

Comparison of Carlson BRX7 GPS VS Competitors

	<u>Carlson BRX 7</u>	<u>Trimble R12</u>	<u>Leica GS 18</u>	<u>Topcon Hiper HR</u>
Retail Price	\$12,995	\$27,095	\$28,670	\$33,783
Max Precision	8 mm H / 15 mm V	8 mm H / 15 mm V	8 mm H / 15mm V	5mm H / V: 10mm
Channels	800+	672	555	452
Antenna	Integrated	Integrated	Integrated	Integrated
Memory	8 GB and SD Card Slot	6 GB	8 GB and SD Card Slot	Up to 8 GB, no SD card slot for expansion
Cellular	Yes	Yes	Yes	Yes
Satellites	GPS, GLONASS, GALILEO, BEIDOU, QZSS, IRNSS, SBAS, ATLAS L-BAND	GPS, GLONASS, GALILEO, BEIDOU, NAVIC, QZSS, SBAS	GPS, GLONASS, GALILEO, BEIDOU, SBAS	GPS, GLONASS, GALILEO, (BEIDOU Available but not included), L-band, QZSS, SBAS
UHF Radio	Receive & Transmit	Receive & Transmit	Receive & Transmit	Receive & Transmit
Weight	1.25 kg (2 batteries) for longer Battery life	1.12 KG	1.2 KG	1.14
Working Time	11+ hours	6.5 hours	8 hours	4 hours
IP Rate	IP67	IP67	IP68	IP67
NMEA OUT	Yes	Yes	Yes	Yes
Storage	SD Card	No storage	SD Card	No storage
Shock	MIL-STD-81 0G, method 516.6. Designed to survive a 2 m pole drop on concrete floor	Survive 2m pole drop onto concrete	Withstands topple over from a 2 m survey pole onto hard surfaces	2 meter pole drop on to concrete surface
Vibration	MIL-STD-810G, method 514.6E-1	MIL-STD-810F, FIG. 514.5C-1	ISO9022-36-08 / MIL STD 810G 514.6 Cat.24	MIL-STD-810G
WEBUI	Yes	Yes	Yes	Offers simple configuration, status, operation
Software	SurvPC/Layout	Trimble Access 2019 or later, android and IOS	Leica Captivate software	MagNET
Tilt compensation	Calibration-free and Immune to magnetic disturbances.	Yes	Calibration-free and Immune to magnetic disturbances	Yes
Removable battery	Yes	Yes	Yes	Yes
WIFI Client Server	Yes	Yes	No	Yes
Wifi Access Point	Yes	Yes	No	Yes
Radio:	Only one to have UHF 410MHz ~ 470MHz and Spread Spectrum 902.4MHz ~ 928MHz	403 - 473 MHz, 2 W output power or 900 MHz radio	403 - 473 MHz, 1 W output power No 900 MHz radio	410 - 470 MHz, 1 W output power or 900 MHz radio
Warranty	2 Years	2 Year	1 Year	2 Years