

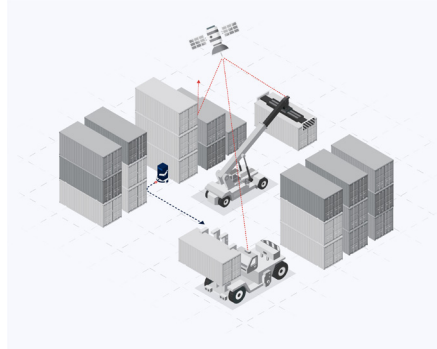
# FIXPOSITION

Precise global positioning everywhere™

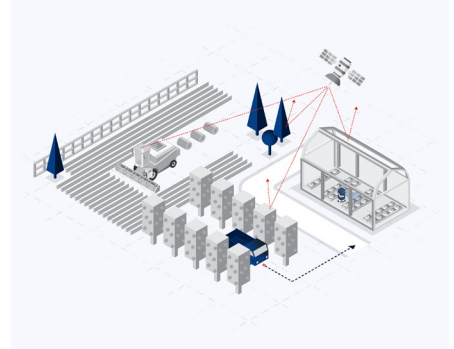
## THE GNSS CHALLENGE



GNSS fails under bridges and near tall buildings



GNSS degrades near large structures



GNSS degrades near trees and in greenhouses

## OUR UNIQUE SOLUTION



### Vision-RTK 2 + SWISS MADE

Built for precise positioning in GNSS degraded and denied areas

The Vision RTK-2's proprietary deep sensor fusion technology provides reliable and precise real-time global positioning that enables autonomous navigation systems to operate in a multitude of GNSS challenging environments.



Real-time and highly-accurate global positioning



Seamless integration for fast market entry



Off-the-shelf solution ready for evaluation



Compact and lightweight solution

WATCH OUR PRODUCT PERFORMANCE VIDEOS



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## Technical details

Maximum output rate	100Hz
Positioning accuracy (RTK Fix only)	1.0 cm + 1 ppm R50
Heading accuracy	0.4° (1 m baseline)
Velocity accuracy	0.1 m/s
Maximum velocity	22 m/s
Position error as % if distance traveled in GNSS outages	0.75 % <sup>1</sup>
Acquisition time	25 s (cold start)

## Communication and configuration

Data formats	NMEA, ROS1, ROS2, Fixposition messages, others
Operation modes	Automotive, Generic, Lawnmower, Ground robot
RTK correction format	RTCM3
Data interfaces (input/output)	UART, TCP, CAN
Time synchronization	PPS, PTP, NTP

## Hardware

Dual RTK receivers	Supported GNSS constellations <ul style="list-style-type: none"><li>· GPS/QZSS (L1C/A, L2C)</li><li>· Galileo (E1B/C, E5B)</li><li>· Beidou (B1I, B2I)</li><li>· GLONASS (L1OF, L2OF)</li></ul>
Camera	CMOS with global shutter, 120° DFOV
IMU	Accelerometer and gyroscope
Internal storage	16 GB flash memory
Time synchronization	PPS, PTP, NTP

## Interfaces

Wired inputs/outputs	2x UART, CAN, Ethernet, USB-C
Wireless	Wi-Fi 802.11 ac/a/b/g/n
GNSS antenna connector	2x SMA
Camera inputs	2x MIPI CSI-2

## Electrical specifications

Supply voltage range	5–36 V DC
Typical power consumption	10 W

## Mechanical specifications

Dimensions (L × W × H)	114 × 129 × 30 mm
Weight	420g

## Environmental specifications

Operating temperature	-30°C to +85°C
Certifications	IP66 - water and dust resistance

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