

Dobot Firmware Upgrade Instruction

1. Introduction

You can refer to the following chart upgrade your firmware from 1.0 to 1.1. The 1.1 version of firmware provided a more stable serial communication, with which you can enjoy the new features of Dobot iOS APP.

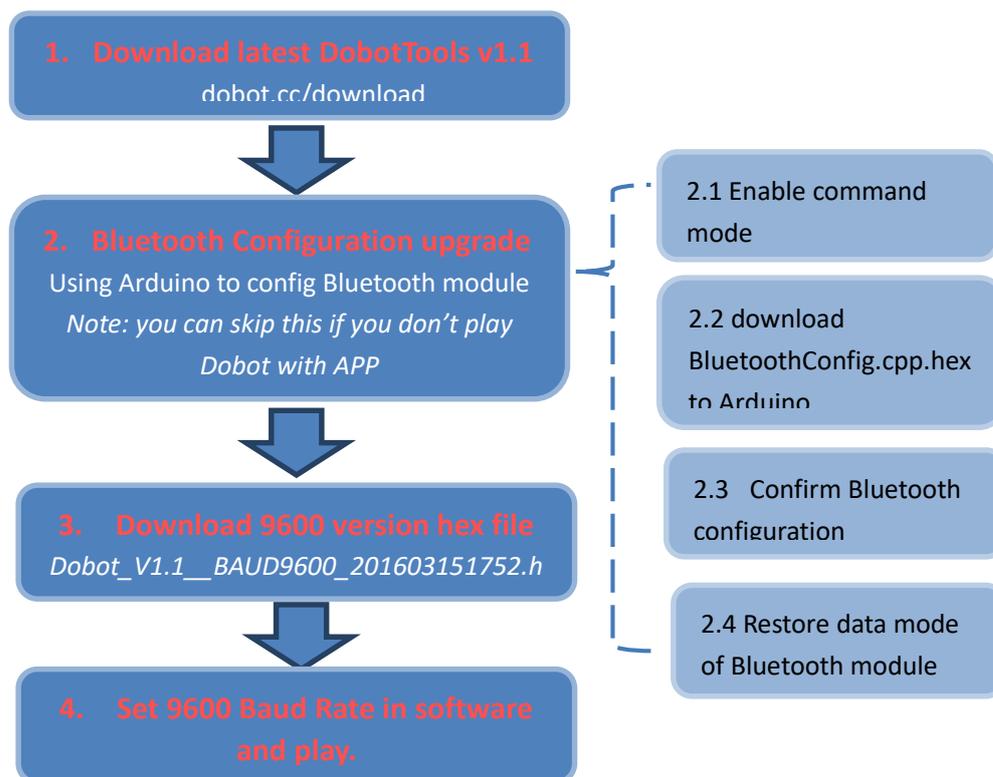


Figure 1 Flowchart of upgrading from 1.0 to 1.1 firmware

2. Bluetooth module configuration manual

For our Dobot's latest firmware compatibility, we must configure the Bluetooth module.

Note:

- This step can be skipped if you **DO NOT** need to use Bluetooth(Mobile Device are using Bluetooth to connect Dobot Controller).
- If this step is skipped, Dobot with firmware 1.1 **CAN NOT** be controlled with APP.

2.1 Enable command mode of Bluetooth module

1. There are two pads on the back of Bluetooth module, as shown in [错误!未找到引用源。](#). The Bluetooth module enters the command mode when powered up with pads connected. You can use soldering or wire to connect them.

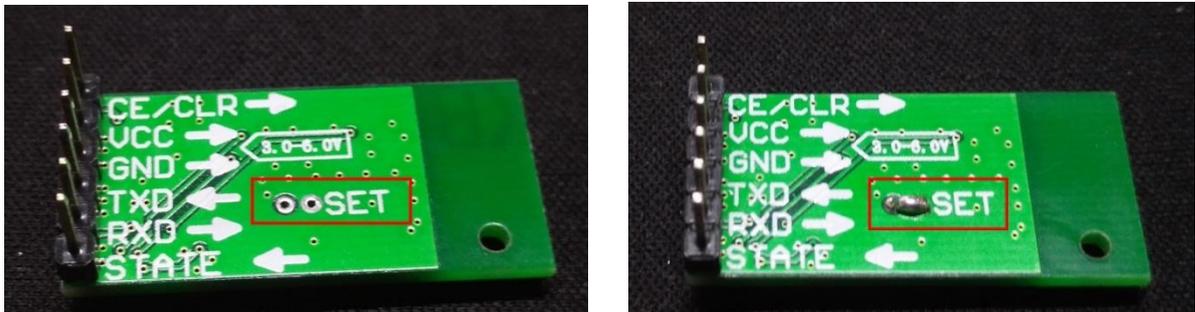


Figure 2 Connect two pads to enable command mode

2. Insert the Bluetooth module into the right area of the Dobot Controller after the pads are connected, as shown in Figure 3.
 - If the blue LED is on and doesn't twinkle, then the module entered the command mode.
 - If the blue LED twinkles, which hints that the pads are not connected successfully, please redo procedure 1.

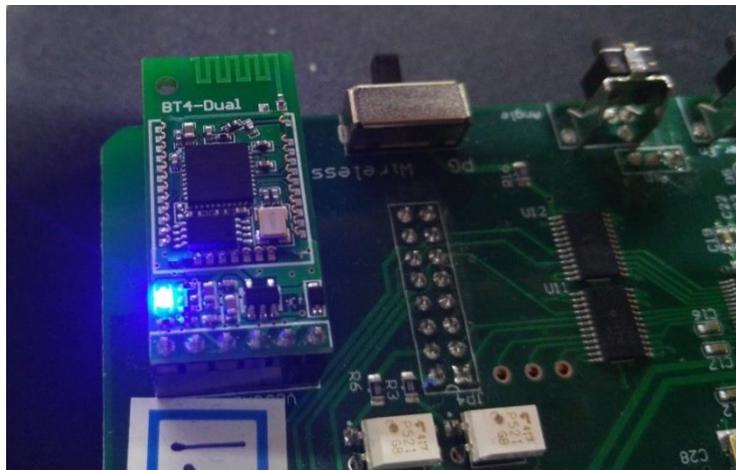


Figure 3 Power Up with command mode enabled

2.2 Download firmware to configure Bluetooth

1. Download newest DobotTools from our Dobot official website and unzip it after download. The folder structure is shown in Figure 4.

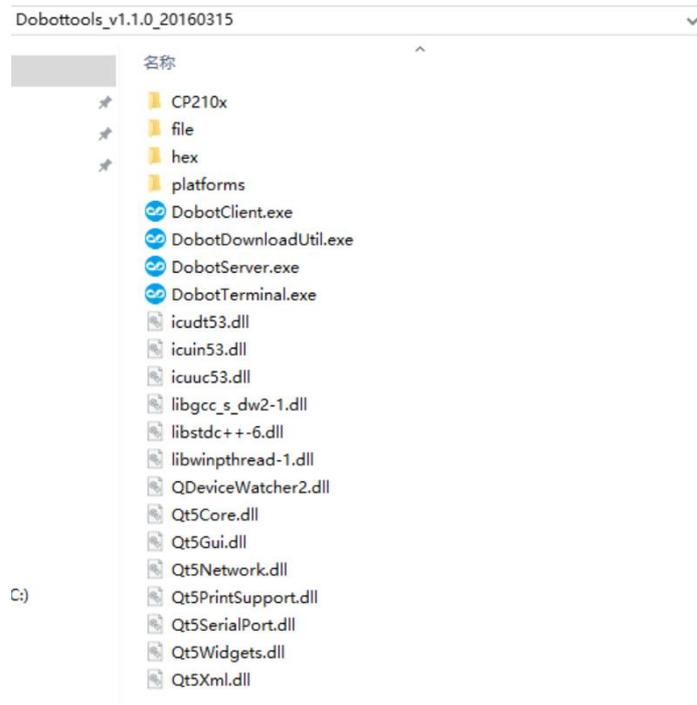


Figure 4 DobotTools Folder Structure

2. Use "DobotTools/DobotDownloadUtil.exe" to download the "BluetoothConfig.cpp.hex", as shown in the following figure.

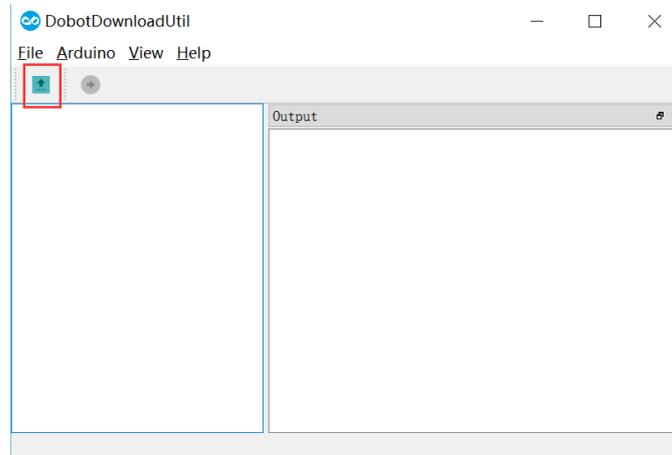


Figure 5 Load hex File

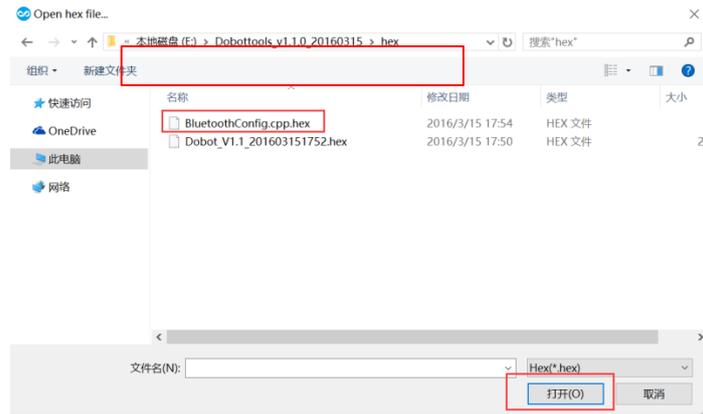


Figure5 Navigate hex file

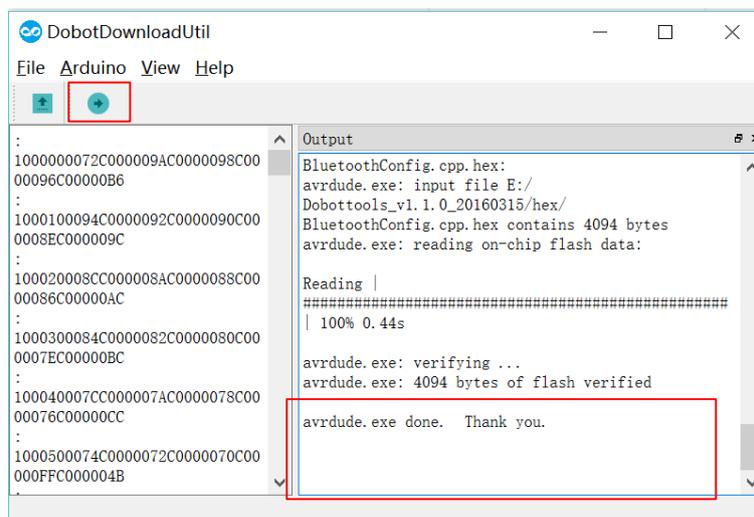


Figure6 Download hex file and success notification

2.3 Confirm Bluetooth configuration

1. Open “DobotTools/DobotTerminal.exe” after downloading the “BluetoothConfig.cpp.hex”, and alter the baud rate to 9600, as shown in Figure7.

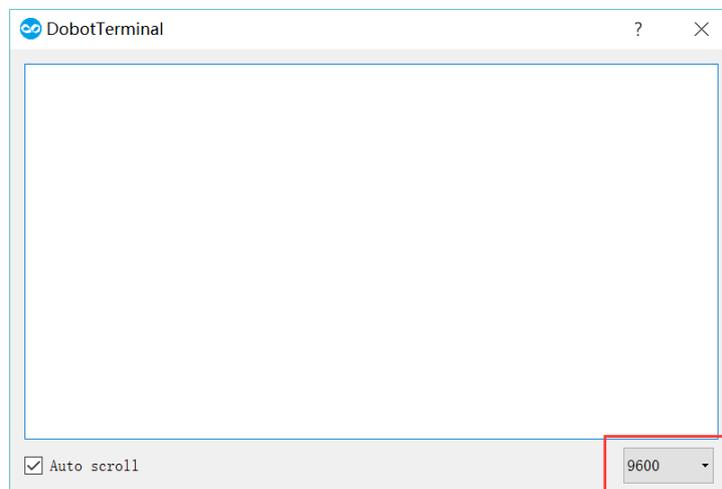


Figure7 DobotTerminal

2. After changing the baud rate, DobotTerminal prints the feedback of the Bluetooth configuration. If the terminal prints “Successfully configure Bluetooth module!”(Figure11), then the module has been configured successfully. If the terminal prints “Failed to configure Bluetooth module!!!”(Figure12), then we have to reconfigure the module from step 1, and check whether the Bluetooth command mode is enabled.

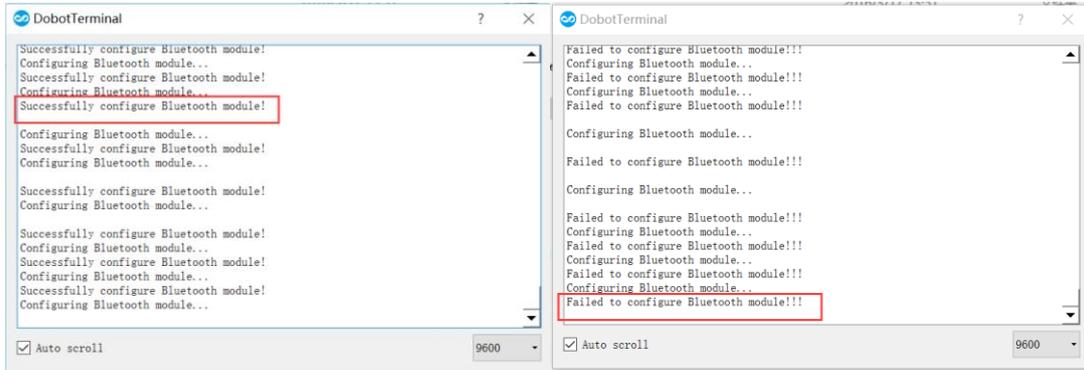


Figure8 Configuration Successful(l) & Configuration Failure(right)

2.4 Restore data mode of Bluetooth module

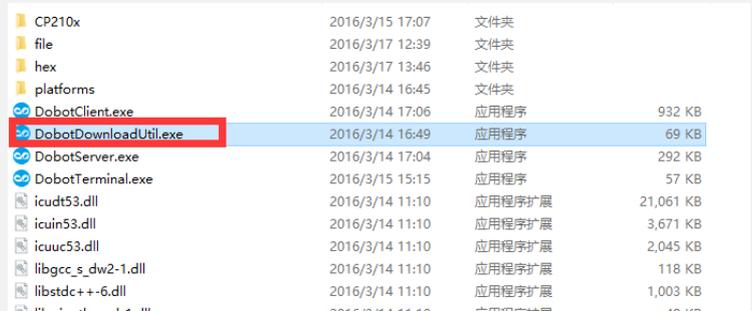
We connected the two pads of the Bluetooth module to enable the command mode of it. Now we must undo step 2.1 and set Bluetooth to the data mode. **Just disconnect the two pads!**

3. Download latest firmware of Dobot

When we reach this step, we can download the newest firmware of Dobot. The newest firmware is "DobotTools/hex/ Dobot_V1.1_201603151752.hex". You can follow the steps of 2.2.

1. Connect Dobot with USB
and Open download tool

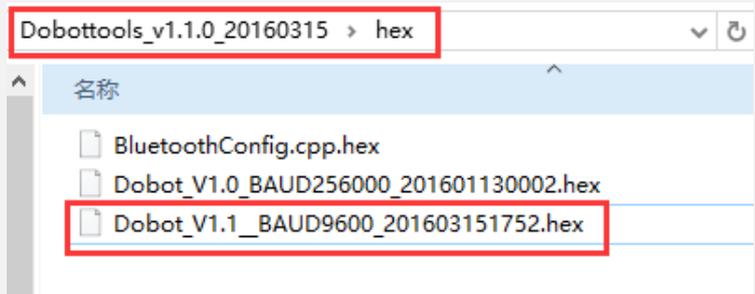
DobotDownloadUtil.exe



名称	日期	类型	大小
CP210x	2016/3/15 17:07	文件夹	
file	2016/3/17 12:39	文件夹	
hex	2016/3/17 13:46	文件夹	
platforms	2016/3/14 16:45	文件夹	
DobotClient.exe	2016/3/14 17:06	应用程序	932 KB
DobotDownloadUtil.exe	2016/3/14 16:49	应用程序	69 KB
DobotServer.exe	2016/3/14 17:04	应用程序	292 KB
DobotTerminal.exe	2016/3/15 15:15	应用程序	57 KB
icudt53.dll	2016/3/14 11:10	应用程序扩展	21,061 KB
icuin53.dll	2016/3/14 11:10	应用程序扩展	3,671 KB
icuuc53.dll	2016/3/14 11:10	应用程序扩展	2,045 KB
libgcc_s_dw2-1.dll	2016/3/14 11:10	应用程序扩展	118 KB
libstdc++-6.dll	2016/3/14 11:10	应用程序扩展	1,003 KB

2. Load hex file

Dobot_V1.1__BAUD9600_201603151752.hex



3. Download firmware to
arduino

Click download and check the result

