



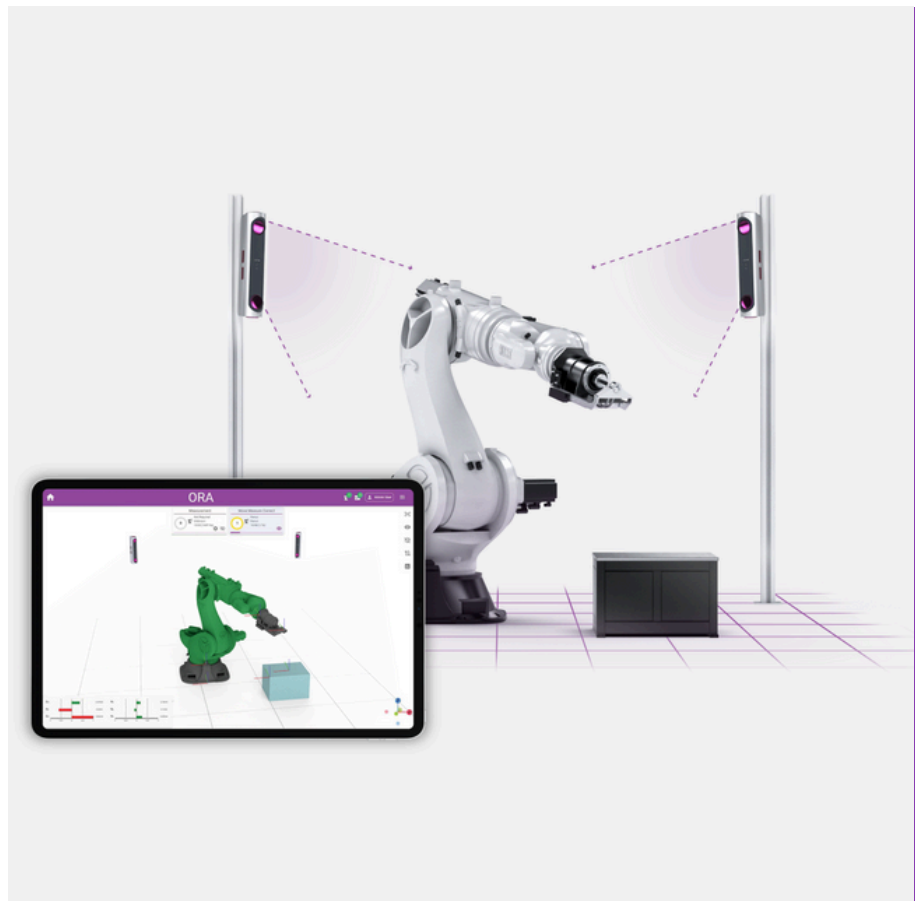
A LIVE DIGITAL TWIN WITH REAL TIME CONTROL

The essential platform for robot guidance, coordinate frame management and live visualisation.

Overview	ORA robot control software provides global coordinate frame management, allowing visualisation of coordinate frames within an automation cell, from all sensors, robots, fixtures and other key datums.
Release number	2.0
Release date	October 2025
Key updates	ORA 2.0 is not limited by the reference points it can track - it can track and feed back control information for all sensors, robots, or any other selected reference point.

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TECHNICAL SUMMARY



Purpose

A standalone software application to coordinate multiple instruments, sensors and robots concurrently, providing enhanced measurement data and precise robot cell control.

Usability

- Rich, yet intuitive browser-based user interface
- Supports multiple concurrent users, each with their own role-based permissions
- Single UI for visualisation and configuration of all connected devices including robots and instruments
- Visualisation and streamlined setup make configuration and management of complex metrology operations trivial
- Comprehensive support available from a team of specialist engineers with extensive experience in metrology and industrial automation

Device integration

- Open-architecture supports easy integration of most types of instruments, including more cost-effective 2D and 3D sensors
- Many key robot manufacturers supported - additional support can be easily added utilising ORA's common automation interface
- All available operations in ORA can be triggered and controlled from the robot controller utilising ORA's automation API

Data integration

- Real-time data can be shared with other systems using open industrial communication protocols such as OPC-UA, MQTT, ROS 1 & 2 and REST API (SDK)
- The sophisticated scene graph sitting at ORA's core provides a common source of measurements for any measurable artefact regardless of source
- Real-time measurements can be provided through any of the included integration protocols
- Control commands and triggers can be provided by external systems offering a tightly integrated solution for any manufacturing cell

Visualisation

- Offers a live digital twin including robot, instrument and measurement representations
- Each operation is visualised offering dynamic feedback on measurements and performance. Instant feedback is provided on operation completion.

Instrument support

Now included in ORA V2 ✓

- IONA
- AT960 Laser Tracker
- Vicon
- AT500 ✓

Robot integration

- KUKA ✓
- Fanuc ✓
- ABB ✓
- Universal robots ✓
- ROS Driver (ROS 1 & 2) ✓

Communication protocols

- MQTT ✓
- OPC-UA ✓
- REST API ✓

Service architecture

- Always-on 24/7 operation
- Remote monitoring and configuration
- Multi-client support
- Users and roles inc. operator levels
- Auditing of all actions within software

Licensing options

- Standalone
- Floating network