## Handheld GNSS Receiver Champion MVP



The MVP features the Trimble BD920 receiver module supporting multiple constellations. This delivers the quickest and most reliable RTK initializations for 1-2 centimeter positioning. For applications that do not require centimeter accuracy, the BD920 contains an advanced kalman filter PVT engine that delivers high accuracy GNSS, DGNSS positions in the most challenging environments such as urban canyons.

## **Features**

- Multifunctional handheld GNSS receiver
- ▶ GPS, GLONASS, BeiDou, Galileo
- ▶ 1 cm horizontal, 1.5 cm vertical
- ▶ Handheld or with external antenna
- ▶ Built-in GSM modem
- ▶ IP67 water/dustproof
- ▶ Able to withstand a 6 ft drop to concrete
- ▶ 2 year warranty









Champion MVP

## We will not let you fail.

## **Champion MVP**

GNSS Specifications		
Satellite systems tracked simi	ultaneously	
GPS	L1 C/A, L2C, L2E	
GLONASS	L1, L2 C/A	
SBAS	L1 C/A	
Galileo	E12	
QZSS	L1 C/A, L1 SAIF, L2C	
Performance Specifications		
Static and Rapid Static		
Horizontal	2.5 mm + 0.5 ppm RMS	
Vertical	5 mm + 0.5 ppm RMS	
Code Differential GNSS Positioning		
Horizontal	25 cm + 1 ppm RMS	
Vertical	50 cm + 1 ppm RMS	
SBAS	0.50 m horizontal, 0.85 m vertical	
Post Process Kinematic	•	
Horizontal	1 cm + 1 ppm RMS	
Vertical	2.5 cm + 1 ppm RMS	
Initialization Reliability	Typically > 99.9%	
RTK Surveying		
Horizontal	8 mm + 1 ppm RMS	
Vertical	15 mm + 1 ppm RMS	
Initialization Time	Typically < 8 seconds	
Initialization Reliability	Typically > 99.9%	
Physical Specifications		
Size	211 mm x 100 mm x 58 mm	
Weight	1.4 lbs (635 g) with battery	
Display	3.7 in colorful TFT high resolution, readable under sunlight touchscreen, LED backlight	
Environment		
Operating Temperature	-30 °C to +70 °C (-22 °F to +158 °F)	
Storage Temperature	-40 °C to +80 °C (-40 °F to +176 °F)	
Humidity	100% condensation	
Waterproof & Dustproof	IP67	
Drop	2 m protection	
Electrical		
Battery	Lithium battery, 6200 mAh/3.7 V	
Battery Life	12 hours continuous work	
Charging Time	7 h	

Specifications are subject to change without
notice. Champion, Champion MVP are
trademarks of Champion Instruments, LLC.

	Communication and Data Storage	
-	Internal Memory	64MB
	Camera	2 megapixel
	Internal triple frequency antenna	
-	Data Formats (from 1 Hz positioning output up to 50 Hz) CMR SCMRX, CMR, CMR input and output	
	RTCM RTCM 2.1, RTCM 2.2, RTCM 2.3, RTCM 3.0, RTCM 3.1 input and output	
-	Navigation Outputs ASCII NMEA-0183 GSV, AVR, RMC, HDT, VGK, VHD, ROT, GGK, GGA, GSA, ZDA, VTG, GST, PJT, PJK, BPQ, GLL, GRS, GBS	
-	I/O Interfaces	1x Bluetooth Class 2, 1x standard USB 2.0 port, 1x RS232 serial port, 1x DC power input (8-pin & 5-pin)
-	GSM Modem	Included; Network RTK (via CORS) range 20 - 50 km



eGPS Solutions 4317 Park Drive Norcross, GA 30093 t: 770.695.3361 f: 770.695.0803 info@egps.net www.egps.net

