

# Cerexio IQOQ

**IQ and OQ System**



Unrivalled QA Protocols to Optimise Your  
Manufacturing Processes

[www.cerexio.com](http://www.cerexio.com)



# Introduction

## The Forefront of Industrial Excellence Starts Here

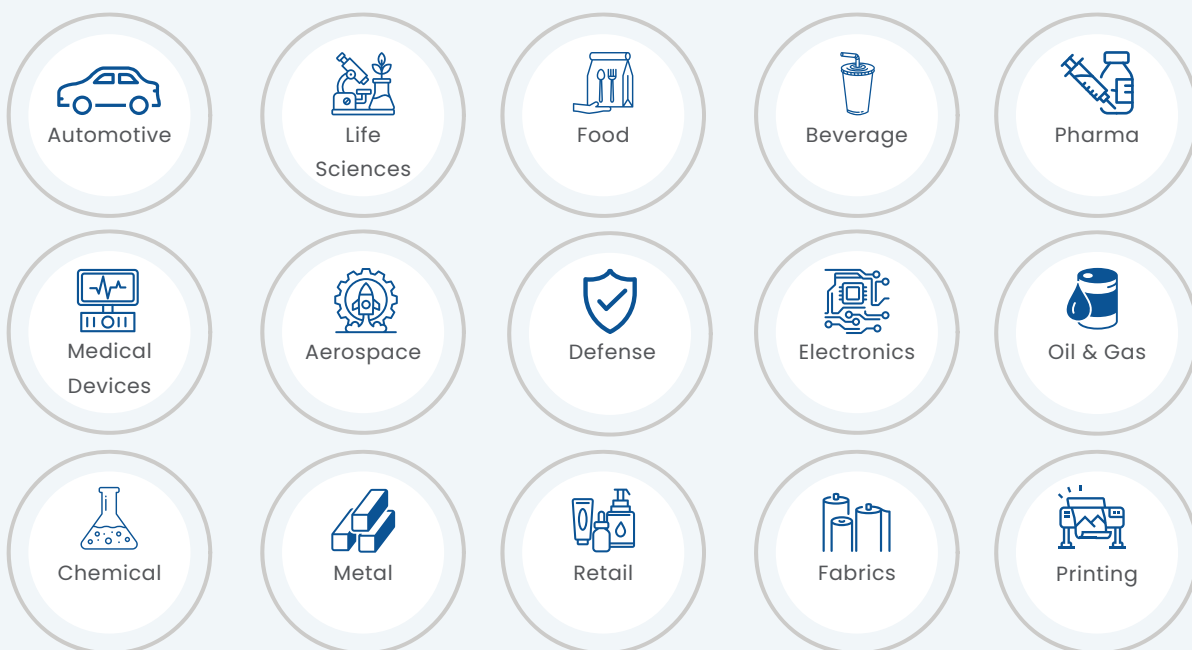
Unlock unparalleled capabilities with the Cerexio IQ and OQ System, revolutionising your ability to tackle tasks effortlessly, such as calculating dilution factors and crafting serial dilutions with unparalleled precision. The system seamlessly generates automatic reports, providing valuable insights for troubleshooting and ensuring compliance with rigorous auditing standards.



## Reliable Qualification Starts With Cerexio IQ and OQ System

@Cerexio Quality Assurance Solutions

### Industries We Serve



# Key Highlights



## 1. Universal Smart Libraries

Extensive IQ/OQ/PQ protocol libraries ensure global standards compliance and efficiency in automated and traditional laboratory technologies.

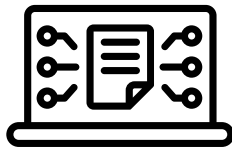
## 2. Performance Validation

Comprehensive validation of computer systems and methods guarantees compliance, reliability, and alignment with industry performance standards.



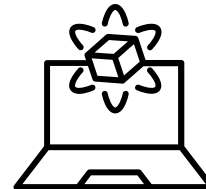
## 3. Unparalleled Data Security

Advanced testing and secure digital archiving streamline audits while ensuring top-level data security and integrity.



## 4. User-Friendly Simulation

Intuitive dashboard enables easy design and simulation of complex lab protocols using AR/VR and digital twin technologies.



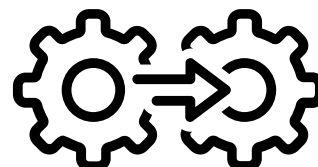
## 5. Effortless Collaboration

Secure global protocol sharing fosters efficient collaboration among researchers and labs, reducing time and operational costs.



## 6. AI-Integrative Compliance

AI-powered compliance monitoring integrates UDI and policy markers, ensuring real-time alerts for regulatory and security adherence.



# Industry 4.0 Capabilities We Offer

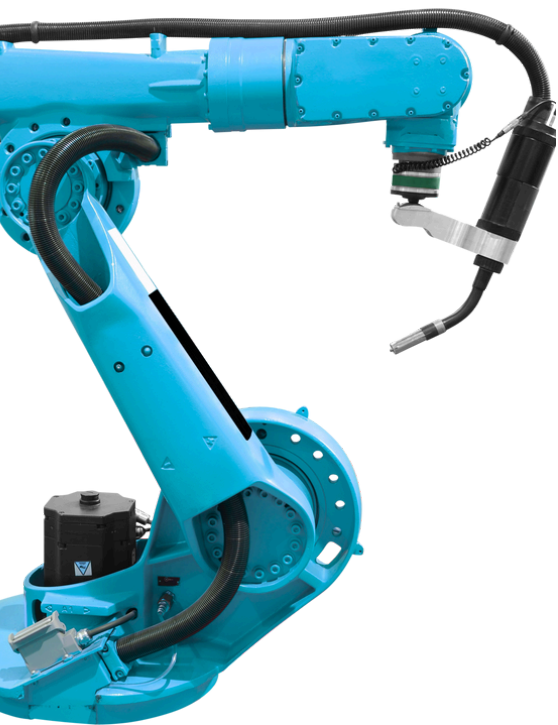
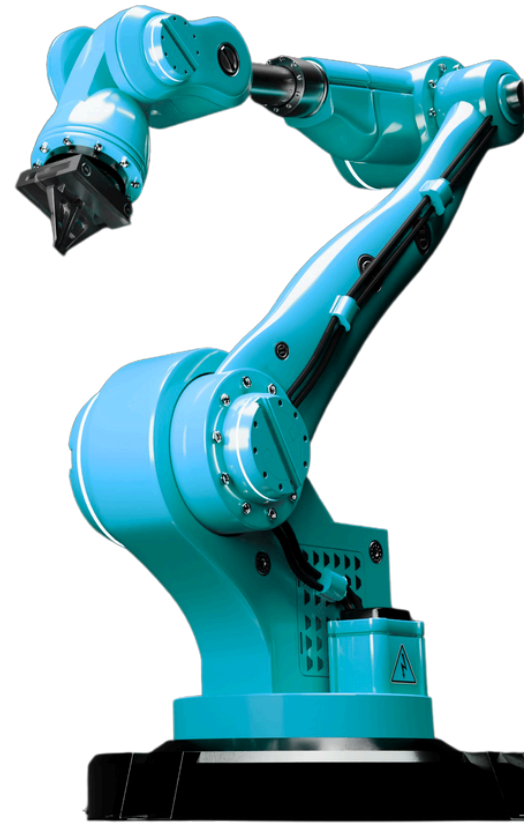
1 AI & Machine Learning

2 Big Data

3 GIS

4 AR/VR

5 Simulation



6 Satellite Remote Sensing

7 CCTV and Laser

8 5G, IoT, Quantum Sensors

9 Digital Twin

10 Robotics and CPS

# Cerexio IQOQ Modules



## **Automated Compliance Checker**

This solution incorporates UDI (Unique Device Identifier) and other policymakers into AI protocols, notifying users of any compliance breaches during operations, including security acts, environmental and social obligations, and electronic record policies.



## **Collaborative Platforms**

Cerexio IQ and OQ System enable the secure sharing of protocols globally, fostering collaboration among researchers, laboratorians, and specialists across different labs. This accelerates collaboration, saving time and costs.



## **Equipment Monitoring**

Cerexio IQ and OQ System users receive digital assistance for installing and qualifying monitoring apparatus. The solution ensures complete functionality and compliance by establishing general procedures for conducting IQ/OQs.



## **Industrial Machine Monitor**

At the forefront of optimising industrial risk assessment, process mapping, and process validation, Cerexio IQ and OQ System cover the entire lifecycle of industrial assets, from preconditions to the end of their usable lifetime.

# Cerexio IQOQ Modules



## **Qualification Service Optimiser**

The central information hub allows quality assurance teams to consolidate all qualification data in a standardised and easily retrievable manner. This ensures seamless traceability throughout the life cycles while maintaining data integrity.



## **Risk Recovery System**

With robust error-handling capabilities, this solution swiftly identifies and addresses issues. It optimises test accuracy, reproducibility, and sensitivity while prioritising disaster recovery and maintaining impeccable data storage accuracy.



## **Sensitive Data Privatisation**

Cerexio IQ and OQ System prioritise data integrity by implementing high-security data protocols such as encryptions, 3-factor authentication, blockchain, and other data privatisation methods. This ensures sensitive information is accessible only to authorised parties.



## **Simulative Protocol Designer**

Cerexio IQ and OQ System introduces an intuitive dashboard facilitating intricate tasks and protocol design through simulation, AR/VR, and digital twins. Users can simulate tasks such as heating, shaking, or centrifugation steps.



# Cerexio IQOQ Modules



## **Smart Instrumentation and Calibration**

Cerexio IQ and OQ System streamline smart instrumentation and calibration with comprehensive protocols and seamless integration for uninterrupted efficiency and precision. This includes real-time monitoring, automated data recording, and customisation.



## **Predictive Maintenance Analytics**

Leverage AI-driven predictive analytics to forecast equipment failures before they occur. This function minimizes downtime, extends asset lifespan, and reduces maintenance costs by enabling proactive servicing and timely interventions.



## **Automated Report Generation**

Automatically generate comprehensive validation and compliance reports based on real-time data. This feature saves time, reduces human error, and ensures consistent documentation aligned with regulatory standards for audits and inspections.



## **Integrated Training Modules**

Incorporate interactive training and certification modules within the system to educate users on protocols, compliance requirements, and equipment operation. This promotes standardized practices, reduces errors, and enhances overall laboratory competency.

# Cerexio IQOQ Benefits

## The Future of Manufacturing Integration, Informed Decision Making and Enhancing Customer Satisfaction

The Cerexio Track and Trace System empowers manufacturing with cutting-edge technology, offering universal tracking capabilities and real-time insights. From production to distribution, it enhances efficiency, controls product diversion, and ensures supply chain transparency. Its originality and quality assurance, coupled with blockchain security, make it an indispensable asset for optimised operations.

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### **100% Testing Accuracy**

Experience Its cutting-edge approach guarantees 100% accuracy, instilling confidence in results and validating equipment, instruments, and software.

### **Futuristic Automation**

The system ensures seamless calibration procedures, empowering teams with a self-service dashboard for independent data management and smarter troubleshooting capabilities.

### **No Risk of Data Loss**

Bid farewell to the risk of data loss with Cerexio IQ and OQ System's secure digital archiving. Preserve and access critical data records reliably, providing peace of mind and safeguarding valuable information for future reference and compliance.

### **Risk-Free Operation**

Cerexio IQ and OQ System minimise the risk of errors and varying interpretations, ensuring accurate experiment execution. This prevents the loss of funding and research time.



# Cerexio IQOQ Benefits

## Optimise Your Supply Chain Management with The Best Track and Trace Technology 4.0

Utilise the cutting-edge features of this traceable manufacturing solution to obtain a major competitive advantage in the manufacturing sector. With the help of this system, modern manufacturing is equipped with the necessary digital capabilities, allowing for constant updates on the efficiency of manufacturing facilities. The following are some of this solution's primary characteristics.

### **Secure Digital Archiving**

Ensure the confidential and intact storage of critical data records with Cerexio IQ and OQ System. The secure digital archiving feature enhances data integrity, compliance, and accessibility for efficient audits and inspections.

### **Universal Industry Facilitation**

Cerexio IQ and OQ System cater to 20+ industries, making it the go-to protocol library system for bioanalysis, cell biology, diagnostics, drug discovery, food testing, general liquid handling, genomics, lipidomics, and more.

### **Enhanced Regulatory Readiness**

Maintain continuous audit readiness through comprehensive, well-organised documentation and automated compliance verification. This streamlines regulatory submissions and inspections, reduces administrative burden, and ensures your laboratory consistently meets evolving industry standards with minimal effort and maximum confidence.

### **Scalable Customisation**

Easily adapt the Cerexio IQ and OQ System to meet changing laboratory demands by leveraging flexible protocol customisation options. This scalability supports diverse research workflows, accommodates growth, and ensures your processes remain efficient and aligned with evolving scientific requirements.

# Cerexio Client Stories

Cerexio has been at the forefront of digital transformation in manufacturing, empowering companies to achieve operational excellence and sustainable growth. Through its flagship solutions, Cerexio has partnered with industry leaders to solve complex challenges, ranging from throughput optimisation to emission control, while delivering measurable business value.

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## **A company that manufactures and fabricates precision parts, moulds, and dies.**

1

Vertically-integrated manufacturing services since 1978. They had a challenge in digitally transforming factories to improve operational efficiencies and reduce labour costs.

CEREXIO MES improved the throughput by digitally transforming their factory of 200+ moulding machines while the same labour capacity was able to deliver a +10% profit

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## **Cement Manufacturer**

2

According to Forbes, this company was on the list of the 700 largest global public companies in 2015. They had challenges in achieving kiln stability and optimisation.

CEREXIO MES was utilised by them to prevent poor quality, suboptimal throughput, unhealthy emission rates and energy losses by predicting failures in cyclone infrastructure.

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## **ARTC- Advanced Remanufacturing Technology Centre**

3

A Singaporean government agency that researches to facilitate the advanced manufacturing ecosystem in the region.

CEREXIO MES Services and Modules optimised their hyper-personalisation Line- a solution that manufactures personalised products in a fully automated production line.

# Contact Cerexio

Don't hesitate to get in touch with us for further clarification or to book a demo this week. The contact particulars of our company are as below:

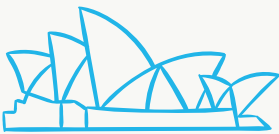


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