

Intelligent Vehicle Weighment & Monitoring

Smart Weighing. Smarter Operations.



About ImageLink

ImageLink delivers automation solutions focused on logistics, mining, manufacturing, transportation, and smart infrastructure. Our platforms combine computer vision, OCR, ANPR/LPR, edge processing, and intelligent workflow automation to help organizations improve operational accuracy, security, and throughput.

We specialize in:

- Automatic Number Plate Recognition (ANPR/LPR)
- Weighbridge automation systems
- Industrial OCR solutions
- AI-powered monitoring platforms
- Smart surveillance integrations

Product Overview

Weighbridge Pro is a self-hosted, web-based system that automatically captures vehicle license plates and digital weight display readings from IP cameras with just snapshot API. It is specifically optimised for **non-reflective Indian license plates** (format AA00AA0000) and **7-segment digital weight displays** (e.g., truck weighbridges).

The system runs on any Windows machine and requires **no cloud services** – all processing is done locally. It is ideal for mining sites, logistics yards, factories, and toll booths.

Can be fully customizable as per end user requirement, subject to technical feasibility, budgetary, and time constraints evaluated by the development team.

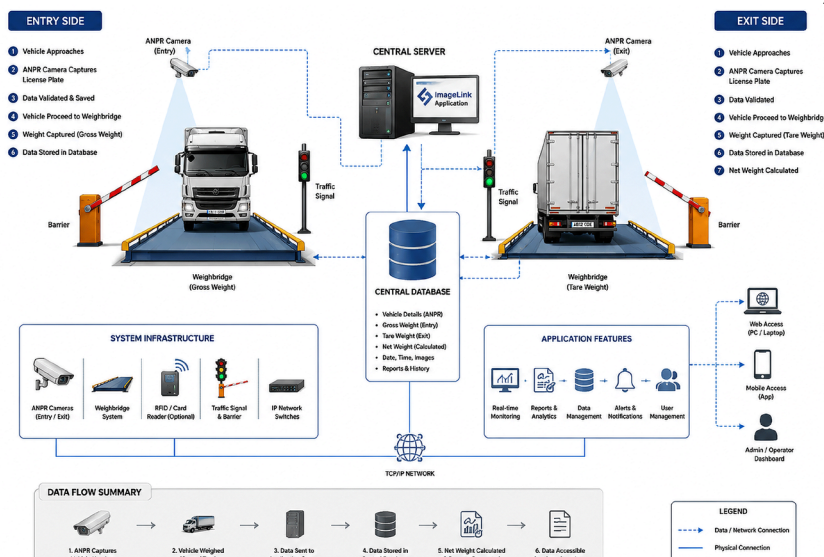
System Architecture

ENTRY SIDE

1. Vehicle Approaches
2. ANPR Camera Captures License Plate
3. Data Validated & Saved
4. Vehicle Proceed to Weighbridge
5. Weight Captured (Gross Weight)
6. Data Stored in Database

EXIT SIDE

1. Vehicle Approaches
2. ANPR Camera Captures License Plate
3. Data Validated & Saved
4. Vehicle Proceed to Weighbridge
5. Weight Captured (Tare Weight)
6. Data Stored in Database
7. Net Weight Calculated



Core Capabilities

- Unified multi-site surveillance monitoring through a centralized command interface.
- Cross-NVR synchronized playback with timeline-based investigation workflows.
- Real-time system health monitoring and event visibility.
- Secure encrypted communication between distributed surveillance sites.
- ONVIF-compliant integration with leading NVR and VMS platforms.
- Scalable architecture supporting enterprise and critical infrastructure deployments.
- Multi-screen playback (1x1, 2x2, 4x4, 16x16).
- Timeline-based video navigation.

Technical Specifications

Technical Category	Details
Deployment Mode	On-Premises / Hybrid Deployment
Supported Platforms	Windows 10 / Windows 11
Framework	.NET Framework 4.8
Database	Microsoft SQL Server Express/ Standard/ Enterprise Version
Integration	ONVIF-Compliant NVRs and Third-Party VMS Platforms
Security	End-to-End Encrypted Communications
Scalability	Supports Multi-Site & Enterprise Deployments
Monitoring	Centralized Health Monitoring & Alert Notifications
Hardware Requirement	Minimum 8GB RAM, CPU 8 Core, GPU Recommended

VPN Gateway Integration

The VPN Gateway architecture establishes a secure communication layer between remote surveillance locations and the centralized ImageLink Fusion Center. This eliminates the dependency on static public IP configurations while enabling secure encrypted transmission across all connected surveillance sites.

- Secure remote access for enterprise surveillance operations.
- Encrypted site-to-site communication.
- Simplified branch connectivity and network scalability.
- Improved privacy and protection of internal network topology.
- Optimized centralized access management.

Business Benefits

- Reduce investigation time through synchronized playback workflows.
- Improve operational visibility across distributed environments.
- Centralize monitoring, administration, and reporting.
- Enhance cybersecurity posture with encrypted communication.
- Support future expansion with scalable multi-site architecture.

Use Cases

- Enterprise Security
- Industrial Facilities
- Retail Chain
- Smart City