uArm Swift Pro Calibration V1.0.2

1.Calibration Sheet

Please take out your calibration sheet from the package of uArm, if you cannot find out the calibration sheet, please download it and print with A4 pepper.

Please check the SN on the bottom of uArm:

If the SN is: UP12XXXXXX or UARM05XXXX, please click <u>here</u> to download If the SN is:UP13XXXXX, please click <u>here</u> to download.

2. Calibration

le	Edit Sketch To	pols Help		
2	0 6	Auto Format	Ctrl+T	10
-		Archive Sketch		
Ma	arlin Adafi	Fix Encoding & Reload	P	CD.h (*)
1 /	(aiar	Serial Monitor	Ctrl+Shift+M	
2	* Marlin 3D	Serial Plotter	Ctrl+Shift+L	
	* Copyright			
	*	WiFi101 Firmware Updater		
	* Based on S	Board: "Arduino/Genuino Mega or Mega 2560"	•	
	* Copyright	Processor: "ATmega2560 (Mega 2560)"		
	* This man	Port: *COM12 (Arduino/Genuino Mega or Mega 256	50)"	
	= it under t	Get Board Info		
	* the Free S	Get board into		
1	* (at your o	Programmer: "AVRISP mkII"	•	
2	*	Burn Bootloader		
	* This program	is distributed in the hope that it will be useful,		
1	= but WITHOUT .	ANY WARRANTY; without even the implied warranty of		
5	* MERCHANIABIL	IIT or FILMESS FOR A PARTICULAR PURPOSE. See the		
5	* GHU General)	Public License for more details.		
8	* You should h	ave received a copy of the GRU General Public License		
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2.1. Run Arduino IDE, choose the right COM port.

2.2. Click the button as image below to open the COM port.



💿 COM12 (Arduino/Genuino Mega or Mega 2560)	
	Send
echo:Maximum Acceleration (mm/s2):	
echo: M201 X2000 X2000 Z2000 E10000	
echo:Accelerations: P=printing, R=retract and T=travel	
echo: M204 P25.00 R25.00 T100.00	
echo:Advanced variables: S=Min feedrate (mm/s), I=Min travel feedrate (mm/s),	B=minimum segment time (ms), X=maximum XX jer]
echo: M205 S0.00 T0.00 E20000 X1.00 Z1.00 E5.00	
echo:Home offset (mm)	<u></u>
echo: M206 X0.00 Y0.00 Z0.00	
echo: PID settings:	
echo: M301 P22.20 I1.08 D114.00	
echo:Filament settings: Disabled	
echo: M200 D1.75	
echo: M200 D0	
@5 V1	
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V Autoscroll	Newline 👻 115200 baud 🕶

2.3. Choose "Newline" and set baud value at "115200"

2.4. Place uArm Swift Pro right in the base prints on the calibration sheet, make sure the base perfectly matches it's prints on the sheet.



2.5. Send "M2019" to deactivate all the motors.

COM12 (Arduino/Genuino Mega or Mega 2560)	- 0 ×
M2019	Send
echo: Maximum Acceleration (mm/s2): echo: M201 I2000 Y2000 Z10000	-
echo:Accelerations: P=printing, R=retract and I=travel echo: M204 P25.00 R25.00 T100.00	
echo:Advanced variables: S=Nin feedrate (mm/s), I=Min travel feedrate (mm/s), B=minimum segment time (ms), X≃m echo: M205 S0 00 T0 00 B20000 X1 00 Z1 00 B5 00	aximum XY jerl
echo:Home offset (mm) echo: M206 I0.00 Y0.00 Z0.00	
echo: PID settings: echo: M301 P22.20 Il.08 D114.00	
echo:Filament settings: Disabled echo: M200 D1.75	-
echo: M200 D0 e5 V1	
x [, *
🕼 Autoscroll 🛛 🖉	115200 baud 💌

2.6. Place the bare end effector right aligned with point B on the calibration sheet (see the image below).



2.7. Send "M2401 B", then calibration is done if it returns "ok".

COM12 (Arduino/Genuino Mega or Mega 2560)	×
M2401 B	iend
ecno - most \$2000 \$2000 \$2000 \$10000	
echo:Accelerations: P=printing, R=retract and I=travel	
echo: M204 P25.00 R25.00 T100.00	
scho:Advanced variables: S=Win feedrate (nn/s), I=Min travel feedrate (nn/s), B=minimum segment time (ns), I≐maximum II	jerl
echo: M205 50.00 T0.00 B20000 X1.00 Z1.00 E5.00	
echo:Homa officet (mm)	
echo: M206 X0.00 T0.00 Z0.00	100
echo:PID settings:	
echo: M301 P22.20 Il 08 D114.00	
echo:Filament settings: Disabled	
echo: M200 D1.75	10
echo: M200 D0	
25 V1	
	- U
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