The World’s First RTK Receiver for Every Mobile Device

The Arrow 200® is the world’s first GNSS receiver able to provide 1 cm real-time accuracy on your Android, iOS, and Windows mobile device. Yes, you can enjoy 1 cm accuracy on your iPhone or Samsung Galaxy running Esri Collector for ArcGIS, Survey123, or whatever field data collection software you prefer.

Designed for use with a broad range of mobile devices, from smartphones to tablets and notebook computers, the Arrow 200 incorporates rock-solid, wireless Bluetooth technology that works smoothly with Android, iOS, and Windows devices, making it obsolete-proof and portable across platforms.

Use the Mobile GIS Software of Your Choice

Seems like a new mobile GIS software is being offered each week? With the Arrow 200 you will not be tied to legacy GNSS receiver hardware or GIS software, it will grow with you. The Arrow 200 feeds 1 cm RTK accuracy to every app on your Android or iOS device, even Google or Apple maps! Esri Collector for ArcGIS, Survey123, QuickCapture, AmigoCloud, Mapit, Futura, iMTGIS PRO, it works seamlessly with all of them and many more mapping apps.

Uses All Four Global Constellations

The Arrow 200 incorporates premium features that place it among the highest performing receivers in the world. It takes advantage of all existing satellite constellations: GPS, GLONASS, Galileo, BeiDou, and free SBAS corrections, to deliver top-notch, 1 cm RTK performance anywhere in the world when connected to an RTK network or base station.
### GPS Sensor

**Receiver Type:** GNSS dual-frequency RTK with carrier phase  
**Signals Received:** GPS, GLONASS, Galileo, BeiDou  
**Channels:** 372-channel, parallel tracking  
**Number of Tracked Satellites:**  
- 12 GPS (15 when no SBAS)  
- 12 GLONASS  
- 15 Galileo  
- 22 BeiDou  
**SBAS Support:** 3-channel, parallel tracking  
**Update Rate:** 1 Hz Default, optional 10 Hz and 20 Hz  
**RTK Accuracy:**  
- 1 cm + 1 ppm Horizontal  
- 2 cm + 1 ppm Vertical  
**SBAS Accuracy:** <30 cm HRMS  
**Autonomous Accuracy:** 1.2 meters HRMS  
**Cold Start:** < 60 sec typical (no almanac or time)  
**Reacquisition:** < 1 sec  
**Max Speed:** 1,850 kph (1,150 mph / 999 knots)  
**Max Altitude:** 18,288 m (60,000 ft)

### Communication

**Port:** Bluetooth, USB 2.0, serial (optional)  
**Bluetooth Transmission:** Class 1, 300 m typical range, up to 1 km  
**Frequency:** 2.400 - 2.485 GHz  
**Fully Bluetooth Pre-Qualified:** Bluetooth 2.1 + EDR  
**Supported Bluetooth Profiles:** SPP and iAP  
**Data I/O formats:** NMEA 0183, RTCM 104, Binary  
**Output Datum:**  
- Autonomous: WGS-84 (G1674) Epoch 2005.0  
- SBAS: ITRF08 (current year epoch)  
**RTK:** Same as RTK base  
**Raw Measurement Data:** Binary and RINEX  
**Correction I/O Protocol:** RTCM 2.x, 3.x, CMR, CMR+, proprietary binary  
**GNSS Status LEDs:** Power, GNSS, DGNS5, DIFF, Bluetooth  
**Battery Status LED:** 5 LED Indicator  
**Timing Output:** 1PPS, CMOS, active high, rising edge sync.  
- 10 kΩ, 10 pF load (with optional serial port)  
**Event Marker Input:** CMOS, active low, falling edge sync.  
- 10 kΩ, 10 pF load (with optional serial port)

### Power

**Battery Type:** Field replaceable, rechargeable Lithium-Ion pack.  
**Battery Life:** Battery operating time 9+ hours  
**Charging Time:** 4 hours (vehicle charger available)

### Environmental

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

### Mechanical

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

### Antenna

**GPS Freq Range:** 1525 - 1606 MHz, 1164 - 1254 MHz  
**Impedance:** 50 Ohms  
**Gain (no cable):** 30 dB ±2dB  
**Noise Figure:** 2.5 dB Max at 25°C  
**Voltage:** +2.5 to +16 VDC  
**Connector:** SMA female  
**Dimensions:** 69 mm diam. x 22 mm (2.72 x 0.87 in.)  
**Weight:** 170 g (0.374 lbs)  
**Temperature:** -40°C to +85°C (-4°F to +185°F)  
**Humidity:** Waterproof

### Standard Accessories

- Li-Ion Battery Pack (Field replaceable)  
- 12VDC Power Supply  
- Hard Shell Carrying Case  
- USB Cable  
- Multi-Frequency GNSS Antenna  
- Pole Bracket and Clamp  
- Antenna Cable  
- Antenna Mounting Plate

### Field Activated Options

- 10Hz, 20Hz Output Rates

**NOTES:**
1. Depends on multipath environment, number of satellites in view, satellite geometry, baseline length (for local services) and ionospheric activities. Stated accuracies for baseline lengths of up to 30 km.  
2. Transmission in free space  
3. Lithium-ion battery performance degrades below -20°C (-4°F)

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