

U-TEST®

Enable Continuous End-to-End Validation
across the Entire Development Lifecycle



U-TEST is a simulation and validation platform that supports system development from design to final acceptance, enabling validation of complex systems across industries.

U-TEST®

Product Highlights:

- Real-time simulation platform
- Test script reuse across the entire development cycle for all libraries
- HIL integration capabilities
- Open and modular architecture
- Full lifecycle validation support



Key Benefits:

- Reduce costs by finding bugs early in the development cycle, before reaching operations
- Ensure validation continuity across lifecycle
- Accelerate development and prototyping
- Improve model accuracy and performance
- Enable collaboration between teams
- Reduce risk in system validation

Technical Highlights:

- Real-time simulation and recording
- Supports complex system simulation
- Multi-simulation and HIL capabilities
- Open, modular architecture
- Advanced debugging and analysis tools
- Large library of signals, buses and protocols available (DIO, Analog, CAN, A429, AFDX, etc.)

→ Real-Time Simulation Engine that offers Flexible Integration in a Customizable Platform

- Executes models in real time
- Supports complex and multi-domain systems
- Supports MATLAB/Simulink and FMI standards
- Enables HIL and multi-simulation workflows
- Open APIs and scripting capabilities for complete pipeline automation
- Custom GUIs and workflows

→ U-TEST® CONSORTIUM

- Source code shared within the community
- Enrichment of the product by technical experts
- Fully autonomous implementation of test means



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Technical Specifications:

Integrate Models from Industry Standard Modeling Software

- MATLAB Simulink model integration
- FMI 2.0/3.0 compliance
- C, C++
- ControlBuild

Monitor and Debug

- Operate multiple table views and graphs
- Inject faults to test the limits of your simulation
- Start, pause and resume the runtime engine

Script for Automation

- Embedded Test Framework
- Open APIs (Python, C, C++, .NET, Java)
- Get XML, HTML reports

Record and Analyze

- Real-time recording capabilities
- Analyze HDF5 record

Advanced Features

- Design your own GUI with multiple types of widgets
- Customize the internal scheduler to improve performance
- Operate the simulated time feature to:
 - Reduce simulation duration
 - Troubleshoot issues

→ Simplify complex system testing and seamless collaboration with U-TEST and accelerate validation across your entire development lifecycle.

