Meritus AI

SCRATCH4PHIRO
INSTALLATION GUIDE

Scratch4Phiro Installation Guide

Welcome to the world of **Scratch4Phiro** , where you can bring your ideas to life and make the Phiro robot do amazing things!

This guide will help you install and setup **Scratch4Phiro** on a Windows computer. Follow these steps, and you'll be ready to create your very first program in no time. Let's dive into the fun of coding and robotics !

Step 1 - Check for Required Software

Before we get started, let's make sure your computer has the software needed to run Scratch4Phiro. Follow the steps below based on whether you're a new user or an existing user.

New User Steps:

1. Press **Windows key + R** on your keyboard at the same time.
   - This will open a small box called the **Run Command.**
2. In the box, type **appwiz.cpl** and then press **Enter.**
   - This will open a list of all the programs installed on your computer.
3. Check whether **Adobe AIR** and **Adobe Flash** applications are installed.
   - If they are not installed, proceed directly to **STEP 2 - App Installation Process. {Page 4}**

Existing User Steps:

1. Press **Windows key + R** on your keyboard at the same time.
   - This will open a small box called the **Run Command.**
2. In the box, type **appwiz.cpl** and then press **Enter**.
   - This will open a list of all the programs installed on your computer.
3. Look for **Adobe AIR** and **Adobe Flash** in the list.
4. The Scratch4Phiro app requires Adobe AIR software, **version 33.1.1.744.**
   - To maintain the required version, you must remove any other versions of Adobe AIR.
5. If Adobe AIR and Adobe Flash are installed:
   - Locate and double-click **Uninstall_Adobe_AIR.exe** (provided in the package).**Here**
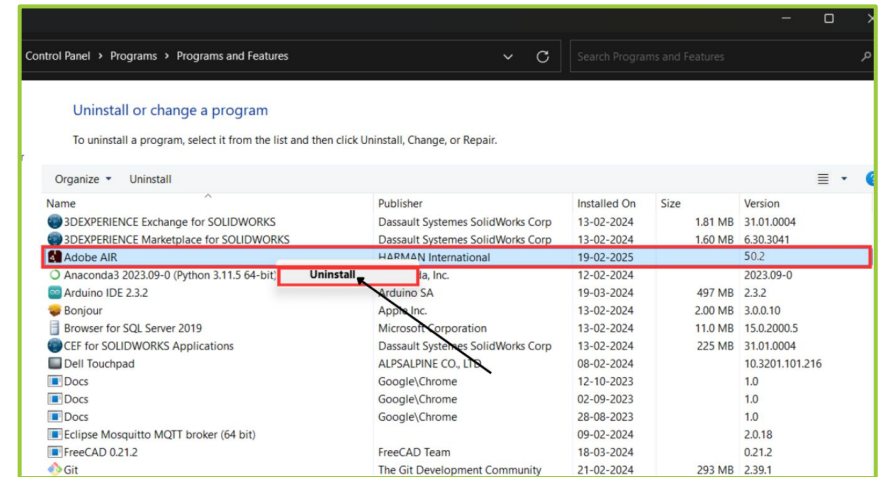   - Select Adobe AIR and Adobe Flash, then click **Uninstall** . *(Refer to Image 1)*

Image 1

Step 2 - Install Scratch4Phiro

Now it's time to install **Scratch4Phiro:**

1. Download the **Scratch4Phiro.exe** file from **here**.
   - If you see a warning message, click **Keep File** to continue.

2. Open the downloaded **Scratch4Phiro.exe** file.
   - Follow the instructions on the screen to install the app.

3. During installation, **Adobe AIR version 33.1.1.744** will install automatically.

4. When installation is done, double-check that **Adobe AIR** was installed correctly:
   - Press **Windows key + R** , type **appwiz.cpl** , and press **Enter** .
   - Make sure **Adobe AIR version 33.1.1.744** is listed in the programs.

Step 3 - Pairing Phiro with Software

Follow these steps to connect your **Phiro robot** to your computer using Bluetooth and link it with the **Scratch4Phiro app** :

1. **Turn on Advanced Bluetooth Discovery:**

    ○ Go to **Settings > Bluetooth & Devices > Devices > Device Settings > Bluetooth Device Discovery.**
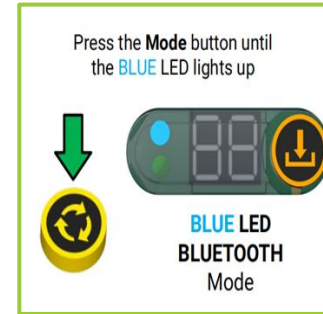   ○ Change the mode from **Default** to **Advanced.**

Press the **Mode** button until the BLUE LED lights up

BLUE LED BLUETOOTH Mode

Image 2

PAIR Phiro and your laptop, PC or mobile device before programming via **Bluetooth**

Bluetooth Pairing Code 1234

PHIRO
Phiro Pro 00 0001
Made in INDIA

Phiro ID on the sticker on the bottom plate

Image 3

2. **Turn on Phiro:**

    ○ Power on the **Phiro robot** and switch it to **Bluetooth Mode** . **Add Phiro as a Bluetooth Device** :*(Refer to Image 2)*
    ○ Go to **Settings > Bluetooth & Devices > Add a Device.**
    ○ Locate **Phiro's number** (found on the bottom of the Phiro bot).*(Refer to Image 3)*
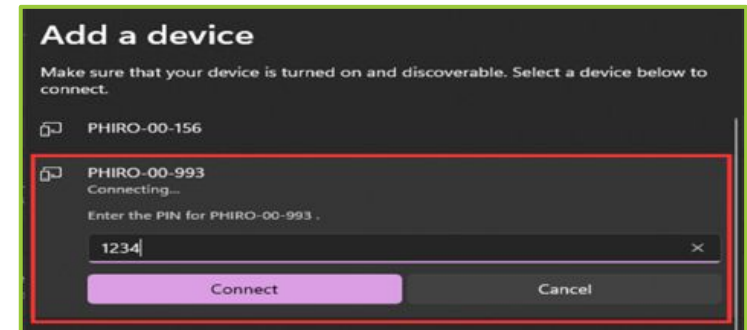   ○ Select the device, and when prompted, enter the PIN: **1234** to pair. *(Refer to Image 4)*

Add a device

Make sure that your device is turned on and discoverable. Select a device below to connect.

PHIRO-00-156

PHIRO-00-993
Connecting...
Enter the PIN for PHIRO-00-993 .

1234

Connect   Cancel

Image 4

5

4. **Identify Phiro's Connection Port:**

- Navigate to **Bluetooth & Devices > Devices > More Bluetooth Settings > COM Ports.**
- Note the port number listed as **Outgoing** (e.g., COM4).

Image 5

5. **Connect Phiro to Scratch4Phiro:**

- Open the **Scratch4Phiro app.**
- Select the **Outgoing COM Port** you noted earlier and click the **Connect** button.*(Refer to Image 5)*
- In the **Scratch4Phiro app**, go to **Scripts > More Blocks.**
- A **green circle** indicator in the app and a **green LED** on the Phiro bot will confirm a successful connection. *(Refer to Image 6)*

Image 6

6. **Connection Issues:**

- If a **red circle** appears in the **Scratch4Phiro app** and the **green LED** on the Phiro bot does not glow, it means Phiro is disconnected. *(Refer to Image 7)*
- In that case, repeat the **Phiro Pairing Process** from the beginning.

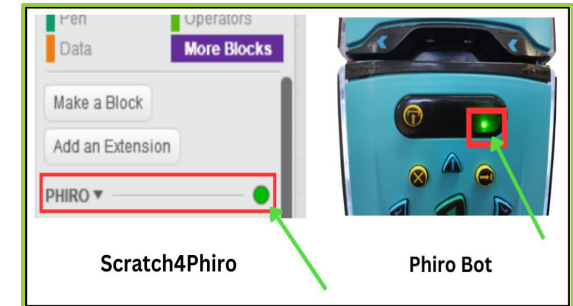**Important:** Each time you reconnect Phiro, you must follow the **Step 3** - Phiro Pairing Process again.
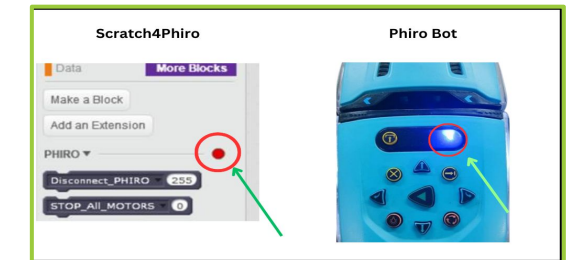

Image 7

Step 4 - Run your First Program

Ready to see your robot in action? Let's run a sample program:

1. Download a **Sample Program** from **here**.
2. Open **Scratch4Phiro.**
3. Click **File > Open** , then select a sample program you downloaded.
4. Click the **Flag icon** to start the program.
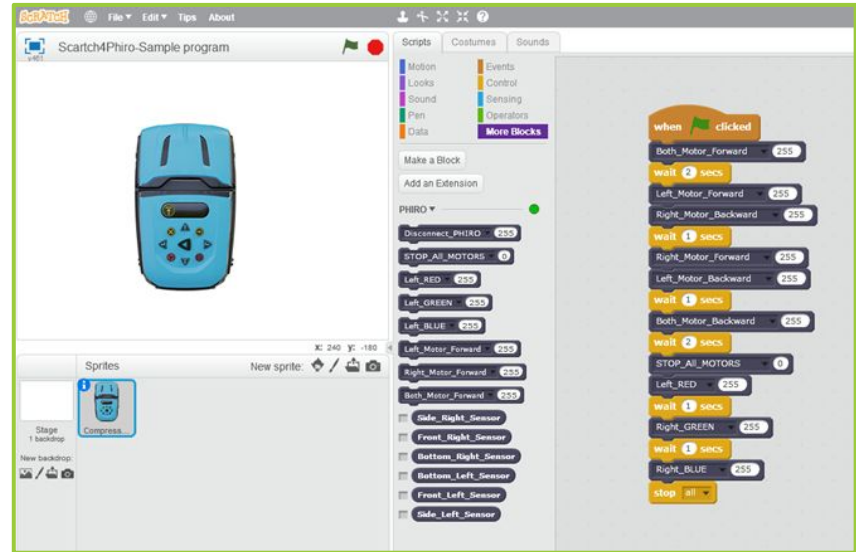5. Watch as Phiro follows your commands!

Image 8

7

Step 5 - Troubleshooting Tips

Sometimes things don't go as planned. If Phiro isn't working, try these steps:

- If Phiro disconnects, go back and follow STEP 3 again.
- Make sure that:
  - Bluetooth is turned on.
  - You're using the correct COM Port.

Need help? email us at **support@meritus.ai** .

Have fun Creating, Coding and Exploring with Scratch4Phiro!