REACH RS+

RTK GNSS receiver with an app as a controller

Reach RS+ is ever-ready to do surveying, mapping
and data collection with cm accuracy

What's inside

Multi-system support

GPS, GLONASS, BeiDou, Galileo, QZSS, SBAS

Dual-feed antenna

With tight phase center variation

Long range radio

LoRa 868/915 MHz for reliable connection on distances up to 8 km

30 hours battery

LiFePO4 battery, USB charging, external 5–40V input

8 GB of storage

Built-in memory for logs

For survey and navigation with centimeter accuracy

Reach RS+ can deliver centimeter-accurate coordinates over multiple wireless or wired channels making it a universal tool for all kinds of precision-demanding applications.

Base station

Use Reach RS+ to set up your own base station. Stream corrections over the network via NTRIP/TCP or LoRa radio. Record base logs for post-processing.

Correction format: RTCM3.
Log format: RINEX.

Point stakeout

Point Stakeout feature available in the app allows you to import a list of points of interest. Follow the app's guidance to reach the exact spot.

Importing formats: DXF, GeoJSON And ESRI Shapefile

Point collection

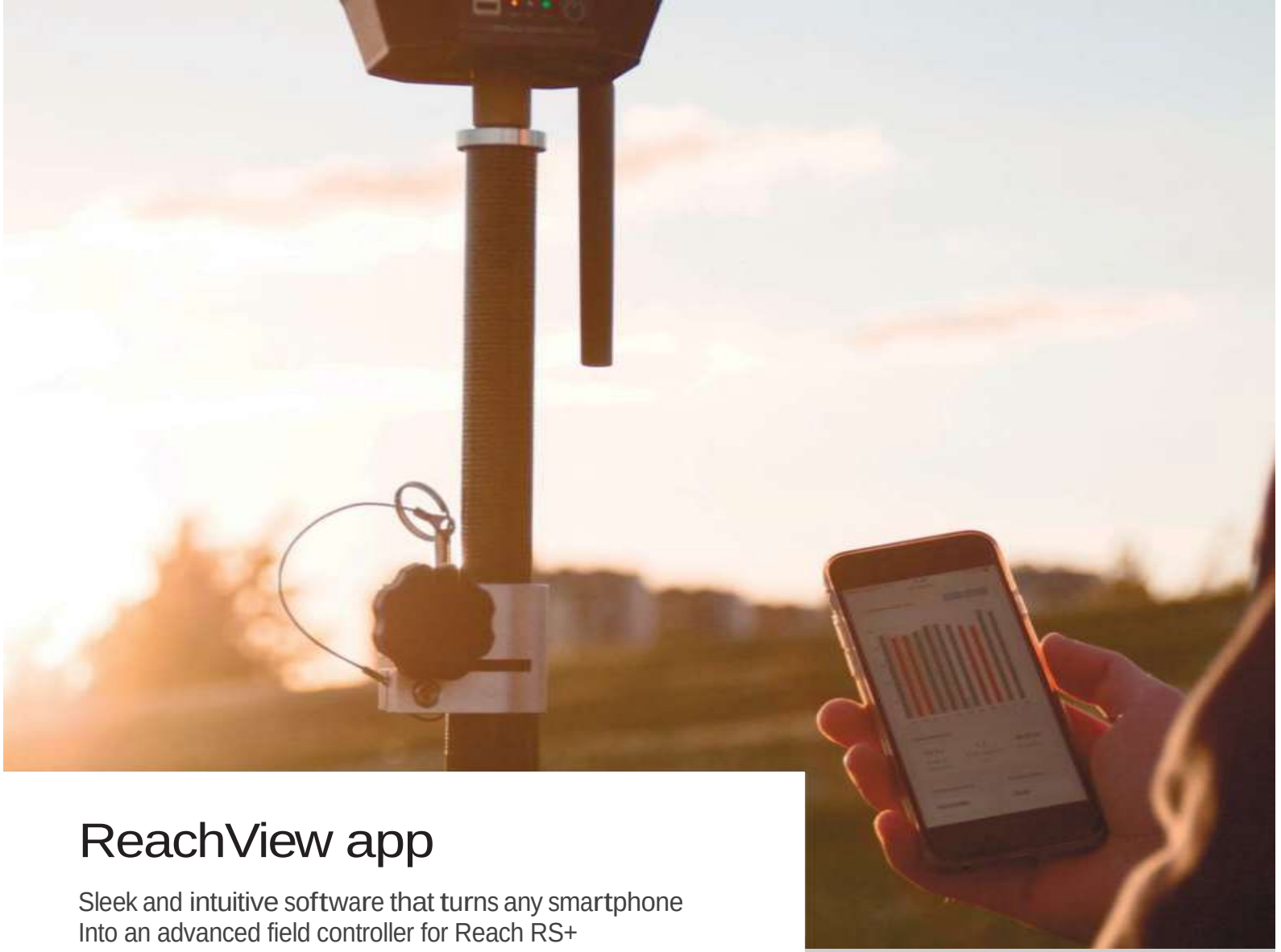
With Reach RS+ you can create survey projects to manage data collection. When working in the field each point is assigned a custom name and offset. Results can be downloaded from the project list.

Exporting formats: CSV, DXF, GeoJSON And ESRI Shapefile

Machinery guidance

Reach RS+ is able to provide precise coordinates over Bluetooth/Wi-Fi to your tablet with a lightbar navigation app. RS232 interface allows to connect Reach RS+ directly to an autosteer system.

Solution formats: NMEA, ERB, plain text.
Compatible apps: MachineryGuide, AgriBus-Navi, Efarmer.



ReachView app

Sleek and intuitive software that turns any smartphone
Into an advanced field controller for Reach RS+

Helps with setup

Easily configure correction input, solution output, update rate and satellite systems in use. Manage Wi-Fi and Bluetooth connections.

Surveying tools

Built-in tools for data collection. Record geolocations with specified accuracy. Import and export in industry standard formats.

Status monitoring

ReachView shows current satellite signal strength, constellation visibility forecast, your location on a map and much more.

Log management

Logs are automatically recorded in internal memory. View a list of the logs and download them using the ReachView app.

ReachView is available on:

Field-ready

Rugged casing

Tough polycarbonate shell is specially crafted to protect Reach RS+ from falling and everyday wear.

IP67 certified

Sealed enclosure makes Reach RS+ water- and dustproof allowing it to work in any weather.

-20...+65°C

Industrial grade components ensure smooth operation no matter what the season is.

Reach RS+ specifications

MECHANICAL	
Ingress protection:	IP67 (water- and dustproof)
Size:	145 x 145 x 85 mm
Weight:	690 g
Operating temperature:	-20...+65 °C

ELECTRICAL	
Battery life: Charging	30 hours
port: External power	Micro-USB
input:	5–40 V
&HUWLĆFDWLRQV	FCC, CE

CONNECTIVITY	
Interfaces:	USB, RS232,
	PPS, Event
Radio: Wi-	LoRa 862–1020 MHz
Fi:	802.11a/b/g/n
Bluetooth:	4.0/2.1 EDR

GNSS	
Signals:	GPS/QZSS L1, SBAS, GLONASS G1,
	BeiDou B1, Galileo E1, SBAS
Update rate:	14 Hz GPS / 5 Hz GNSS
Tracking channels:	72
IMU:	9DOF

POSITIONING	
Static horizontal:	5 mm + 1 ppm
Static vertical:	10 mm + 2 ppm
Kinematic horizontal:	7 mm + 1 ppm
Kinematic vertical:	14 mm + 2 ppm

DATA	
Internal storage:	8 GB
Correction input:	RTCM2, RTCM3
Solution output:	NMEA, ERB, plain text
Logs:	RINEX2.X, RINEX3.X

Emlid

By combining modern hardware with an open-source RTK engine Emlid opens high-accuracy GNSS for everyone and offers a signifcant reduction of expenses for experienced surveyors.

Your local Emlid dealer

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