

WingtraRAY: Where high-end surveying meets IFTEST's electronic reliability expertise



Together with Wingtra AG, we had the opportunity to successfully support the development of the WingtraRAY, the world's most advanced surveying drone. As a flexible and technologically leading EMS partner, we ensured maximum electronic reliability through robust processes and production that meets the highest quality standards.

Innovation emerges where precision, technology, and reliable partners work together seamlessly. This is exactly what the collaboration between Wingtra AG, the world's leading provider of end-to-end aerial surveying solutions based in Zurich and Iftest AG demonstrates. Together, we are supporting the market launch of the WingtraRAY, a new generation of high-precision surveying drones designed for professional applications and demanding operating environments.

At the end of 2024, Wingtra was looking for a new EMS partner for the series production of electronic assemblies. After a thorough evaluation, the choice fell on Iftest. Decisive factors included our strong expertise in electronics manufacturing and testing technology, our industrialization experience and our geographical proximity, which enables close and agile collaboration.

A key success factor of this partnership is Iftest's support in the industrialization of complex electronic assemblies. From prototypes and pre-series units to full-scale production, we support Wingtra along the entire value chain, with a clear focus on manufacturability and testability, as well as stable, scalable processes.

Through state-of-the-art manufacturing technologies, precise implementation according to customer specifications, consistent quality assurance and integrated test systems, we ensure that the electronic assemblies of the WingtraRAY operate reliably and that defined quality characteristics are achieved reproducibly. Test methods such as X-ray inspection of solder joints, functional and integration testing, as well as continuous process monitoring provide maximum reliability and traceability.

The result: tested, high-quality electronic assemblies, ready for deployment "ready to fly".

Iftest's deep expertise in design-for-manufacturability enabled by their manufacturing capabilities combined with subject matter experts ensured that our complex electronic systems could be produced efficiently and consistently. Equally important was Iftest's rigorous testing framework, both in functionality and quality assurance designed to meet Wingtra's strict reliability standards. Last but not least, Iftest's collaborative approach to set up the robust business structure fostered an agile and lean supply network, contributing significantly to overall cost-effectiveness and operational resilience. Partnering with Iftest AG is a great example of what's possible when precision engineering meets production excellence.

Jan Skret, Senior Procurement Manager, Wingtra AG
(extract shortened)



For Iftest, this collaboration is another example of how we reliably bring innovative products into series production: precise, stable and scalable.

Read our 4-part LinkedIn series about this success story!

- › Nr. 1: The world's most advanced surveying drone, WingtraRAY with electronic reliability enabled by Iftest. Here's the [Link!](#)

- › Nr. 2: Wingtra develops the prototype, Iftest makes it ready for series production. Read the exciting second [Post](#).
- › Nr. 3: Quality, process stability and efficiency in series production. Here's the [LinkedIn-Post](#).
- › Nr. 4: Where quality becomes measurable: Assembly and testing for Wingtra. Watch the video here: [Flying-Probe](#).

Iftest - a partner that reliably leads products to success

With Iftest, you get a customized solution and an unbeatable ratio of development to unit costs. Let yourself be surprised by the potential of a future-proof collaboration and get in touch with us.

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