RUTOMATRIX™

TESSOLVE
A HERO ELECTRONIX VENTURE

You Imagine, **AI Executes**

Empowering Remote Control and Monitoring for Seamless Validation and Verification

The Rutomatrix is an advanced remote operations management solution that allows you to control and monitor your Embedded platforms from anywhere in the world.



Integration Platform

Unifies hardware, software, sensors, and data into one connected ecosystem.

Automation, Intelligence & Testing

Drives AI-Powered workflows with reliable end-to-end testing and validation.

Scalability & Flexibility

Expands seamlessly from compact lot setups to enterprise automation.

Insights & Empowerment

Turns data into intelligence, empowering teams to build, test, and innovate confidently.

Features

Real-time Remote Access

Interact with devices from anywhere using smooth video, audio, and control through a secure web interface.

Automated Software Deployment

Flash firmware, install operating systems, and push updates remotely with minimal effort.

Built-in Signal & Protocol Insight

Capture and analyze key digital signals to understand device behavior and troubleshoot issues faster.

Intelligent Power & System Control

Automate power cycles, resets, and system monitoring without needing to physically touch the hardware.

USB & Peripheral Virtualization

Connect USB tools, debuggers, and storage devices over the network as if they were plugged in locally.

Multi-modal Device Streaming

View HDMI, camera, and thermal feeds together for complete visual insight into any device or setup.

AI-assisted Testing & Debugging

Leverage intelligent automation to generate tests, analyze failures, and shorten development cycles.

Physical Workflow Automation

Use robotic extensions to perform repetitive physical actions like button presses or connector operations.

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A Symphony of Smart Automation

1. **Autonomous Code Generation & Debugging**
Rutomatrix's AI spins up test code and debugs on the fly, like a robotic maestro perfecting its own symphony.

2. **Intelligent Hardware Orchestration**
It conducts the hardware like a digital conductor, aligning GPIOs, sensors, and power lines in a perfect automated harmony.

3. **AI Analytics & Prediction**
Using data, Rutomatrix's AI can foresee glitches and adapt tests in real time.

4. **Context-Engineered LLM**
Rutomatrix's in-house LLM is built on context engineering, enabling precise understanding of hardware states, test intent, and system constraints for accurate decision-making.

Advantages of Remote Test Management

Discover why Rutomatrix stands out from the competition with these core benefits

Affordability

Unlock significant savings without sacrificing quality with our affordable, cost-effective product solutions.

Ease of Setup

Enjoy a hassle-free experience with our product's straightforward and quick setup process.

Efficiency Boost

Boost your productivity with our product's streamlined design for maximum output with minimal effort.

Flexibility

Experience unmatched adaptability that seamlessly adjusts to your changing requirements.

Unlock Your Ideal Rutomatrix

RUTOMATRIX
The Essentials - Simplified

Rutomatrix Base delivers the core capabilities required for reliable remote access and basic device bring-up. It's built for teams that need stable video streaming, OS flashing, and simple power automation without added complexity.

Best for: Remote engineers, entry-level validation, early bring-up, and lightweight testing setups.

RUTOMATRIX Pro
More Insight. More Intelligence.

Rutomatrix pro enhances the Base experience with deeper visibility and smarter analysis. It includes thermal monitoring, multi-camera support, and logic-level insights, making it ideal for more sophisticated validation workflows.

Best for: Embedded engineers, QA teams, IoT labs, and anyone who needs richer diagnostics and multi-sensor automation.

RUTOMATRIX HPC
Automation at Full Power

Rutomatrix hpc represents the highest tier - combining AI-assisted testing, robotics, and powerful compute resources. It supports enterprise-level validation, heavy workloads, and fully automated mechanical interactions.

Best for: OEM labs, enterprise test farms, complex validation cycles, and high-volume automated testing setups.

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