



High-Accuracy GPS receiver for your smartphone, tablet or notebook computer

The Arrow Lite is designed specifically to use with a variety of mobile devices, including your smartphone, tablet or notebook computer. The Arrow Lite incorporates rock-solid, wireless Bluetooth® technology that works with Android, iOS or Windows® devices, making it obsolete-proof. Contemplating switching from an iPhone to an Android phone or vice-versa? No problem, the Arrow Lite works smoothly with both.

Use the Mobile GIS Software of your choice

Seems like a new Mobile GIS software is being offered each week? With the Arrow Lite you will not be tied to legacy GNSS receiver hardware or GIS software, the Arrow Lite will grow with you. The Arrow Lite feeds submeter accuracy to every app on your Android or iOS device, even Google or Apple maps!

Esri Collector/ArcPad/ArcMobile, Fulcrum, AmigoCloud, TerraFlex, MapItFast, GeoJot, iCMTGIS, the Arrow Lite works seamlessly with all of them and many more mapping apps.

Real-time, World-wide Accuracy

The Arrow Lite takes advantage of the free GPS SBAS corrections available in each geographical region: WAAS in North America, EGNOS in Europe and North Africa, GAGAN in India, MSAS in Japan to provide 60 cm real-time accuracy. For South America, Australia and Central and South Africa, where free SBAS is not available, Eos has partnered with OmniSTAR to offer real-time, sub-meter accuracy.

ARROW Lite™

ARROW Series
for Submeter GPS Positioning

Key Features:

- 100% Android, iOS, Windows compatible.
- 60cm real-time accuracy using free SBAS
- Supports Esri® and other Mobile GIS software
- Supports OmniSTAR®



Works Where Other Receivers Can't

The Arrow Lite was designed specifically with GIS users in mind. It squeezes more accuracy from GPS SBAS corrections than any other receiver in the world. With its patented technology, you can use the Arrow Lite under trees, around buildings and in rugged terrain where other receivers will fail to deliver. Your efficiency will be optimized because you'll get real-time results in the field! No post-processing is required.



Specifications

GPS Sensor

Receiver Type:	L1, C/A code, with carrier phase smoothing
Channels:	12-channel, parallel tracking
SBAS Support:	2-channel, parallel tracking WAAS, EGNOS, MSAS, GAGAN, and compatible
Update Rate:	1Hz Default, optional 10Hz and 20Hz
DGPS Horizontal Accuracy:	< 60cm 2dRMS, 95% confidence ¹ (< 30cm HRMS, < 25cm CEP)
Horizontal Accuracy:	< 2.5m 2dRMS, 95% confidence (autonomous, no SA) ¹
Optional Proprietary RTCM:	< 20cm 2dRMS, 95% confidence ²
Optional L1 RTK:	< 5cm 2dRMS, 95% confidence ²
Cold Start:	60s (no almanac or RTC)
Reacquisition:	< 1s
Maximum Speed:	1607 km/h (999mph)
Maximum Altitude:	18,288m (60,000 ft)

Communication

Ports:	Bluetooth, USB 2.0
Bluetooth Transmission:	Class 1, 300m typical range ³ , up to 1km
Bluetooth Frequency:	2.400 – 2.485 GHz
Fully Bluetooth pre-qualified:	Bluetooth 2.1 + EDR
Supported Bluetooth Profiles:	SPP and iAP
Data I/O Protocol:	NMEA 0183, Binary
Data Output Datum:	ITRF08 (current year epoch)
Raw Measurement Data:	Binary and RINEX
Correction I/O Protocol:	RTCM SC-104, Optional Proprietary format
Status LED:	Power, GPS, DGPS, DIFF, Bluetooth
Battery Gas Gauge:	5 LED Indicator

Power

Battery type:	Field replaceable Lithium-Ion pack (Rechargeable in unit or separately)
Battery Capacity:	Battery Operating Time: 15+ hours ⁴
Charging Time:	4 hours (vehicle charger available)
Antenna Voltage Output:	5 VDC
Antenna Input Impedance:	50 Ohms

Environmental

Operating Temperature:	-40°C to +85°C (-40°F to +185 °F) ⁴
Storage Temperature:	-40°C to +85°C (-40°F to +185 °F) ²
Humidity:	95% non-condensing
Compliance:	FCC, CE, RoHS and Lead-free

Mechanical

Enclosure Material:	Re-enforced Nylon & ABS
Enclosure Rating:	Waterproof, IP-67
Immersion:	30cm, 30 minutes
Dimensions:	12.5 x 8.4 x 4.2 cm (4.92 x 3.3 x 1.65 in.)
Weight:	372g (0.82 lbs)
Data Connectors:	Mini USB Type B Receptacle
Antenna Connector:	SMA Female

Antenna

GPS Frequency Range:	L1 (1575 MHz +/- 10 MHz)
Gain (without cable):	26.5 dB (+/- 2 dB), 35mA
Voltage:	+5 VDC +/- 10%
Impedance:	50 Ohms
Dimensions:	5.5 diam. x 2.2 cm (2.16 x .87 in.)
Weight (without cable):	79g (.17 lbs) (with removable magnet mount)
Antenna Connector:	SMA Female
Finish:	Fluid Resistant
Temperature:	-55°C to +85°C (-67°F to +185 °F)
Humidity:	Immersion 30 cm

Standard Accessories

Li-Ion Battery Pack (Field replaceable)
12VDC Power Supply
Belt/Shoulder Carrying Case
Precision Antenna with 1.5m cable
Soft Hat for antenna
USB cable

Field Activated Options

10Hz or 20Hz Output Rate
Base Station RTCM Output
Proprietary Real-time for <20cm
L1 RTK for <5cm

NOTES :

1. Depends on multipath environment, number of satellites in view, satellite geometry, baseline length (for local services) and ionospheric activities
2. Option required on both base and rover. Also requires communication link between base and rover
3. Transmission in free space
4. Lithium-Ion battery performance degrades below -20°C (-4°F)

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