

DataDome Slider, a CAPTCHA alternative

Traditional CAPTCHAs rely on puzzle difficulty to distinguish humans from bots. However, relying on puzzle difficulty is a fundamental flaw in the age of AI.

DataDome's Slider verification takes a different approach. Rather than testing puzzle-solving ability, it observes authentic human behavior. Through a simple horizontal slide interaction completed in under 2 seconds, it collects rich behavioral signals that sophisticated bots cannot replicate. Combined with an invisible-first approach, 99.99% of users never see the slider at all, with only 0.01% of requests requiring visible verification.

Minimize user friction while maximizing bot detection through behavioral signal collection, not puzzle complexity. The modern CAPTCHA alternative for enterprises seeking frictionless security.

The Traditional CAPTCHA Problem

Bots Bypass Puzzles

- AI solvers achieve 90%+ accuracy on image puzzles
- CAPTCHA-solving services cost \$1-3 per 1,000 solves
- Modern bots solve puzzles faster than humans

Users Suffer Friction

- 10-15 second average solve time for puzzles
- 5-9% conversion drop from user frustration
- Accessibility challenges for vision-impaired users

The Result

Maximum frustration for legitimate users, minimal protection against sophisticated bots

DataDome's Two-Tiered Verification System

1. Invisible Verification

Zero user friction, completely transparent verification

- Collects device fingerprinting and environmental signals automatically
- Real-time analysis by AI detection engine
- User experience: 0 seconds, no interaction required

2. Slider Verification (Captcha Alternative)

Simple horizontal slide. Minimal friction, maximum behavioral signals

- Average completion time: <2 seconds (faster than traditional puzzle CAPTCHAs)
- No puzzles, no image recognition, just slide from left to right
- Shown to only 0.01% of users
- Collects rich behavioral data: mouse movements, timing patterns, touch dynamics
- WCAG 2.2 accessibility compliant
- Available in 50+ languages

Graduated Response Escalation:

- Low-risk traffic > Invisible verification (zero friction)
- Medium-to-high risk traffic > Slider verification (minimal friction)
- Confirmed malicious traffic > Blocked

Key benefits

✓ Exceptional User Experience

99.99% of users never see the slider. Only 0.01% encounter visible verification. When needed, our slider CAPTCHA alternative is completed in under 2 seconds, minimizing friction and abandonment.

✓ Superior Bot Detection

Behavioral signal collection defeats automated attacks that easily bypass puzzle-based CAPTCHA. Detection accuracy is maintained without relying on puzzle difficulty.

✓ Accessibility & Inclusivity

WCAG 2.2 compliant with support for 50+ languages. No vision-based puzzles that exclude users with accessibility needs.

✓ Enterprise Flexibility

Graduated response system adapts to risk levels. Configure invisible-first with slider escalation based on your security requirements and user experience goals.

✓ Continuous Improvement

Slider interactions provide a feedback loop for threat intelligence. Behavioral patterns improve AI detection accuracy over time.

✓ Seamless Migration

Successfully deployed to 180+ customers in December 2025. Replaces legacy puzzle CAPTCHA with zero disruption to user experience or detection accuracy.

How the Slider Verification Works

Step 1 User Encounters Slider

When invisible signals indicate medium-to-high risk, the slider verification appears

Step 2 Simple Interaction

User drags a slider element from left to right to complete verification
(<2 seconds average)

Step 3 Behavioral Analysis

AI engine analyzes interaction patterns to verify authentic human behavior

Signals Collected During Slider Interaction

Behavioral Signals:

- Mouse movement patterns and velocity
- Touch dynamics and pressure (mobile)
- Timing variations and hesitation patterns
- Error correction behavior

Device & Environment Signals:

- Device fingerprint and browser characteristics
- Screen resolution and orientation changes
- JavaScript execution consistency
- Hardware capabilities (CPU, GPU)

Ideal Use Cases

✔ Account Protection

Credential stuffing, account takeover attempts, fake account creation. The slider validates authentic users during login and registration.

✔ Form Submissions

Lead generation, support tickets, and contact forms. Eliminate spam submissions without frustrating legitimate users with lengthy verification.

✔ User-Generated Content

Comments, reviews, forum posts. Protect UGC endpoints from spam bots while maintaining a seamless experience for legitimate contributors.

✔ High-Traffic Endpoints

Ticketing, limited releases, high-demand inventory. Scale invisible detection with slider step-up for suspicious patterns.

✔ E-Commerce & Transactions

Checkout flows, payment pages, and inventory scraping. Minimal friction during high-value interactions while blocking automated abuse.

Competitive Differentiation

	DataDome Captcha Alternative	Traditional Puzzle CAPTCHA
Capability		
Solve Time	0.6-1.4 seconds	10-15 seconds
User Interaction	Simple horizontal slide	Complex image puzzles
Detection Method	Behavioral signal analysis	Puzzle difficulty
AI Bypass Resistance	High (behavior patterns)	Low (90%+ AI solve rate)
Accessibility	WCAG 2.2 compliant	Vision-based challenges
Conversion Impact	Minimal (less than 1%)	A 5-9% drop is typical
Mobile Experience	Optimized for touch	Difficult on small screens
Languages Supported	50+	Varies

Technical Specifications

Performance

- Average Solve Time: <2 seconds
- Detection Latency: Less than 2ms (P99)
- Display Rate: 0.01% (99.99% of legitimate users verified invisibly)

Compatibility

- Languages: 50+
- Accessibility: WCAG 2.2 compliant
- Devices: Desktop, Mobile, Tablet
- Integration: Drop-in replacement

Deployment

- Launch Date: December 9, 2025
- Migration Required: Zero-touch upgrade

Security

- Signal Collection: Multi-layered
- Detection Models: 85,000+ customer-specific
- False Positive Rate: Less than 0.01%
- Protected against attackers with strong obfuscation techniques like:
 - ◊ Virtualization (VM)
 - ◊ Compilation (WASM)
 - ◊ Dynamic changes of code

Ready to Upgrade Your Bot Detection?

- ✓ Replace frustrating puzzle CAPTCHA with DataDome's invisible-first approach and < 2-second slider verification.
- ✓ Minimize user friction while maximizing bot protection.



Contact your DataDome account team to learn more or schedule a demo.

© 2026 DataDome. All rights reserved.