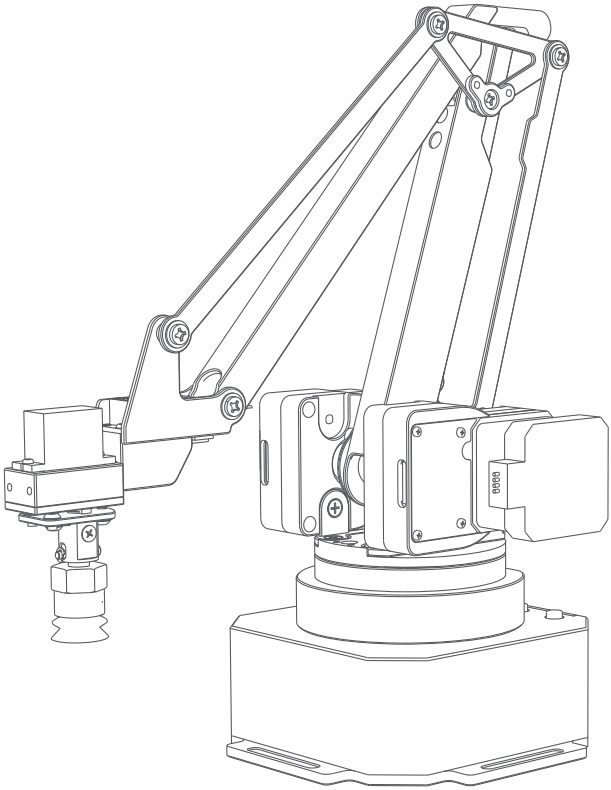
UFACTORY

UARM Swift Pro

firmware guidance



SHENZHEN UFACTORY CO. LTD.

v1.0.9

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The Difference between V3.0 & V4.0:

V3.0 is designed for the applications (for example: 3D printing) so it supports all functions in uArm Studio.V4.0 is designed for the efficient automation, so it offers 2X faster speed and step losing detection.

For more details, please refer to the chart below:

	Firmware 3.2 Link	Firmware 4.3 Link
Description	Old Version Firmware	Add port automatic identification, fix some bugs
Blockly	✓	✓
Control	✓	✓
Teach & Play	✓	✓
Leap Motion	—	✓
Draw/Laser	✓	✓
3D Printing	✓	—
APP Control	✓	—
Support Grove Modules	✓	—

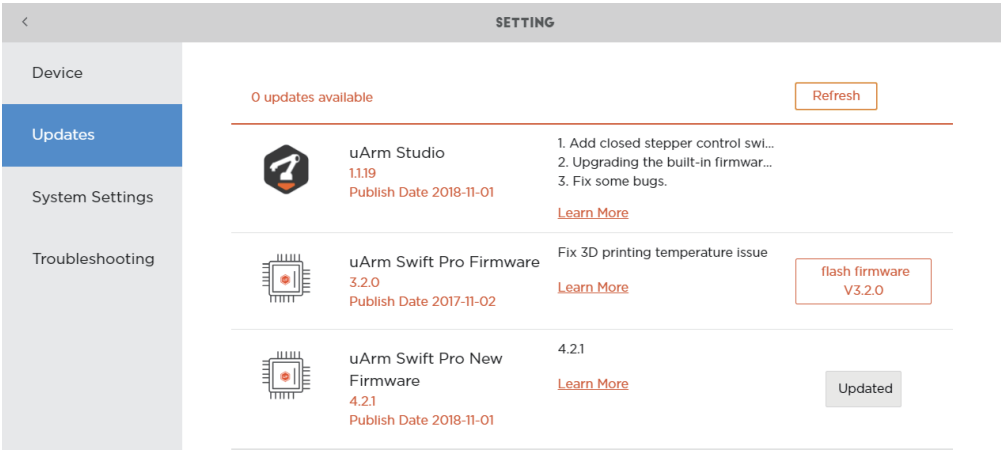
Firmware 3.2 Link
https://bit.ly/2PReou6

Firmware 4.3 Link
https://bit.ly/2Lts7Zk

Note: the above conditions based on uArm Studio Version 1.1.20.

Switch and Use Firmware V3.0 & V4.0

Download the firmware V3.0&V4.0
Connect the uArm with USB cable. Then simply press the “flash firmware V4.2.1” button, then it will flash automatically, and vice versa.



After you finish flashing the firmware, the available functions will be shown on uArm Studio automatically.

Note:
There are a few commands changed in the communication protocol, please refer to the link for the details

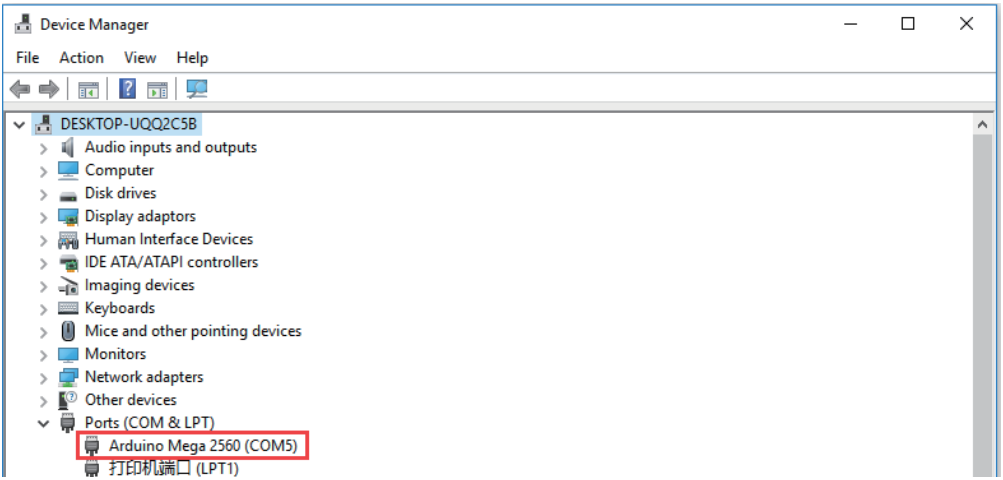
V4.0 link https://bit.ly/2JpC8nQ

V3.0 link https://bit.ly/2vNjvly

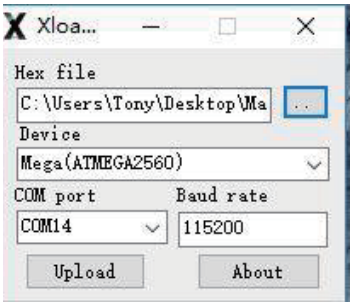
Additional Notes

If firmware update failed halfway, or flashed the wrong firmware, please don’ t worry, following the steps below:

1 Download the correct firmware (how to download the file from Github) https://bit.ly/2PUm2Ul
V4.0: uArmPro_V4.4.0_release_20190327.hex https://bit.ly/2DX6F8X
V3.0: uArmSwiftPro_Standard.hex https://bit.ly/2vHtSaP
2 Download the XLoader https://bit.ly/2H9MyGO
3 Connect the uArm to your computer;
4 Open XLoader, select the firmware (hex file);
5 Click “Device”, select “Mega(ATMEGA2560)”;
6 Click “COM port”, select port (the port is different for each computer, please open the “Device Manager” and check the “Ports(COM&LPT)” beforehand);



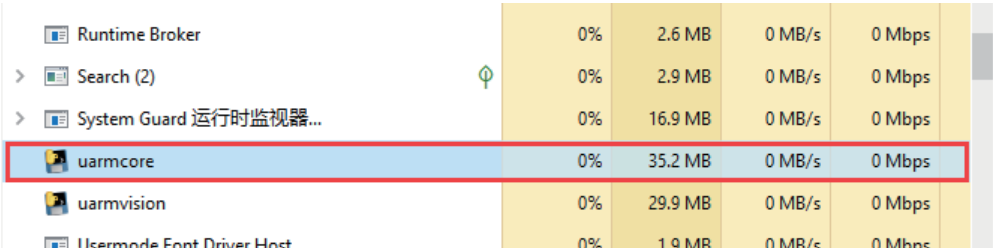
7 Set “Baud rate” as 115200; Click “Upload” to finish the flashing process.



If you use xLoader to flash the firmware, please make sure you check the following steps:

(1) Firstly, disable the software (e.g. Arduino IDE and/or uArm Studio);

(2) If you did use the uArm Studio, please open the “Task Manager” (Ctrl+Shift+Esc), and terminate the “uarmcore”



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