

SIVAO-Chairlift is the
«Système Intelligent de Vigilance Augmentée par Ordinateur»
(Smart Computer-Enhanced Vigilance System)
which helps drivers detect dangerous situation
when passengers board chairlifts, and which analyzes the number
of passengers on each chair, using tried-and-tested
artificial intelligence technology for processing video images.
Valuable operation assistance.



- » 4 patents
- » 100 equipped chairlifts in 42 mountain resorts
- » tried and tested since 2015
- » very high algorithmic performance for detection
- » reliable in all weather conditions
- » ensures safe passengers boarding
- » rescue assistance
- » increases operators comfort

Compatible ✓ new ropeways ✓ existing ropeways



bluecime



DESCRIPTION

SIVAO-Chairlift system is a camera-based operation assistance system for chairlifts boarding and ridership, with enhanced vigilance.

It performs real-time video analysis when carriers exit the station, using artificial intelligence.

SIVAO = Smart Computer-Enhanced Vigilance System.

FEATURES & BENEFITS

Safety of users while boarding

Detection and warning of dangerous situations (safety bar not lowered, incorrect boarding, unaccompanied child, etc.), with the possibility of automatically slowing down the system or letting the operator take control.

Warning light for users when the safety bar is not closed.

Sound and/or light warning systems are used to alert operators in the station.

Option of real-time access to images transmitted by the high-definition camera.

Differentiation of children and adults with the configuration of specific alerts.

Passengers counting and rescue assistance

The system counts the number of passengers (distinguishing between adults and children) per carrier and calculates the ridership of the chairlift throughout the operating period (daily, monthly, annual statistics).

SIVAO-Chairlift gives the real-time distribution of passengers on the line and links each chair with the picture taken by the camera when it exits the station.

This makes it possible to decide which chairs should be given priority in the event of an evacuation.

Monitoring web interface

SIVAO-Web displays the status of a chairlift in real time, based on the measured data (distribution of passengers on line, chairs pictures, ridership, safety bar closure status).

It assists the ropeway operator during operation and evacuation.

SIVAO-Web provides an overview of all data gathered on all the equipped lifts.

SIVAO-Web data can be used in SKADII.

Configurable system for sending notifications about all lifts status via SMS or email.

ENVIRONMENT

► Developed, integrated and assembled by BLUECIME.

► System adaptable to all chairlifts configurations. Installed locally by POMA or BLUECIME teams.

► Reduced energy consumption through the combination of SIVAO and ECODRIVE solutions allowing the ropeway system speed to be adjusted according to the queue length and the actual carrier occupancy rate.

Maintenance limited to occasional cleaning of the camera.

Remote troubleshooting possible.

Only one camera per loading area for analysis of all carriers.

Low environmental impact compared to using an individual solution on each chair.

