



SWISS TRAFFIC
we innovate mobility

SWIROO
PART OF SWISSTRAFFIC

AI | SWISSBIKE+PED CROWD

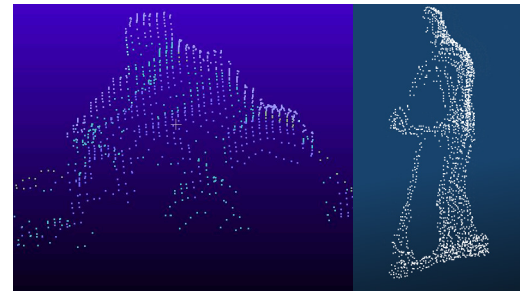


Simultaneously counts cyclists and pedestrians in all directions on paths with a width of up to 4 metres. Combinable with an LED display. swissBIKE+PED CROWD counts also e-scooters.

SOPHISTICATED LASER TECHNOLOGY

The sensor uses a “laser curtain” that is defined during installation to log the cross section in a sequence of consecutive scans (every 16 ms). The laser uses this information to generate a 3D image that is analysed by the algorithms to determine the correct classification. The system accurately registers the direction of travel by detecting which of the 4 laser lanes are reached first by a cyclist, an e-scooter or a pedestrian.

The sensor is equipped with a CPU. All signals from the laser scanner are processed directly. A 4G modem is also installed in the laser to transmit text data (no images) to a server in real-time.



A cloud of points indicating a bicycle and an e-Scooter. The sensor software is able to distinguish cyclists, e-scooters and pedestrians.



A typical system for counting bicycles consists of a laser scanner and an LED display.



swissBIKE+PED CROWD has a neatly arranged, proprietary dashboard.



IDEAL APPLICATION AREAS

- Counting cyclists and persons
- Counting tourists and hikers
- Counting e-scooters

TECHNICAL FEATURES

- Laser technology
- LED display
- Solar fixed counting station
- Accurate lane tracking
- Real-time data
- Proprietary dashboard

COMBINABLE PRODUCTS

swissSERVICES



OPTIONS	DESCRIPTION
Counting for pedestrian and bicycle paths	<ul style="list-style-type: none"> Bicycle/pedestrian classification Multi-lane detection Group detection Driving and walking direction High counting accuracy
Continuous counting	<ul style="list-style-type: none"> Optionally with solar panel or battery pack for fixed installations without continuous power supply
Components	<ul style="list-style-type: none"> Laser scanner to detect bicycles and people LED display to indicate the survey Central software to collect data Data is analyzed in real time with the integrated AI software and displayed on the dashboard
Evaluations	<ul style="list-style-type: none"> Live data at any time (per counting sensor) Exportable as csv file (Excel) Data can also be forwarded to customer servers in real time

SIZE: 295x255x205 mm

WEIGHT: 6.5 Kg (4.5 Kg sensor + 2 Kg bracket)

BOX: Reinforced polyester

PROTECTION CLASS: IP 65

POWER SUPPLY: 12 or 24 V (depending on version; check label on box)

POWER CONSUMPTION: Average 6W. Average at low temp. 15W. Max at startup 25W.

DETECTION DISTANCE: 30 m

WORKING TEMPERATURE: -40°C to +60°C

COMMUNICATION: Ethernet

CONNECTORS: According to models (Ethernet, 7-pole, 4-pole, 3-pole)

TECHNOLOGY: Laser scanner

NUMBER OF LEVELS: 4

POINTS PER LEVEL: 274

EMMITTED LIGHT: 905 nm (invisible)

LASER CLASS: 1

RANGE: 30 m

OPENING ANGLE: 96 degree

SAMPLING RATE: 16 ms

SMART MOBILITY SOLUTIONS
PRODUCT CATALOGUE

