

Unified Screening with Evolv Express® and Evolv eXpedite™

Security leaders have a clear mission: keep people moving efficiently through entrances, while confidently screening for real threats.

Evolv Express is built to meet these goals, designed for high throughput while aiming to minimize invasive searches. Express uses advanced sensors and AI to distinguish between real threats and many common everyday items, while supporting security teams through the end-to-end screening process.

But here's the reality: modern weapons detection systems, including Express, face challenges when cluttered bags enter the mix. Packed bags with laptops, umbrellas, and other dense metallic objects can trigger more alerts. These false alerts are evidence that the system is looking for weapons rather than letting anything through.

If a system is tuned to ignore laptops or other dense items, it may also miss certain types of weapons. This is a critical consideration for security decision makers: ignoring clutter isn't just about convenience; it can mean missing real risks.

Can Express Be Used On Its Own?

Evolv Express is a trusted solution that many venues rely on as their primary screening system. It's designed to screen people efficiently, supporting a smooth entry experience while maintaining consistent threat detection. Express can operate on its own to meet a wide range of security needs. However, when highly cluttered bags are part of the process, alert rates can rise. This is a common challenge in screening technologies, not unique to Evolv Express. At Evolv, we're committed to advancing detection accuracy and minimizing false alarms. To achieve this, we release regular software updates with the goal to improve performance over time.



How Evolv eXpedite Compliments Express

By pairing Express with eXpedite, you separate the screening of people and bags. eXpedite's high-speed, AI-powered, X-ray screening identifies potential threats in high cluttered bags, allowing Express to focus on screening people at optimal sensitivity and maintain an efficient entry process. Visitors simply place their bags on the X-ray belt, walk through Express at their natural pace, and collect their cleared bags on the other side. eXpedite operates autonomously, using advanced AI to review bag contents and keep the belt moving. It stops only when a potential threat is detected, so operators don't need to interpret X-ray images or decide which bags require further inspection.



Running bags through eXpedite is meant to reduce the potential clutter going through Express, which can help reduce Express alert rates. This reduction in Express alarm rate allows room for Express to be set to higher sensitivity, with the goal to detect smaller concealed weapons on people, while eXpedite reviews bag contents with precision.

School Use Case: Express + eXpedite

The following discusses an early adopter deployment of Express + eXpedite and is an example of one customer's experience. Please note, alert rate can be impacted by factors including but not limited to sensitivity level, bag clutter, and operational and crowd flow. Every environment is unique and results may vary.

In 2024, a school district implemented Evolv Express Gen1 at one school's entrance to screen students and staff. School leaders chose a medium sensitivity setting (level D on a scale of A-G). To help keep alert rates low, students would pass their laptops around the Express system as they walked through.

The following school year, they upgraded to Express Gen 2 and added Evolv eXpedite for bag screening. Instead of passing laptops around the Express system, they were able to pass their entire bag through a dedicated X-ray system. This change, to remove bags from going through Express, allowed Express to operate at higher sensitivity settings while keeping alert rates low.

Results*:

- **Express Gen1 Only:** Express at Level D with a ~5% alert rate
- **Express Gen2 + eXpedite:** Express at Levels E-F with alert rates maintained within 2-6%

The following chart includes both actual and estimated alert rates to show how increasing sensitivity settings in both scenarios could impact alert rates.

 Sensitivity Level	 Express Alert Rate (Express Only)	 Express Alert Rate (Express + eXpedite)
D	5%	1%** 
E	27%**	2% 
F	43%**	6% 
G	60%**	16%** 

*Based on customer's Evolv Insights data comparing the average Express Gen 1 alert rate at Level D through 2024 with the Express Gen 2 alert rate range at Levels E-F, when deployed together with eXpedite for bags, through 2025. Expedite systems will also generate alerts, but Expedite alert rates for this scenario are not available.

**Percentages shown for sensitivity levels that were not continuously run are estimates derived from operational data using Evolv Insights' What-If analysis.

How Express Compliments eXpedite

Evolv Express remains a vital part of a comprehensive weapons detection strategy, even when paired with eXpedite. Express is designed to empower the people operating the technology, because technology alone doesn't stop threats, people do. Express provides security teams with clear, actionable information, showing exactly who triggered an alert and where to focus their attention, so operators can quickly and confidently conduct secondary searches. This targeted approach is designed to reduce guesswork, speed up resolution to help keep lines moving. Having Express isn't redundant; it's the ideal tool for screening people, while eXpedite is purpose-built for bags.



Integration isn't just possible, it's built in. Express and eXpedite were designed to work together under the same tablet interface, cloud portal, and system management. No extra set up complexity, just alignment for one unified solution.

This integration delivers:



Operational Efficiency: For operators, one tablet for alert resolution enables quick response and less confusion. For admins, both systems can be monitored and managed from the same web portal.



Centralized Data: Unified analytics in one portal enables trend analysis, reporting, and continuous improvement without juggling multiple systems.



Scalable Implementation: Because Express and eXpedite run on a single integrated platform, it's simple to implement. Adding lanes or checkpoints doesn't mean more isolated systems, complex hookups, or extra software integrations, everything remains connected and consistent.

Weapons detection is about minimizing risk and supporting efficient operations. Evolv Express and Evolv eXpedite together offer the right tools for the right job, delivering security that's layered, flexible, and designed for today's challenges.

Learn more about real-world weapons detection:

eccoinc.com/evolv



About Evolv Technology

Evolv (NASDAQ: EVLV) is designed to transform human security by helping organizations detect potential threats, mitigate risk, and enhance safety using AI-powered security solutions with robust insights. Our technology has helped to create efficient and positive security screening experiences for the world's most iconic venues and companies as well as schools, hospitals, and public spaces. Evolv's mission is to create a safer world to live, work, learn, and play. Evolv's advanced systems have scanned more than 4 billion people since 2019. Evolv Express® and Evolv eXpedite™ have been awarded the U.S. Department of Homeland Security (DHS) SAFETY Act Designation as a Qualified Anti-Terrorism Technology (QATT). Evolv and its products have been awarded numerous awards which can be viewed on our [Certifications and Awards](#) web page. Evolv®, Evolv Express®, Evolv Insights®, and Evolv eXpedite™ are registered trademarks or trademarks of Evolv Technologies, Inc. in the United States and other jurisdictions. For more information, visit evolv.com.