



uArm Swift & uArm Swift Pro Specifications

Specifications								
	uArm Swift				uArm Swift Pro			
Weight	1.2kg				2.2kg			
Degrees of Freedom	4				4			
Repeatability	5mm				0.2mm			
Max. Payload	500g				500g			
Working Range	50mm ~ 320mm				50mm ~ 320mm			
Max. Speed	167mm/s				100mm/s			
Connector	Micro USB				Micro USB			
Wireless	Bluetooth 4.0				Bluetooth 4.0			
Input Voltage	DC 6V				DC 12V			
Power Adapter	Input:100 ~ 240V 50/60Hz Output: 6V5A 30W				Input:100 ~ 240V 50/60Hz Output: 12V5A 60W			
Working Temp.	0 ~ 40C°				0 ~ 40C°			
Hardware								
	uArm Swift				uArm Swift Pro			
Joint Type	Customized RC Servo				Customized Gearbox + Stepper			
Position Feedback	Potentiometer				12 bit Encoder			
Reducer	Servo gearbox				Customized ultra-thin Gearbox			
Dimension(L*W*H)	150mm*132mm*281mm				150mm*140mm*281mm			
Mother Board	Arduino MEGA 2560				Arduino MEGA 2560			
Material	Aluminum				Aluminum			
Baud Rate	115200bps				115200bps			
Extendable I/O Interface	I/O *3, 5V*1, IIC *1				I/O *27, IIC *1, 5V*1, 12V*1, Stepper*1			
Software								
	uArm Swift				uArm Swift Pro			
PC Control	uArm Studio				uArm Studio			
App Control	uArm Play				uArm Play			
For Developer	Python/Arduino/ROS				Python/Arduino/ROS			
Feature	Open Source				Open Source			
Joint Speed & Torque								
	uArm Swift				uArm Swift Pro			
	Angle	Speed	Lifetime	Torque	Angle	Speed	Lifetime	Torque
Base Motor	0° ~ 180°	60°/s	500h	12kg · cm	0° ~ 200°	40°/s	>3000h	12kg · cm
Left Motor	0° ~ 130°	60°/s	500h	12kg · cm	0° ~ 135°	40°/s	>3000h	12kg · cm
Right Motor	0° ~ 106°	60°/s	500h	12kg · cm	0° ~ 100°	40°/s	>3000h	12kg · cm
End-effector Motor	0° ~ 180°	60°/s	500h	2kg · cm	0° ~ 180°	60°/s	500h	2kg · cm
Accessories								
Pump	Suction Diameter				5mm ~ 10mm			
	Max. Pressure				33kPa			
	Max. Lifting Weight				1000g			
	Feature				With feedback			

Universal Holder	Weight	36g
	Dimension(L*W*H)	62mm*25mm*15mm
	Material	Aluminum
	Holder Diameter	14mm
Gripper	Weight	58g
	Dimension(L*W*H)	92mm*50mm*18mm
	Material	Aluminum
	Max. Force	800g
	Max. Open Distance	40mm
	Max. Speed	20mm/s
	Drive Mode	Electrically-driven
	Working Voltage/Current	6V/200mA
OpenMV Camera	Focal Length	2.8mm
	FOV	115°
	F-number	f2.0
	Programmable Method	Micro Python
	Weight	16g
	Dimension(L*W*H)	45mm*36mm*30mm
3D Printing Kit (ONLY For Pro)	Consumption	35W
	Precision	0.2mm
	Material	1.75mm PLA
	Max. Printing Speed	20mm/s
	File Format	.gcode
	Printing Size(L*W*H)	100mm*100mm*100mm
Laser Engraving Kit (ONLY For Pro)	Laser Power	500mW
	Working Voltage/Current	12V/5A
	Wave Length	405nm
	Weight	140g
	Dimension(L*W*H)	55mm*33mm*88mm
	Materials to Engrave	Wood,Plastic,Leather,Feather,Paper,etc.