# COGNEX

EDGE INTELLIGENCE TUNNEL MANAGER

Gather data and analytics from vision tunnels for real-time insights into logistics operations

Gain actionable insights into your logistics operations to minimize downtime and maximize throughput. Built upon Cognex's Edge Intelligence software platform, Tunnel Manager provides tools to setup, monitor, and optimize Modular Vision Tunnels.This software provides:

- **Tunnel Analytics:** Rich, contextual insights into tunnel performance
- **Setup and Commissioning:** Repeatable, reliable installation of Modular Vision Tunnels
- **Data Forwarding:** Easy integration with on-premise and cloud-based data systems
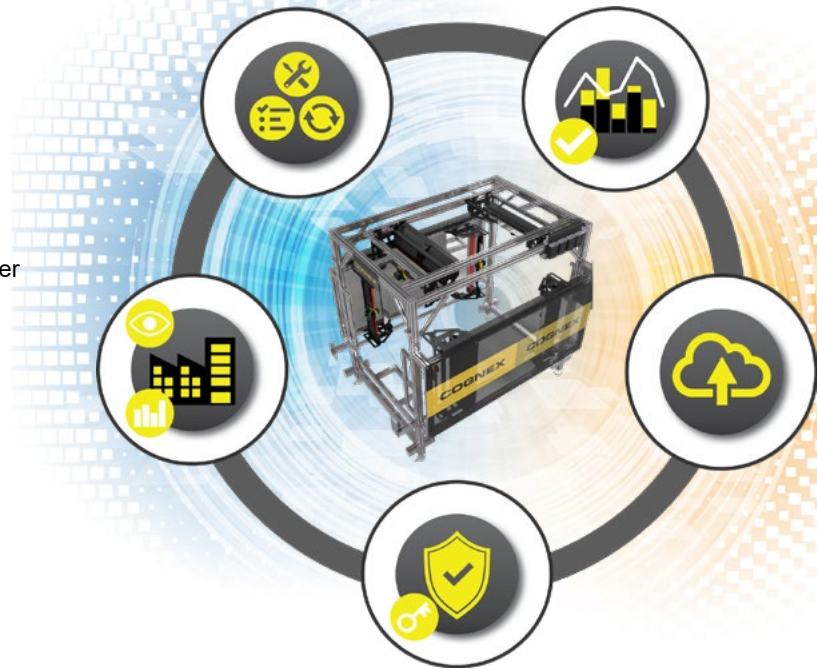
Tunnel Analytics

Rich, contextual insights into tunnel performance

Increase visibility into your operation through the collection, aggregation, and analysis of data from multiple devices simultaneously. Generate insights into tunnel performance, vendor compliance, and more to aid operational efficiency and revenue recovery initiatives. View a live stream of result and image data remotely to keep tabs on your system in real time. Query and filter data to view meaningful triggers that can help pinpoint root causes of performance issues.

Setup and Commissioning

Quick and easy deployment of Modular Vision Tunnels

Step-by-step wizards make tunnel commissioning easy by automatically discovering devices and identifying their physical locations so name and network settings can be automatically pushed. Dynamically validate belt coverage, box gapping, and box height requirements.
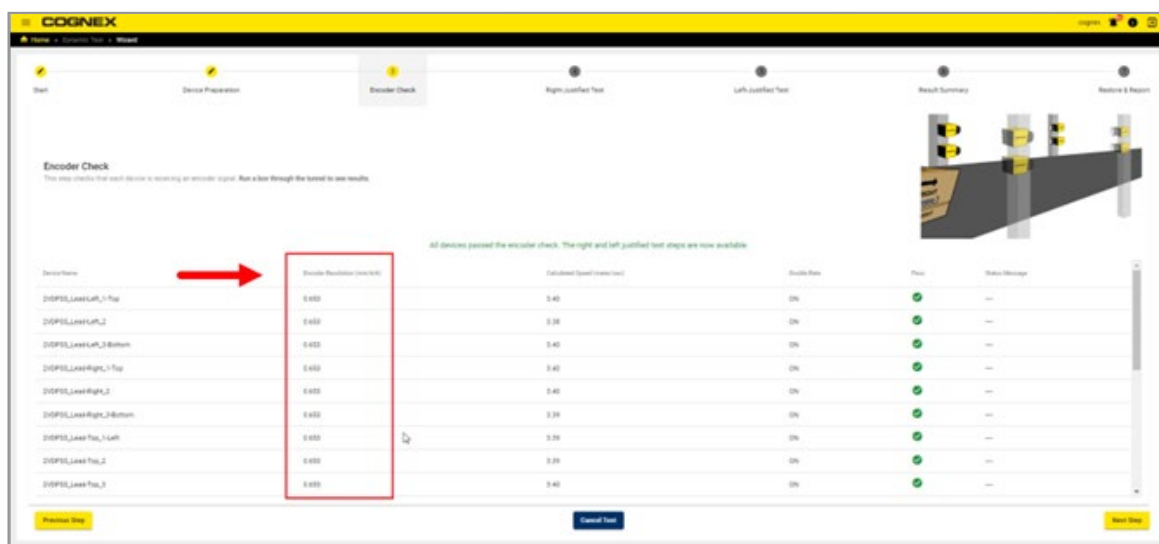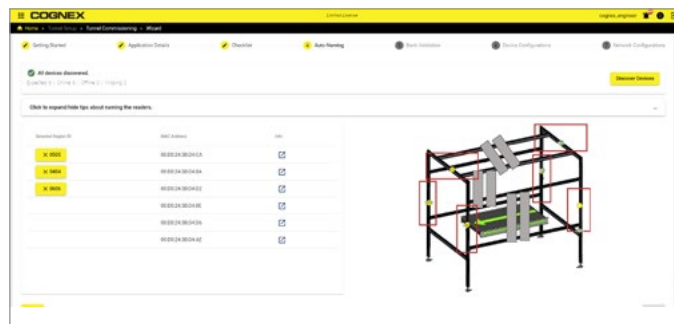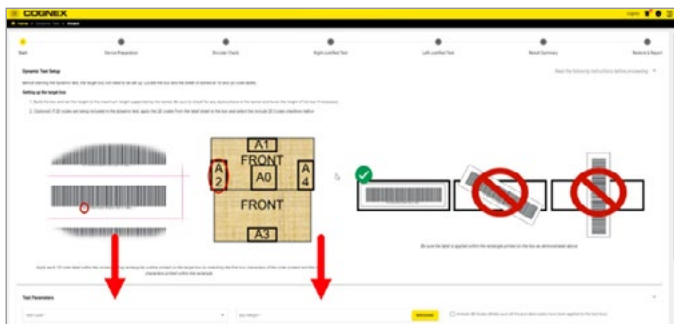
Data Forwarding

Accelerate integration with your existing data systems

Connect data over secure MQTT to the cloud or other platforms (SCADA/HMI) to enhance your operation. Data Forwarding includes out-of-the-box connectivity to Microsoft Azure, Amazon Web Services, and SCADA systems such as Ignition.

Customers can forward data to the cloud or Ignition with a few clicks.

- Integration with Azure, AWS, and Ignition
- Data recording and export capabilities

Edge Intelligence Tunnel Manager Features

Setup and Commissioning

- Tunnel Commissioning App
- 3D Field Calibration App
- Dynamic Test

Data Connectivity

- MQTT
- Ignition
- Azure
- AWS

Kiosk Mode

Tunnel Analytics

- Live Dashboard
  - Tunnel Health Status
  - Live Camera View
- Results Browser
  - Image and Result History
  - Advanced Queries
  - Data Export
- Performance Dashboard
- Threshold-based Alerting
- Configuration Change Tracking

Enhanced Security

- Single Sign-On (SSO)
- HTTPS Option

COGNEX

Companies around the world rely on Cognex vision and barcode reading solutions to optimize quality, drive down costs and control traceability.

Corporate Headquarters   One Vision Drive Natick, MA 01760 USA

Regional Sales Offices

Americas		**Asia-Pacific**			
North America	+1 844 999 2469	Ireland	+353 21 421 7500	India	+91 7305 040397
Brazil	+55 11 4210 3919	Italy	+39 02 3057 8196	Indonesia	+62 21 3076 1792
Mexico	+800 733 4116	Netherlands	+31 207 941 398	Japan	+81 3 5977 5400
		Poland	+48 717 121 086	Korea	+82 2 539 9047
Europe		Romania	+40 741 041 272	Malaysia	+6019 916 5532
Austria	+43 800 28 16 32	Spain	+34 93 299 28 14	New Zealand	+64 9 802 0555
Belgium	+32 289 370 75	Sweden	+46 21 14 55 88	Phillipines	+63 2 8539 3990
Czechia	+420 800 023 519	Switzerland	+41 445 788 877	Singapore	+65 3158 3322
France	+33 1 76 54 93 18	Turkey	+90 216 900 1696	Taiwan	+886 02 7703 2848
Germany	+49 721 958 8052	United Kingdom	+44 121 29 65 163	Thailand	+66 6 3230 9998
Hungary	+36 800 80291			Vietnam	+84 98 2405167
		Asia-Pacific			
		Australia	+61 2 7202 6910		
		China	+86 21 5875 1133		

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