

	STANDARD	PRO
<b>Features and Inclusions</b>	<p>Reach Alpha 5-Function 300m Depth Rated Dexterous Manipulator</p> <p>Inclusions: Single-Interlock Jaws</p> <p>Interface Cable: 1.8m Cable with Teledyne 6-Pin IE(W)-55 Impulse Female to un-terminated (6-core) RS485 and RS232 Bench Test Interface Board 24V Power Adaptor (for your region) USB-to-Micro USB Cable Alpha Mounting Kit Reach Control Lite Integration and Operators Manuals Hard Carry Case</p>	<p>Reach Alpha 5-Function 300m Depth Rated Dexterous Manipulator with Pro Features and Inclusions</p> <p>Inclusions: Single-Interlock Jaws <b>Mission Tool Kit including:</b> - <b>Parallel Jaws</b> - <b>Quad Jaws</b> - <b>Cutter</b> - <b>Special Recovery Tool</b> - <b>Soft Jaws</b> <b>Wrist 1080p IP Camera<sup>i</sup></b> <b>Continuous Wrist Rotation Upgrade<sup>ii</sup></b> <b>Cartesian Control Engine<sup>iii</sup></b> <b>Sequence Programmable</b> <b>Reach Control Pro<sup>iv</sup></b> <b>Custom Control Interface (CCI) Enabled<sup>v</sup></b> <b>CCI API including Communication Protocol and Software Developers Kit (SDK)<sup>vi</sup></b> <b>Research Datapack (including Hydro-Dynamic Model, Torque-Current Model, Denavit-Hartenberg Parameters)<sup>vii</sup></b></p> <p>Interface Cable: 1.8m Cable with Teledyne 6-Pin IE(W)-55 Impulse Female to un-terminated (6-core) RS485 and RS232 Bench Test Interface Board 24V Power Adaptor (for your region) USB-to-Micro USB Cable Alpha Mounting Kit Reach Control Lite Integration and Operators Manuals Hard Carry Case</p>

**Feature Descriptions**

<sup>i</sup> A pencil-style Low-Light Operable 1080p IP camera attached to the wrist of the manipulator. Provided with an unterminated Impulse connector for vehicle integration.

<sup>ii</sup> A mechanical design upgrade incorporating a slip-ring into the wrist stage of the manipulator, enabling continuous rotation.

<sup>iii</sup> A firmware engine enabling the ability to control the manipulator in Cartesian space in Global and End X,Y,Z co-ordinates.

<sup>iv</sup> See Reach Control Pro features and inclusions here: <https://blueprintlab.com/products/reach-control/>

<sup>v</sup> A firmware interface that enables the user to communicate directly with the manipulator control system, reading and sending data packets and implementing custom algorithms.

<sup>vi</sup> A set of documentation required to interface with a Blueprint Lab manipulator, including example implementations.

<sup>vii</sup> A set of research-grade data relating to the manipulator physical and control characteristics, allowing for the development of accurate models for simulation.