Update Guide



Dobot M1 Firmware Update Guide

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Shenzhen Yuejiang Technology Co., Ltd



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Before using our product, please thoroughly read and understand the contents of this document and related technical documents that are published online, to ensure that the robotic arm is used on the premise of fully understanding the robotic arm and related knowledge. Please use this document with technical guidance from professionals. Even if follow this document or any other related instructions, Damages or losses will be happen in the using process, Dobot shall not be considered as a guarantee regarding to all security information contained in this document.

The user has the responsibility to make sure following the relevant practical laws and regulations of the country, in order that there is no significant danger in the use of the robotic arm.

Certification specification

Dobot M1 has been certified as follows.



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Preface

Purpose

This Document describes how to update firmware, making it easy for users to fully understand and use it.

Intended Audience

This document is intended for:

- Customer Engineer
- Sales Engineer
- Installation and Commissioning Engineer
- Technical Support Engineer

Change History

Date	Change Description
2018/12/15	The first release

Symbol Conventions

The symbols that may be founded in this document are defined as follows.

Symbol	Description
	Indicates a hazard with a high level of risk which, if not avoided, could result in death or serious injury
	Indicates a hazard with a medium level or low level of risk which, if not avoided, could result in minor or moderate injury, robotic arm damage
	Indicates a potentially hazardous situation which, if not avoided, can result in robotic arm damage, data loss, or unanticipated result
ANOTE	Provides additional information to emphasize or supplement important points in the main text



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1. Updating Firmware

When the firmware or other applications need to be upgraded, you can use the web management to upgrade the firmware or the application. For example, if you want to use the collision detection or IP address forced configuration function, you can upgrade Dobot M1 firmware.

When updating firmware, please do not perform any other operation on Dobot M1 or power off Dobot M1, to avoid Dobot M1 in abnormal condition. Otherwise, it will be vulnerable to injury the device or the person.

Prerequisites

- You have connected Dobot M1 to a PC over a network cable, and the IP address of Dobot M1 and the PC must be in the same network segment. For details, please see *Dobot M1 User Guide*.
- You have powered on Dobot M1.
- You have obtained the latest A9 firmware **a9_app-00xx.tar**. *xx* indicates the firmware version, please replace it based on site requirements.

The download path is <u>https://www.dobot.cc/downloadcenter/dobot-m1.html#most-download</u>.

- You have connected Dobot M1 to an emergency stop switch.
- You have obtained the latest M1Stuido.

The download path is <u>https://www.dobot.cc/downloadcenter/dobot-m1.html#most-download</u>.

Procedure

- **Step 1** Select the corresponding IP address from the IP drop-down list on the upper left pane of the M1Studio page.
- Step 2Select Tools > Web Management on the M1Studio page.The Web Management page is displayed.
- Step 3 Select Update A9 Program in the navigation tree on the left.The Update A9 Program page is displayed, as shown in Figure 1.1.



🖉 ДОВОТ					
# Home	Update A9 Program				
File Management					
2 Upload Offline Script					
Contract Con					
📋 Log Management					
Update Management					
Update A9 Program	Current Version:02003600				
	Speed-	Details:-	Names	Size-	
Update Firmware					

Figure 1.1 A9 Program GUI

Step 4 Click Select File and upload the obtained firmware.

Step 5 Click Update.

If the version of the obtained firmware is **0058** or later, please click **Update** again after **Status** is **100%**, to avoid update failure.

Step 6 Right-click Reload after Status is Update Finish, as shown in Figure 1.2.

If the A9 firmware version changes to the updated version, it indicates that the update is successful.

Update A9 Program			
	Select File		
Current Version:02003600			
Speed:6.60M/S	Details:13.63M / 13.63M	Name:a9_app-0058(6).tar	Size:13.63M
Status:Update Finish			
bin/		100% Back Forward Reload	

Figure 1.2 Update A9 firmware

- Step 7 Restart Dobot M1.
- **Step 8** Select **Update Firmware** in the navigation tree on the left.

The **Update Firmware** page is displayed, as shown in Figure 1.3.

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Update Firmware				
Update Type	Properties	IsLastVersion	Status	Operation
Dobot Firmware:- Size-	Speed:- Details-	IsLast	Wait for uploading	One-click Update
3D Printing Firmware:- Size-	Speed:- Details-	IsLast	Wait for uploading	One-click Update
Driver1:- Size-	Speed:- Details-	İsLast	Wait for uploading	One-click Update
Driver2:- Size-	Speed:- Details-	IsLast	Wait for uploading	One-click Update
Driver3:- Size-	Speed:- Details-	IsLast	Wait for uploading	One-click Update
Driver4:- Size-	Speed:- Details-	IsLast	Wait for uploading	One-click Update
EndEffector:- Size-	Speed:- Details-	IsLast	Wait for uploading	One-click Update
All Drivers:- Size-	Speed:- Details-	Waiting	Wait for uploading	One-click Update

Figure 1.3 Update Firmware GUI

Step 9 Select firmware exactly as the order shown in Figure 1.4 and click One-click Update.

Update Firmware				
Update Type	Properties	IsLastVersion	Status	Operation
Dobot Firmware:- Size-	Speed:- Details-	IsLast	Wait for uploading	One-click Update
3D Printing Firmware:- Size-	Speed:- Details-	IsLast	Wait for uploading	One-click Update
Driver1:- Size-	Speed:- Details-	IsLast	Wait for uploading	One-click Update
Driver2:- Size-	Speed:- Details-	IsLast	Wait for uploading	One-click Update
Driver3:- Size-	Speed:- Details-	IsLast	Wait for uploading	One-click Update
Driver4:- Size-	Speed:- Details-	IsLast	Wait for uploading	One-click Update
EndEffector:- Size-	Speed:- Details-	IsLast	Wait for uploading	One-click Update
All Drivers:- Size-	Speed:- Details-	Waiting	Wait for uploading	One-click Update

Figure 1.4 Update order

You can view the process of the firmware upgrade. If the progress bar is 100% and the green LED indicator on the base of Dobot M1 is blinking, the update is completed, as shown Figure 1.5 and Figure 1.6. And then the next firmware update can be started.





Figure 1.5 Process of the firmware upgrade



Figure 1.6 LED indicator status

- Please update firmware exactly as the order shown in Figure 1.4 and the next firmware update should not be started until the current one is completed. Otherwise, the update will fail.
- When updating firmware, please do not perform any other operation on Dobot M1 or power off Dobot M1, to avoid Dobot M1 in abnormal condition. Otherwise, it will be vulnerable to injury the device or the person.
- **Step 10** Select **3D Printing Mode** from the drop-down list on the **Mode Switch Controlling** pane of the **Home** page, as shown in Figure 1.7.

After the 3D printing firmware is updated, Dobot M1 will switch to 3D printing mode, you need to switch Dobot M1 to Dobot mode. Otherwise, Dobot M1 cannot work normally.



 Home ★ DobotM1 File Management ↓ Upload Offline Script Offline Script Management ↓ Log Management Update Management Update Management 	Ø DOBOT		
★ DobotM1 File Management Mode Switch Controlling ▲ Upload Offline Script Mode Switch Controlling Offline Script Management 3D Printing M Dobot Mode Current Mode ▲ Log Management Dobot Mode 3D Printing Mode ✓ Offline Mode Update Management Offline Mode	A Home		
File Management Mode Switch Controlling		☆ DobotM1	
▲ Upload Offline Script Mode Switch Controlling △ Offline Script Management 3D Printing M ▲ Log Management Dobot Mode 3D Printing Mode ✓ Update Management Offline Mode	File Management		
Image: Construction of the second	🕹 Upload Offline Script	Mode Switch Controlling	
	Cffline Script Management	3D Printing M	
Update Management Offline Mode ✓ Offline Mode	🛗 Log Management	Dobot Mode	
Update Management Offline Mode		3D Printing Mode 🗸	
	Update Management	Offline Mode	
Contraction of the second seco	🔅 Update A9 Program		
C Update Firmware	C Update Firmware		

Figure 1.7 Mode switch