, software product companies, OEMs and ODMs with integrated expertise in devices and embedded engineering, software apps and product engineering, analytics and data engineering, quality engineering, and cloud and devops, security. It works with ISVs to build next-generation products, SaaSify, transform total experience, and add cognitive analytics to applications.