DATA SHEET

Appvance IQ (AIQ)
The AI-first Quality Platform

Human Designed, AI-First Testing

Appvance is the undisputed technology leader in AI-first QA automation. With a 10-year head start, 7 patents, and the most advanced models—including application Digital Twin technology—no recorder-led or script-heavy tools are in the same league. AIQ learns your application, autonomously creates, runs, and maintains tests, and keeps intent and execution in sync.

AI Script Generation

What it is: Autonomous creation of runnable UI and end-to-end tests—no recording, no Selenium coding.

How it works: AISG uses your business requirements and test data plus the Digital Twin's map of screens, states, and flows to produce 1,000+ executable scripts per hour.

Why it matters:

- ~ 10× application/code coverage vs. traditional, human-authored tests
- Surfaces serious bugs your scripted cases miss by exploring all valid states for each requirement
- Drop selected AI-generated tests into your regular regression pipelines

API Script Generation (with Complete Data Packages)

What it is: Generative AI that turns OpenAPI specs into runnable API tests and the data they require.

How it works: Reads schemas, paths, and constraints to create requests, assertions, and synthetic data for types, ranges, and edge cases—ideal for contract testing.

Why it matters:

- Anyone can master API testing—no hand-built scripts
- Massively expands permutations and negative cases for better reliability
- Plugs into CI/CD for continuous API validation

To learn more about AIQ please email us at info@appvance.ai

AI-Generated Artifacts (GENI Transformation Factory)

What it is: GENI creates and regenerates QA artifacts downstream and upstream to keep your QA flow aligned.
How it works: Convert user stories > scenarios > test cases > runnable scripts—or go the other way (scripts/test cases > summaries/user stories/requirements) in minutes.
Why it matters:

- Cuts manual artifact work by ~90%
- Ends rewrite marathons; keeps documentation, tests, and implementation in sync
- Strengthens traceability for compliance and audits

GENI Script Generation (from manual cases)

What it is: One-click transformation of existing manual test cases into executable scripts.
How it works: Paste or import plain-English steps; GENI interprets intent and produces runnable tests that AIQ can maintain.
Why it matters:

- Minutes to automation for legacy suites
- Frees teams from hand-translating steps to code
- Creates a fast on-ramp to AI-first regression

AI ASSERT (Natural-Language Validation)

What it is: Ground-breaking assertions using plain English—validate visuals, motion, and text without locators or code.
How it works: Describe outcomes like "the door opens," "the heart is beating," or "the product rotates 360°." AI ASSERT checks images, animations, video, and 3D elements across web and mobile.
Why it matters:

- Eliminates custom assertions and brittle selectors
- Covers accessibility nuances, overlapping text/elements, complex tables, and rich media
- Makes UX validation conversational and fast

AI-Driven Recorder (Self-Healing + Data)

What it is: The market's fastest recorder with Self-Healing ML (pioneered by Appvance in 2016).
How it works: Choose visual accessors like a human would; AI auto-repairs selectors when the UI shifts and injects AI-generated test data where needed.
Why it matters:

- Reduces maintenance by 90%+
- Captures flows at speed while staying resilient to change
- Ideal for quick authoring that still benefits from AIQ's autonomy

How it all connects

- **Digital Twin** maps your app's states and paths
- **AISG** turns that map and your requirements into runnable, self-maintaining tests
- **GENI** keeps intent and execution aligned (plain-English <> scripts, artifacts up/down the chain) >
- **AI ASSERT** validates complex UI/UX outcomes in natural language
- **AI-Driven Recorder** accelerates capture with self-healing and built-in data
- **AIQ** orchestrates generation, execution, analytics, and governance in your CI/CD + Jira stack.

Outcomes: Faster releases, fewer production issues, far less rework, and a durable market edge—powered by true AI-first QA.

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