evolv

Autonomous X-Ray Screening

Evolv eXpedite™

Efficiently Screening a High Volume of Visitors with Bags Can Be Challenging.

Security teams are constantly looking for ways to streamline the entry screening process.

Handling a large volume of people that have many bags can create a "high clutter" environment, making the task difficult. While it's important to keep the flow of visitors moving to maintain a positive visitor experience, it's also important to maintain a high level of security without overburdening the security staff.

One way to manage high clutter bag environments is to use X-ray bag scanners alongside the screening systems that people walk through. But X-ray bag scanners that require highly trained operators to identify threats in the X-ray image may place a burden on the security staff and can slow down the entry process.

Please Note: Infeed/Outfeed tables are optional and sold separately.

Evolv eXpedite and Evolv Express® for Concealed Weapons Detection

Evolv partners with schools, hospitals, performing art centers, stadiums, industrial workplaces, and other venues to offer a modern solution for security professionals seeking to balance safety with a positive visitor experience. Trusted by 1000+ customers, Evolv Express provides concealed weapons detection that uses advanced sensor technology and artificial intelligence to help pinpoint the location of potential threats and differentiate them from many everyday items. Evolv Express has screened over 3 billion people since 2019, designed to screen visitors effectively while helping minimize congestion and disruptions to traffic flow at ingress points.

Evolv Express and Evolv eXpedite are part of the Evolv Safer Experience System™, a connected IoT system that combines intelligent hardware, cloud-based analytics, and integration with other systems to deliver insights and data-driven security operations.

Evolv eXpedite™
AI-Based Weapons Detection for Bags

Evolv eXpedite is a purposed-built X-ray scanner designed to work autonomously to detect many concealed threats in bags. Evolv eXpedite works alongside Evolv Express® to help provide a layered security approach to concealed weapons detection.

How Evolv eXpedite Works with Evolv Express

Evolv eXpedite can be positioned next to Express so that people can place their bags on the eXpedite conveyer belt as they are walking through the Express system. The speed of the eXpedite belt—about 0.75 m/sec—aims to allow people to walk through at their normal walking pace. Then they can simply pick up their bags on the other side and keep going.

Evolv eXpedite is designed to autonomously scan the bags on the conveyer belt to detect potential threats. The system uses advanced AI and high-speed x-ray imaging technology to distinguish potential threats from many everyday items. If a threat is detected, the green lights on eXpedite turn red and the conveyer belt automatically stops. A connected tablet, also used for Express alerts, shows the bag's image to highlight the bag containing the potential threat and further X-ray image detail to aid resolution.

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Tablet is optional and sold separately from eXpedite system. For existing Evolv Express customers, eXpedite is supported with the Evolv tablet. Reach out to Evolv representative for more information.

The combination of "Red Light / Green Light" output and the Evolv tablet that identifies the bag to search, aims to make it easy for security staff to operate Evolv eXpedite. They don't need to continuously monitor a computer screen to identify potential threats and determine whether to stop the belt or not. And they don't need specific training to interpret an X-ray image.

Using Evolv eXpedite in conjunction with Express aims to allow Express to run at a higher sensitivity level with the goal to keep false alarm rates (FAR) low. This means that the combined solution is designed to detect more threats without putting an excess burden on security teams.

Evolv eXpedite Delivers

- Autonomous threat detection of concealed weapons in bags

- High throughput of people walking at their normal pace through Express while their bags are being scanned by eXpedite

- Red light/green light operation aims to eliminate the need for X-ray image interpretation and accompanied training

- The Evolv Tablet is available to help identify the bag with the potential threat(s) to support resolution

- Eliminates workarounds such as taking out laptops and passing them around the walkthrough screening system

- The ability to operate Evolv Express at higher sensitivity levels with the goal to keep FAR low

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