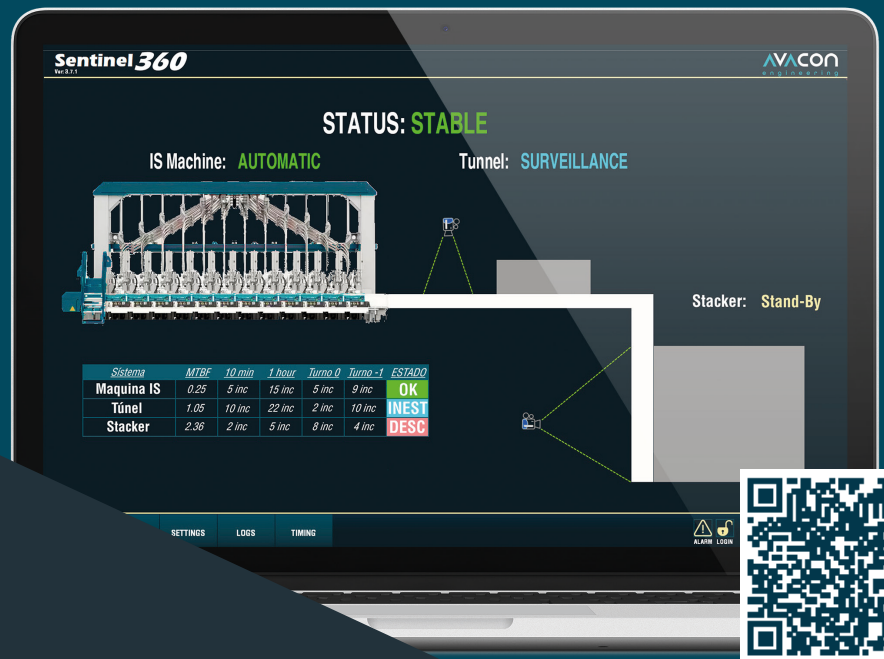


SENTINEL 360



From detection to prevention: controlling the entire hot zone before incidents impact production.

General Features

- ✓ Complete hot-zone surveillance platform.
- ✓ Artificial vision and AI-based incident detection.
- ✓ Real-time monitoring of critical production areas.
- ✓ Automatic event classification and alarm generation.
- ✓ Guided intervention and synchronized rejection control.
- ✓ Continuous recording and historical event storage.
- ✓ Live supervision dashboard.
- ✓ Integration of images, signals and process information.
- ✓ Hot-zone coverage beyond the IS machine.
- ✓ Industrial installation designed for glass manufacturing environments.

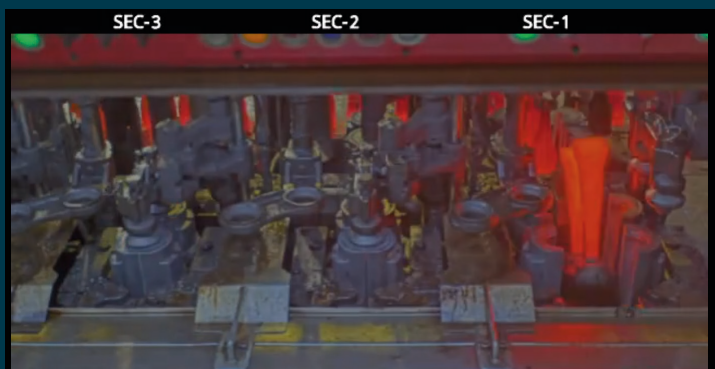
Preventing incidents before they become downtime

SENTINEL 360° improves production stability by detecting fires, jams, positioning errors, fallen containers and abnormal process conditions in real time. By anticipating risks and synchronizing corrective actions, the system reduces manual intervention, increases equipment availability and improves overall production efficiency.



One intelligent layer protecting
the entire hot zone.

SENTINEL 360



Distributor Monitoring

- NIR and HD RGB vision system.
- Early fire detection.
- Jam detection.
- Continuous monitoring with instant alarms.
- Event recording and historical database.

Blank Side Surveillance

- Fire detection.
- Misplaced glass detection.
- AI-powered image analysis.
- Real-time alarms.
- Automatic video recording.

IS Machine Monitoring

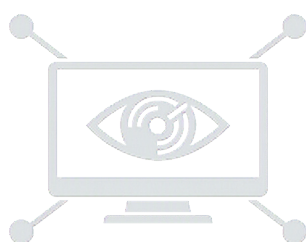
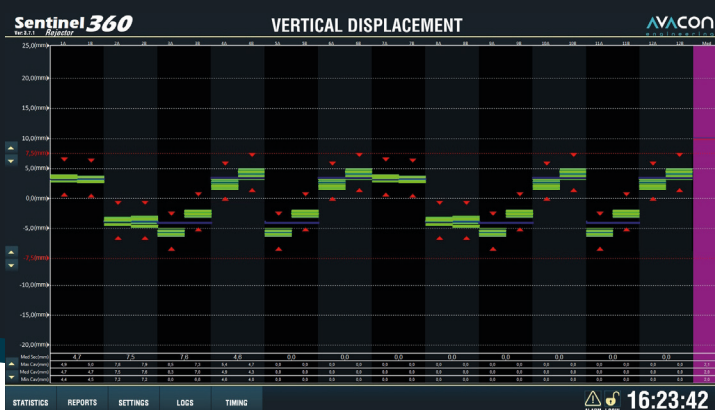
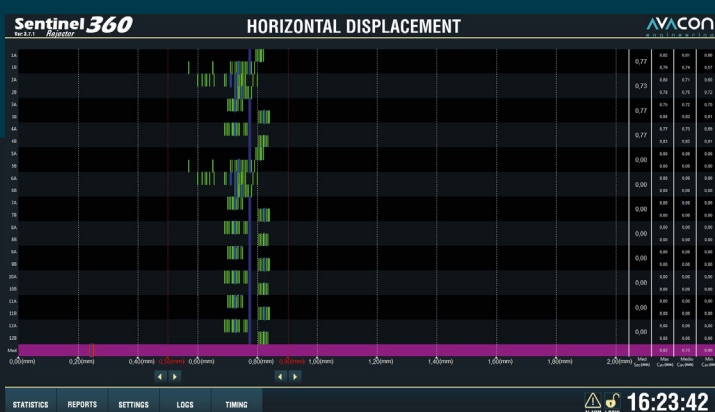
- Detection of jams and transfer failures.
- Container accumulation control.
- Automatic corrective actions.
- Production incident management.
- Historical event analysis.

Tunnel Monitoring

- Bottle tracking in motion.
- Spacing verification between containers.
- Conveyor position monitoring.
- Rejection process surveillance.
- Tunnel jam anticipation.

Stacker Surveillance

- Bottle alignment verification.
- Fallen bottle detection.
- Detection of stacker bottle drops.
- Accumulation monitoring.
- Early identification of production disruptions.



Centralized Monitoring

A single dashboard brings together live images, process signals and alarm information to provide complete visibility of hot-zone operations. Detailed cavity and section monitoring enables rapid diagnosis of production issues, helping operators respond faster and maintain stable production performance.