



HMI TEST AUTOMATION

iXTouch

INTELLIGENT HMI TEST AUTOMATION PLATFORM

**Precision that feels human.
Automation that delivers certainty.**

iXTouch replaces slow, manual HMI testing with robotic, human-like touch and AI-powered vision — validating automotive cockpits, avionics, medical and industrial interfaces unattended, 24×7, with full traceability.



ROBOTIC TOUCH

Servo-driven precision gantry for accurate touch & gesture input.



MULTI-TOUCH & GESTURE

Tap, swipe, scroll, zoom, pinch, rotate — true to human use.



AI + COMPUTER VISION

Real-time UI verification with high-speed cameras & AI.



HiL SYNCHRONIZATION

Integrates with HiL for event triggering & validation.



24×7 UNATTENDED

Continuous testing for faster software validation.



RUGGED & SAFE

Industrial PLC control, safety interlocks, auto-recovery.

Up to 80%

FASTER TEST
CYCLES

24×7

UNATTENDED
TESTING

Dual-Stylus

HUMAN-TOUCH
SIMULATION

AI-Vision

REAL-TIME
VALIDATION

Zero

OPERATOR FATIGUE



HOW IT WORKS

FROM TEST CASE TO VALIDATED RESULT

1

CONFIGURE

Define tests & gestures via Python API.

2

ACTUATE

Servo gantry performs human-like touch.

3

CAPTURE

High-speed camera records UI response.

4

VALIDATE

AI vision flags issues & auto-reports.

KEY SPECIFICATIONS

MOTION	Servo actuators on LM guides — X/Y/Z
TOUCH	Pneumatic & solenoid; dual-stylus
GESTURES	Tap, multi-touch, swipe, scroll, zoom, pinch
VISION	High-speed camera + AI computer vision
RECOGNITION	AI OCR & NLP — text, symbol, speech
SOFTWARE	Python API & UI; remote monitoring
OPERATION	24x7 unattended; PLC safety interlocks
INTEGRATION	HiL sync; automated reporting & traceability

WHY iXTouch

- ✓ Human-like touch precision, repeatable every run
- ✓ Faster validation cycles with AI-driven insights
- ✓ Cross-industry adaptability, one platform
- ✓ Backed by Alwyn's US team for demos & rollout

APPLICATIONS & INDUSTRIES



AUTOMOTIVE

Infotainment, clusters, dashboards, touch controls.



AEROSPACE

Cockpit displays & avionics HMIs.



MEDICAL

Diagnostic touchscreens & operator panels.



INDUSTRIAL

SCADA, PLC systems & control consoles.



BUILT FOR THE SOFTWARE-DEFINED COCKPIT

EXPERIENCE iXTouch — CONTACT US TO KNOW MORE & BOOK A TECH MEETING.

Get in touch to learn more and set up a technical meeting — our US team will walk your engineers through a live run and scope a pilot on your own HMIs.

CONTACT US →

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