

**Specifications of Automatic Guidance and Steering System
for Precision Agriculture Applications**

EZ AUTO PILOT PRO	
<p>Electric motor integrates directly into steering column Same vehicle platforms supported as Auto Pilot Motor Drive Steers in reverse 15 seconds Remain engaged when stopped 15 seconds Minimum engage speed 0.5 mph 45-degree maximum heading angle to engage Offline distance to engage 25% of implement width The system comprises:</p>	
I.	GFX 750 DISPLAY SYSTEM
	<p>Resolution: 1280 x 800; Size (Diagonal):25.6 cm (10.1") Brightness: 900 (candela/m2); System Processor: Quad-Core iMx6 PLUS @ 1 GHz Storage (eMMC/RAM):16 GB/1 GB; Operating System: Android Environment Rating: IP66 Docking Station (included) Camera: Resolution (Megapixel) :1.0 M pix, 720 p Connections:</p> <ul style="list-style-type: none"> ▪ Power/CAN :Deutsch DT15-6p ▪ USB (2 side facing) :USB 2.0 Type A (1 Host, 1 OTG) ▪ WiFi Integrated :802.11b/g/n (2.4 GHz) ▪ Bluetooth :Bluetooth 4.1
II	NAV-900 GUIDANCE CONTROLLER
	<p>Advanced GNSS receiver with high precision compatible with GFX-750 to provide positioning and guidance, including auto steer. Housing Material: Low-profile, chemical-resistant polymer casing with UV-resistant paint Mounts: Trimble custom Power: 9 - 16 VDC, 5.5 W 17.5 W with external accessories connected Output Power: 12 VDC, 12 W Maximum current for external radio: 1 A Connectors:</p> <ul style="list-style-type: none"> ▪ To GFX-750 Display: M12 4-pin connector ▪ To External Radio :M12 5-pin connector ▪ For I/O :Deutsch 12-pin connector <p>Communication and I/O:</p> <ul style="list-style-type: none"> ▪ Bluetooth: Bluetooth 4.1 ▪ Serial Ports :1 Tx/Rx, 1 Tx only ▪ CAN Ports :2 ▪ BroadR-Reach: Port: 1 ▪ Digital Out: Sonalert ▪ Analog In :Remote engage ▪ NMEA Output : 1, 5, 10, Hz <p>Operating Temperature: -40 °C - 70 °C (-40 °F - 158 °F) Storage Temperature: -40 °C - 85 °C (-40 °F - 185 °F)</p>

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	<p>Humidity: up to 100%, condensing Ingress Protection: IP66, dustproof, waterproof, IPx9K</p> <p>Inertial Measurement Unit (IMU):</p> <ul style="list-style-type: none"> ▪ Gyroscope :3-axis, 200 Hz ▪ Accelerometer :3-axis, 200 Hz <p>GNSS RECEIVER SPECIFICATIONS:</p> <p>Constellations:</p> <ul style="list-style-type: none"> ▪ GPS: L1 C/A, L2C, L2E, L5 ▪ GLONASS: L1 C/A, L1P, L2 C/A, L2P, L3 CDMA ▪ Galileo: E1, E5AltBOC ▪ BeiDou (COMPASS): B1, B2 <p>Satellite Corrections:</p> <ul style="list-style-type: none"> ▪ CenterPoint RTX Fast ▪ CenterPoint RTX ▪ RangePoint RTX ▪ SBAS (WAAS, EGNOS, MSAS) ▪ xFill <p>Land-Based Corrections:</p> <ul style="list-style-type: none"> ▪ CenterPoint RTK ▪ CenterPoint VRS <p>Correction Formats :</p> <ul style="list-style-type: none"> ▪ CMR+, sCMR+, sCMR+ with SecureRTK, CMRx, RTCM 3.0, RTCM 3.1, RTCM 3.2
III	PRECISION IQ SOFTWARE
	<ul style="list-style-type: none"> ▪ Reorganized layout ▪ All necessary functions right up front ▪ Quickly access important settings ▪ Once setup, go directly to Run screen with one button push ▪ Automated turn feature that can be used with Autopilot systems ▪ TrueSwath – Adjustment of turn based on implement coverage
IV	ACCESSORIES
	<ul style="list-style-type: none"> ▪ SAM200 Motor Drive ▪ Cable Assembly ▪ Display Cable Assembly ▪ Basic Power Cable ▪ Power bus cable kit ▪ Display to Nav 900 Antena Cable ▪ Nav 900 Mounting Plate ▪ Display Mount ▪ Steering Wheel ▪ Platform Kit
V	CORRECTION
	Correction services subscription should be provided with at least for two years to provide corrections accuracy of 3 cm or better

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GENERAL REQUIREMENTS

- a) Integrated system only will be acceptable.
- b) Full literature with appropriate references should be provided to support technical offer.
- c) Advanced onsite training on complete operation of autopilot to be provided for a period of 3 working days
- d) All accessories should be compatible with the Autopilot
- e) The manufacturer should provide a free comprehensive onsite warranty of at least 03 years after commissioning of the Autopilot. The manufacturer should simultaneously take on the work of servicing and routine maintenance once in six months during the warranty period.
- f) Essential consumables and spares to be provided for 3 years of operation.
- g) The supplier shall provide detailed application notes, manuals, user instruction, operation, troubleshooting manual
- h) Estimated cost of post warranty Annual Maintenance Cost (AMC) of the system is to be provided for the above mention period, shall be quoted separately.

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