

REACH ALPHA 5 FIVE-FUNCTION MANIPULATOR

SKU: BPL-MANIP-RA5

The Reach Alpha 5 is a tough and reliable five-function electric manipulator for the Blueye X7. The lightweight, compact arm offers interchangeable jaws, high-accuracy joint positioning and adjustable grip force, with 360 mm reach and a 300 m depth rating. It is the smallest manipulator in its class for portable ROVs.

Supplier: Reach Robotics



TECHNICAL SPECIFICATIONS

Electrical

Voltage	18 V – 30 V
Power	35 W nominal
Communication	RS232 / 485
Connector	Teledyne 6-pin IE55 Impulse cable
Control modes	Position, velocity, Cartesian velocity (X, Y, Z)

Environmental

Depth	300 m
Operating temperature	5 °C to 35 °C
Storage temperature	-10 °C to 80 °C

Mechanical

Functions	5
Reach	360 mm
Lift capacity	2 kg

Grab force	10 kg
Grab speed	5 s
Wrist rotation	0.6 Nm at 60° / second
Joint rotation range	90° / 350° / 200° / 350° / 200°
Outer diameter	40 mm
Weight in air	1.36 kg
Weight in water	0.9 kg