

# Applanix Land Products

Specifications		POS LVX-120/ POS LVX-120 RT		POS LVX-125/ POS LVX-125 RT		POS LVX+125		POS LVX+200		POS LVX+300		POS LVX+400		POS LVX+500		POS LVX+600	
Images																	
Physical Attributes	Size (mm)	185 x 93 x 42		185 x 93 x 42		185 x 93 x 42		185 x 93 x 42		185 x 93 x 42		185 x 93 x 42		185 x 93 x 42		185 x 93 x 42	
	Weight (g)	760		760		820		820		820		820		820		820	
Performance Specification (RMS Error) No GNSS Outages	RTK Position, Real-Time (m)	H: 0.02	V: 0.03	H: 0.02	V: 0.03	H: 0.02	V: 0.03	H: 0.02	V: 0.03	H: 0.02	V: 0.03	H: 0.02	V: 0.03	H: 0.02	V: 0.03	H: 0.02	V: 0.03
	Position, Post-Processed (m)	H: 0.02	V: 0.03	H: 0.02	V: 0.03	H: 0.02	V: 0.03	H: 0.02	V: 0.03	H: 0.02	V: 0.03	H: 0.02	V: 0.03	H: 0.02	V: 0.03	H: 0.02	V: 0.03
	Orientation, Real-Time (°)	R/P: 0.10	HDG: 0.09	R/P: 0.03	HDG: 0.09	R/P: 0.03	HDG: 0.09	R/P: 0.025	HDG: 0.06	R/P: 0.01	HDG: 0.05	R/P: 0.015	HDG: 0.02	R/P: 0.008	HDG: 0.02	R/P: 0.005	HDG: 0.015
	Orientation, Post-Processed (°)	R/P: 0.05	HDG: 0.08	R/P: 0.025	HDG: 0.06	R/P: 0.025	HDG: 0.06	R/P: 0.015	HDG: 0.03	R/P: 0.01	HDG: 0.025	R/P: 0.008	HDG: 0.02	R/P: 0.005	HDG: 0.015	R/P: 0.0025	HDG: 0.01
Performance Specification (RMS Error) 60s GNSS Outages	Position, Real-Time (m)	H: 2.00	V: 3.00	H: 2.00	V: 1.00	H: 2.00	V: 1.00	H: 1.0	V: 0.75	H: 0.69	V: 0.35	H: 0.34	V: 0.27	H: 0.30	V: 0.10	H: 0.28	V: 0.10
	Position, Post-Processed (m)	H: 1.20	V: 0.50	H: 0.80	V: 0.20	H: 0.80	V: 0.20	H: 0.30	V: 0.15	H: 0.24	V: 0.13	H: 0.12	V: 0.10	H: 0.12	V: 0.10	H: 0.10	V: 0.07
	Orientation, Real-Time (°)	R/P: 0.20	HDG: 0.70	R/P: 0.09	HDG: 0.30	R/P: 0.09	HDG: 0.30	R/P: 0.03	HDG: 0.08	R/P: 0.02	HDG: 0.07	R/P: 0.02	HDG: 0.03	R/P: 0.008	HDG: 0.02	R/P: 0.005	HDG: 0.02
	Orientation, Post-Processed (°)	R/P: 0.10	HDG: 0.50	R/P: 0.05	HDG: 0.20	R/P: 0.05	HDG: 0.20	R/P: 0.02	HDG: 0.05	R/P: 0.02	HDG: 0.03	R/P: 0.02	HDG: 0.02	R/P: 0.005	HDG: 0.015	R/P: 0.0025	HDG: 0.015
GNSS Tracking	GNSS Frequencies	L1 C/A, L1S, L1C, L2C, L2E, L2 C/A, L5, LEX, L3 CDMA, B1, B1C, B2, B2A, B3, E1, E5A, E5B, E5AltBOC, E6															
	GNSS Constellations	GPS + GLONASS + Galileo + BeiDou + QZSS + IRNSS + L-Band/MSS/SBAS															
Features	IMU	Internal		Internal		Internal/IMU-97		Internal/IMU-101		Internal/IMU-93/IMU-42		Internal/IMU-64		Internal/IMU-95		Internal/IMU-57	
	Dual Antenna Operation	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	DMI Support	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	POSPac™ Support (Cloud for RT)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

**Definitions:**

- H: Horizontal
- V: Vertical
- R: Roll
- P: Pitch
- HDG: Heading

**Additional Notes:**

- Typical performance. Actual results are dependent upon satellite configuration, atmospheric conditions and other environmental effects.
- Using GAMS option and two meter antenna baseline
- Subject to regional coverage.
- Post-Processed with Applanix POSPac Complete

- Temperature performance range subject to Applanix SmartCal™, the system operational outside of the range with possible reduced accuracy.
- Performance based upon external IMU where applicable.
- With DMI, DMI sold separately.
- Post-processed results not applicable for RT systems.

<https://applanix.trimble.com/en>

