

# SAMI-AEC Masseh

## Optimizing Facility Security & Operations with Automated Undercarriage Checks

SAMI-AEC Masseh, a compact and cost-effective system, leverages innovative AI algorithms to inspect the undercarriage of vehicles automatically. This, in turn, enhances the vehicle screening process at checkpoints, elevating physical infrastructures' security across Saudi Arabia.

### Key Features

|                                      |   |
|--------------------------------------|---|
| Machine vision camera                | Delivers high-resolution undercarriage image                                    |
| Regulated multi-zone lighting system | Provides uniform image contrast   |
| AI-powered image stitching           | Presents complete, undistorted view of the undercarriage                        |
| Scanning & LPR/ANPR camera           | Identifies vehicles and people of interest                                      |
| Intelligent image comparison         | Reveals any changes or anomalies by comparing scans to a stored reference image |
| Magnetic field sensor                | Detects items fixed with magnets, or too small to see                           |
| 3D magnifier                         | Examines suspicious areas under vehicle in more detail                          |
| Camera dome protection               | Protects the system's core component for long-term reliability                  |
| Remote camera cleaning               | Offers remote washing and drying of camera protective dome                      |
| Durable design                       | Withstands harsh weather and heavy use for uninterrupted operation              |
| Customizable user interface          | Ensures seamless vehicle passage checks workflow                                |

### Top Applications

|   |  |  |
|---|--|--|
|  <p>Search the vehicle's undercarriage for damages and anomalies</p>                 |  <p>Detect explosives and dangerous objects</p> |  <p>Assure total protection across</p> <ul style="list-style-type: none"><li>➤ Airport + Seaport Checkpoints</li><li>➤ Industrial Enterprises</li><li>➤ Customs+ Border Patrol</li><li>➤ Critical Infrastructure+ Restricted Areas</li><li>➤ Large Venues + Arenas</li><li>➤ Federal + State Properties</li></ul> |
|  <p>Ensure only authorized vehicles &amp; individuals gain entry in the premises</p> |  <p>Prevent smuggling of prohibited items</p>   |  |