Robotic Arm with USB PC Interface
User's Manual

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Product Introduction

This Robotic Arm connects to the Windows personal computer USB port, suitable for Windows XP / Vista / 7 / 8 & 8.1 (work only with 32-bit version) / 10 (32-bit & 64-bit) operation system. Software includes below functions.

●BASIC mode: By using keyboard or mouse to have real time manual control of the arm.
●PROGRAM mode: Creating & editing a program, save and load just like normal computer files.

It creates a fun way of learning and experimenting your Robotic Arm with computer.

Warning

Caution

Keep the interface board away from below places to avoid any injury of the board:

◆high humidity.
◆direct sunlight.
◆static electricity.
◆reach of small children.
◆liquid or flammable objects

Never disassemble and or reassemble the interface board or it may cause short circuit,injury or electric shock.

1.SET UP   (For Windows XP)

1-1.Hardware and system requirements

OS : Windows XP

CPU : Pentium3, 1.0GHz or higher

Memory : 256MB or higher

Hardware Disk Space : 100MB or more
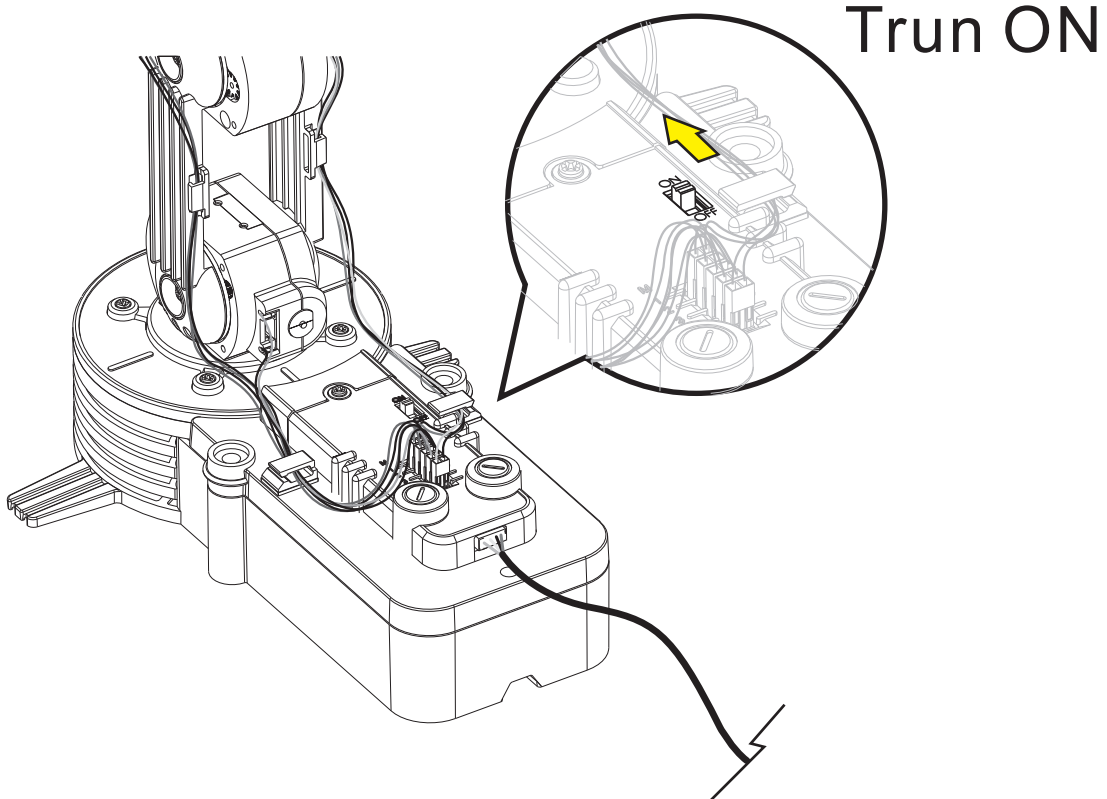
Display : Super VGA (800x600) or higher

Color monitor with high color 16-bit or higher

1-2.Install USB Driver and MAIN PROGRAM

A.Put the disk into your CD-ROM

B.Connect Robotic Arm and PC with the USB cable.

C.Turn ON the Robotic Arm.

Trun ON

D.Install USB Driver and MAIN PROGRAM.

Step1 (If this message does not show on your screen then go to
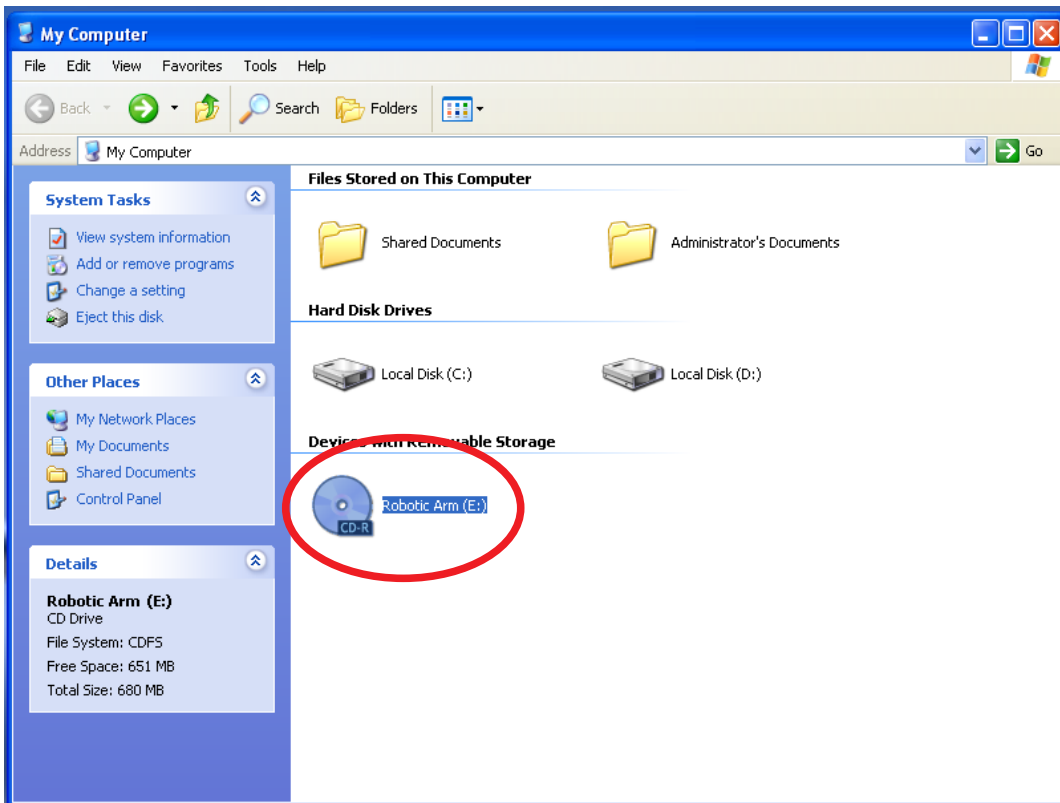Troubleshooting 5-1.)

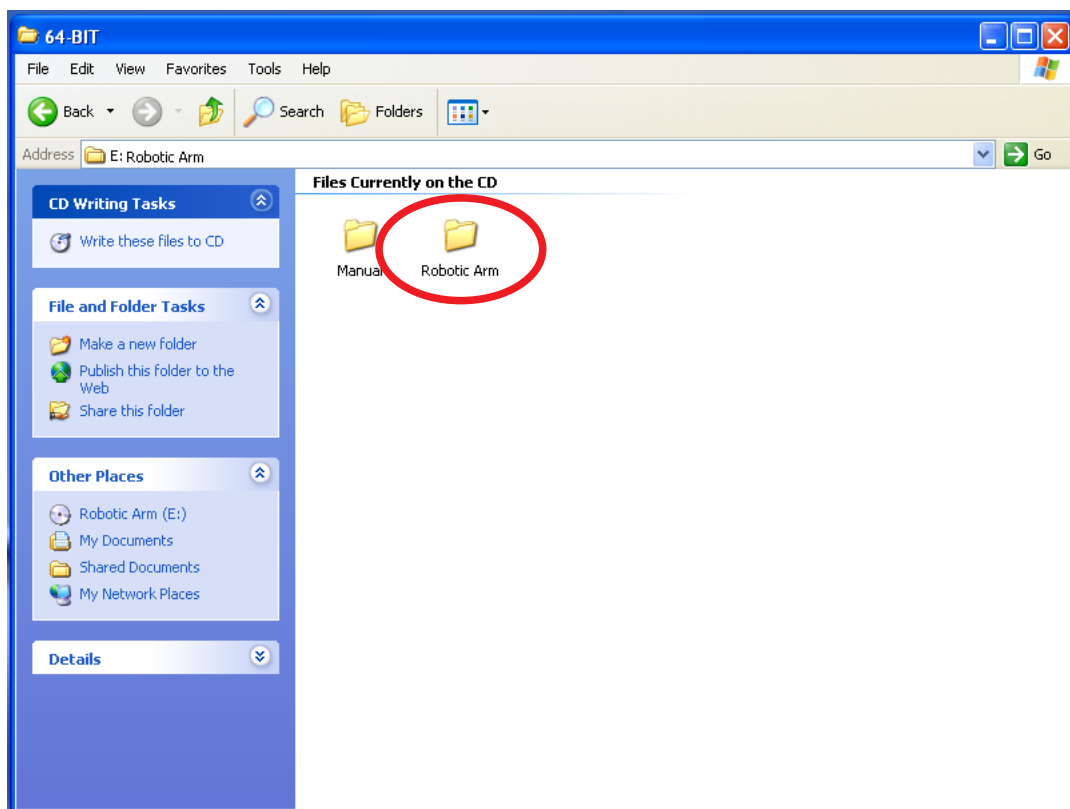**Step2** (If this window does not show on your screen then go straight to step 3.)
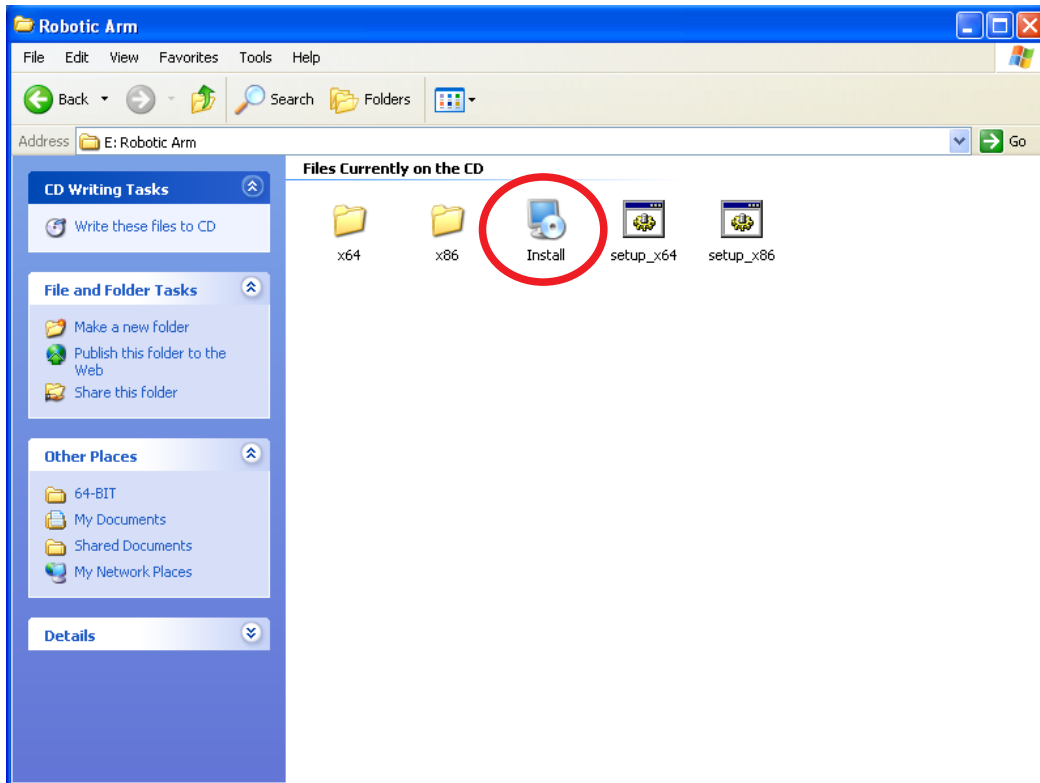

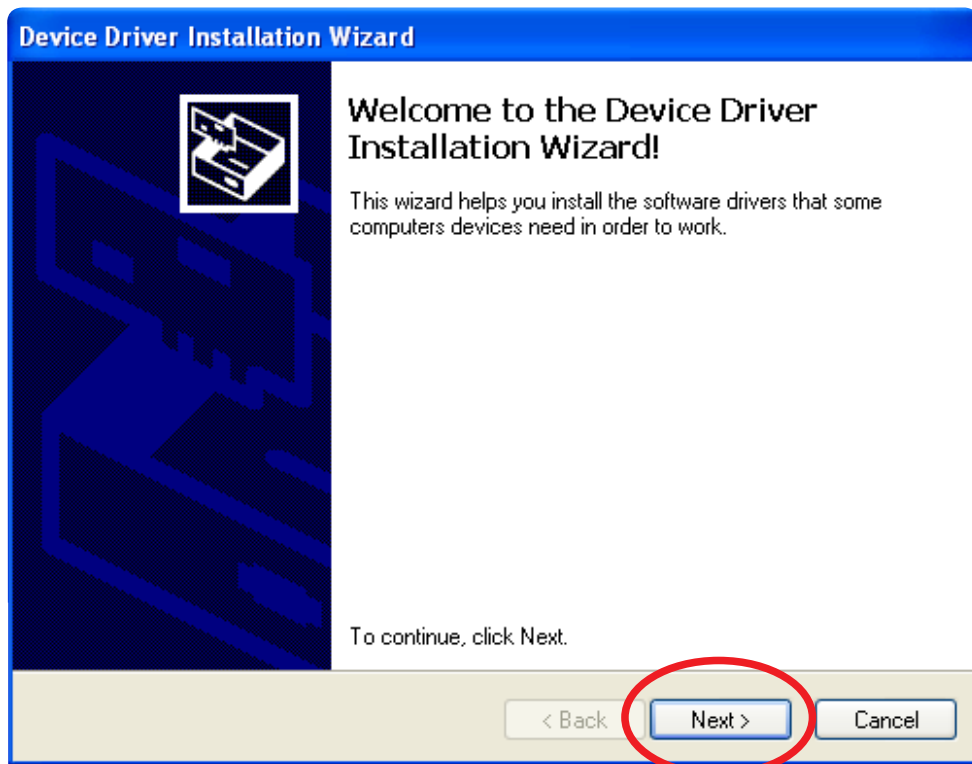**Step3** Choose " My Computer ".

Step4 Click your CD-ROM icon.

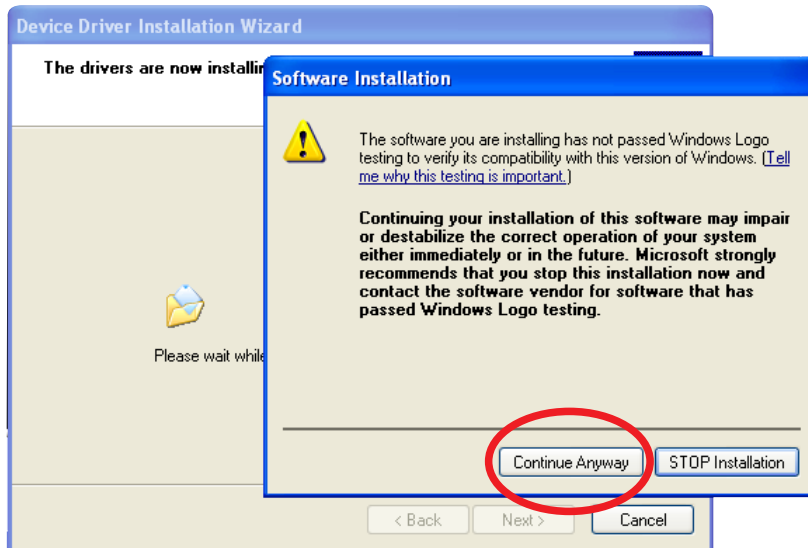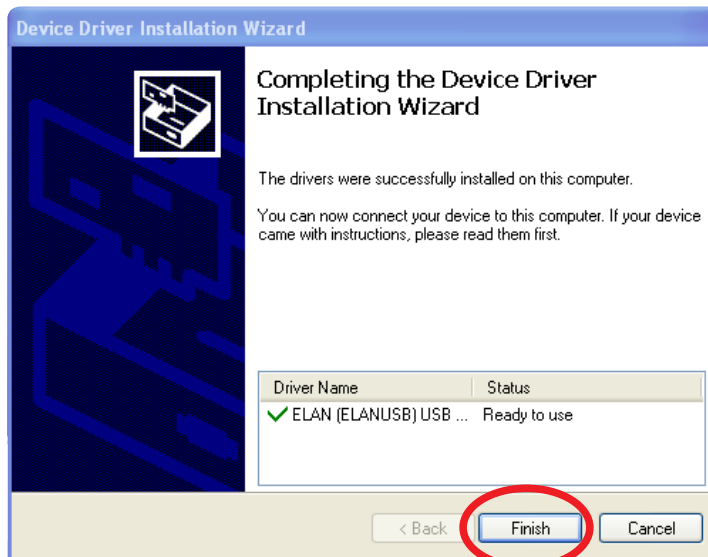Step5 Choose " Robotic Arm " folder.

Step6 Click " Install " icon.

Step7 Click "Next" to continue.

Step8 Click "Continue Anyway" .

Device Driver Installation Wizard

The drivers are now installi...

Software Installation

⚠ The software you are installing has not passed Windows Logo testing to verify its compatibility with this version of Windows. (Tell me why this testing is important.)

Continuing your installation of this software may impair or destabilize the correct operation of your system either immediately or in the future. Microsoft strongly recommends that you stop this installation now and contact the software vendor for software that has passed Windows Logo testing.

[Continue Anyway]   [STOP Installation]

Please wait while

[< Back] [Next >] [Cancel]

Step9 Finish USB DRIVER Install.

Device Driver Installation Wizard

Completing the Device Driver Installation Wizard

The drivers were successfully installed on this computer.

You can now connect your device to this computer. If your device came with instructions, please read them first.

Driver Name	Status
✔ ELAN (ELANUSB) USB ...	Ready to use

[< Back] [Finish] [Cancel]

Step10 Click "Next" to continue.

Robotic Arm Setup

Robotic Arm Installer

Welcome to the installer for Robotic Arm .

It is strongly recommended that you exit all Windows programs before continuing with this installation.

If you have any other programs running, please click Cancel, close the programs, and run this setup again.

Otherwise, click Next to continue.

[Next >] [Cancel]

Step11 Fill in your name or company and click "Next" to continue.

Robotic Arm Setup

User Information
Enter your user information and click Next to continue.

1

Name:
XXX

Company:
XXX

2

< Back   Next >   Cancel

Step12 Click "Next" to continue.

Robotic Arm Setup

Installation Folder
Where would you like Robotic Arm to be installed?

The software will be installed in the folder listed below. To select a different location, either type in a new path, or click Change to browse for an existing folder.

Install Robotic Arm to:
C:\Program Files (x86)\Robotic Arm   Change...

< Back   Next >   Cancel

Step13 Click "Next" to continue.
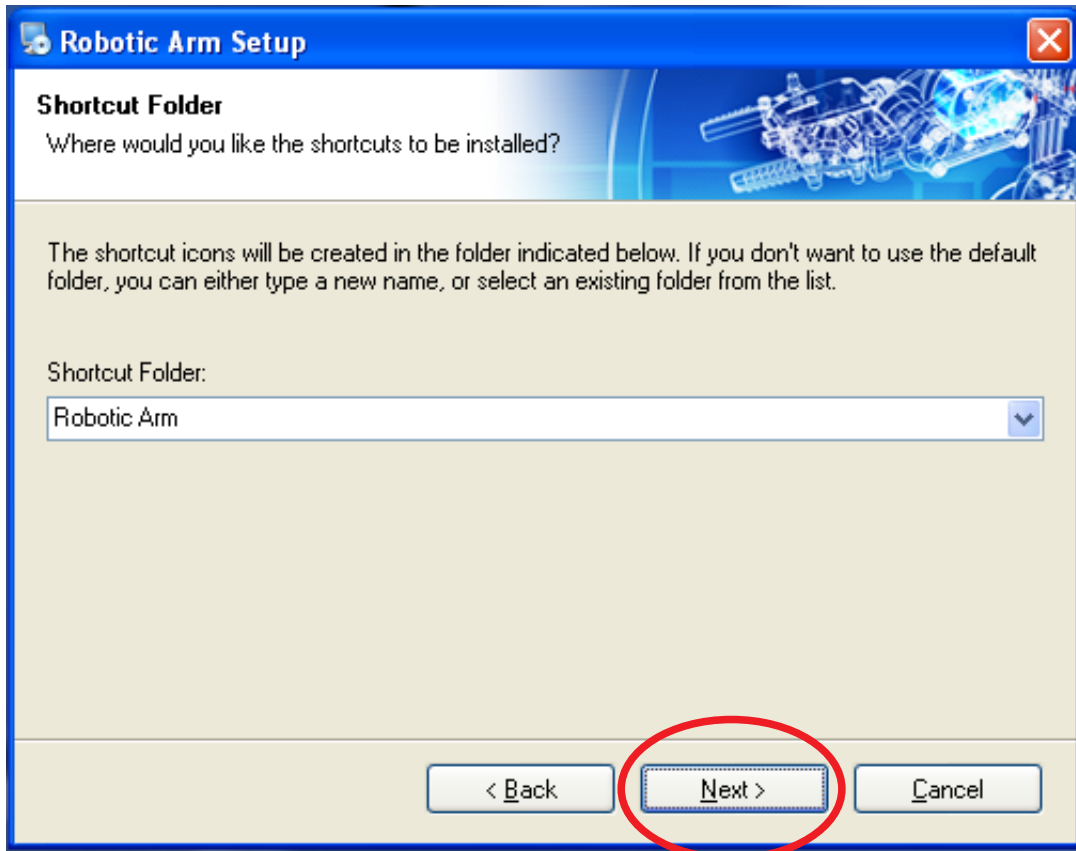
Step14 Click "Next" to continue.
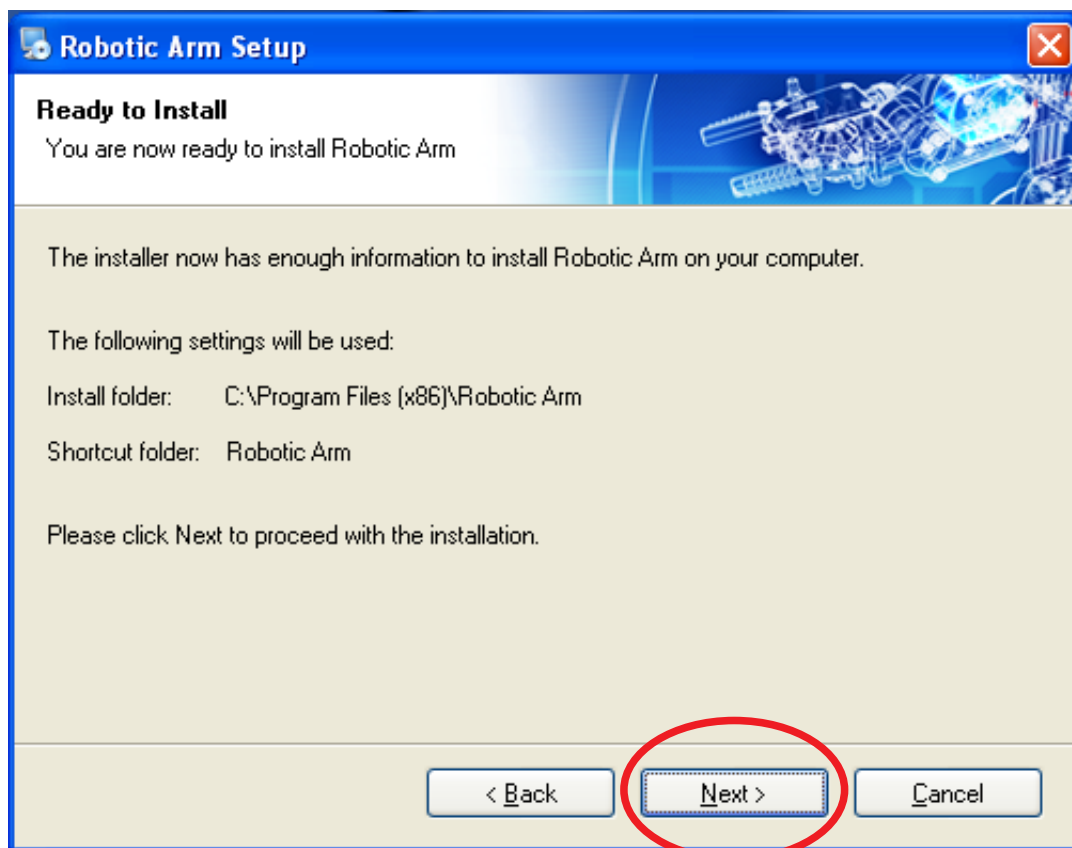
Step15 Wait......
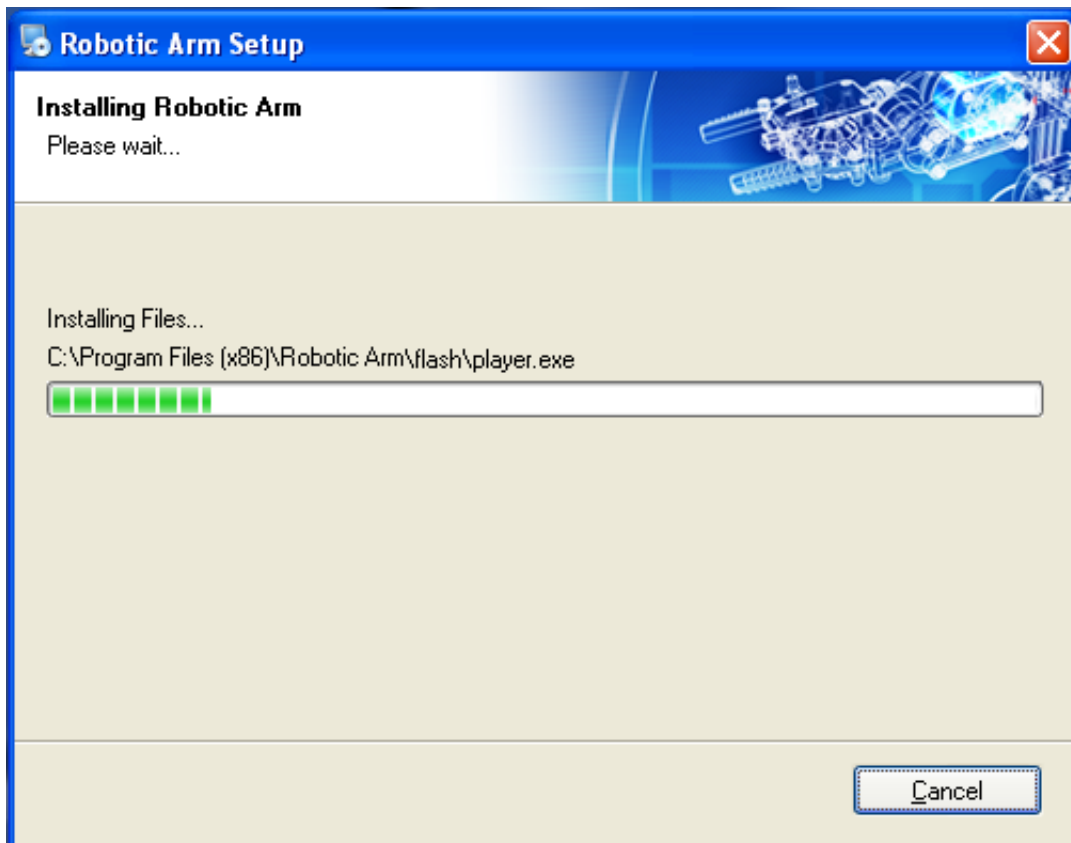
Step16   Check the box " ☑ I have read and agree to the terms ...... ".
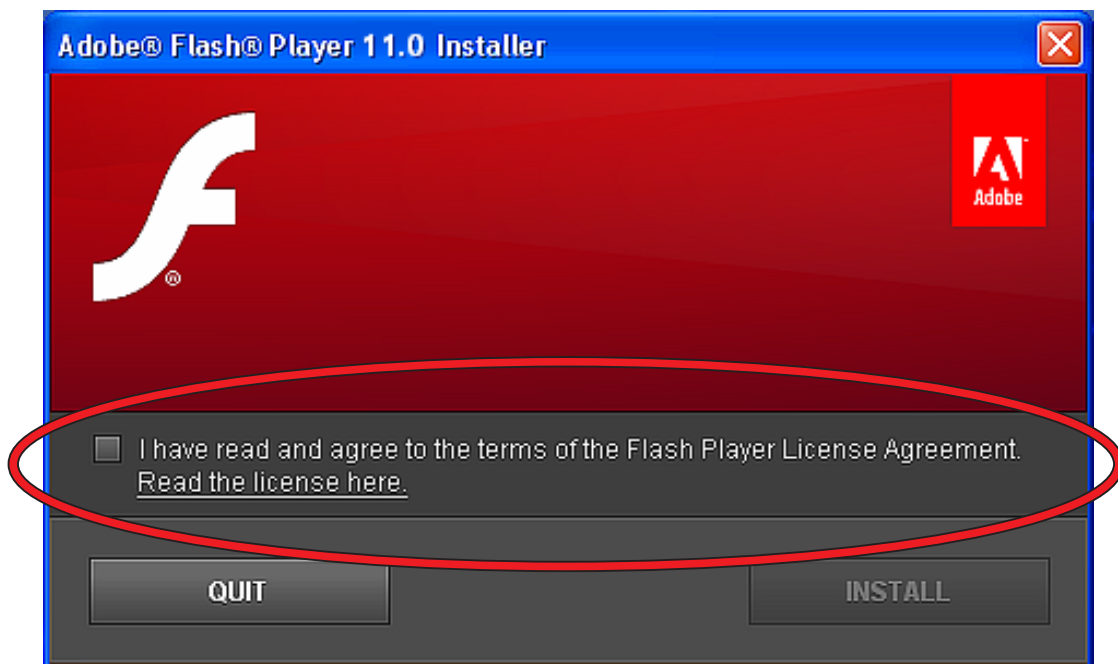
Step17　Click " INSTALL " to continue.
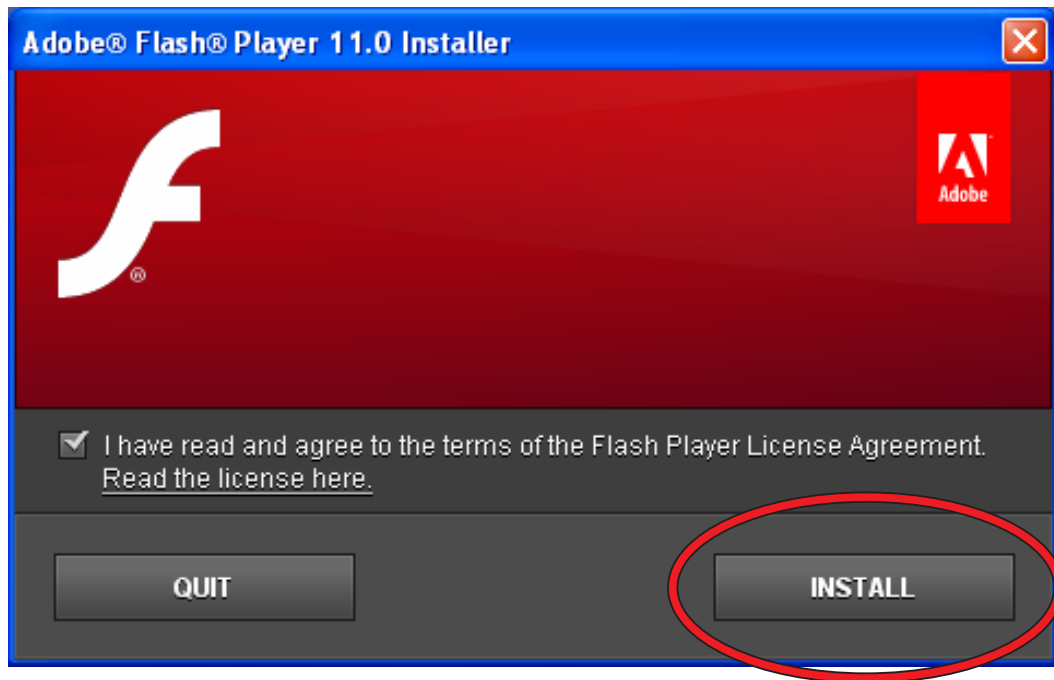
Step18　Click "Done" to continue.

Step19 Finish setup.

Robotic Arm Setup

Installation Successful

The Robotic Arm installation is complete.

Thank you for choosing Robotic Arm

Please click Finish to exit this installer.
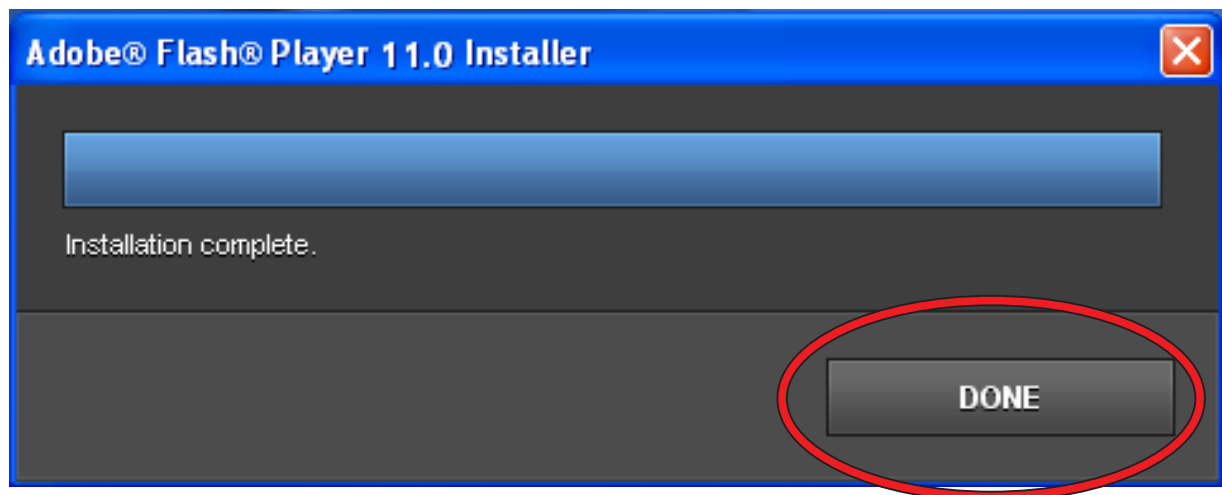
Finish
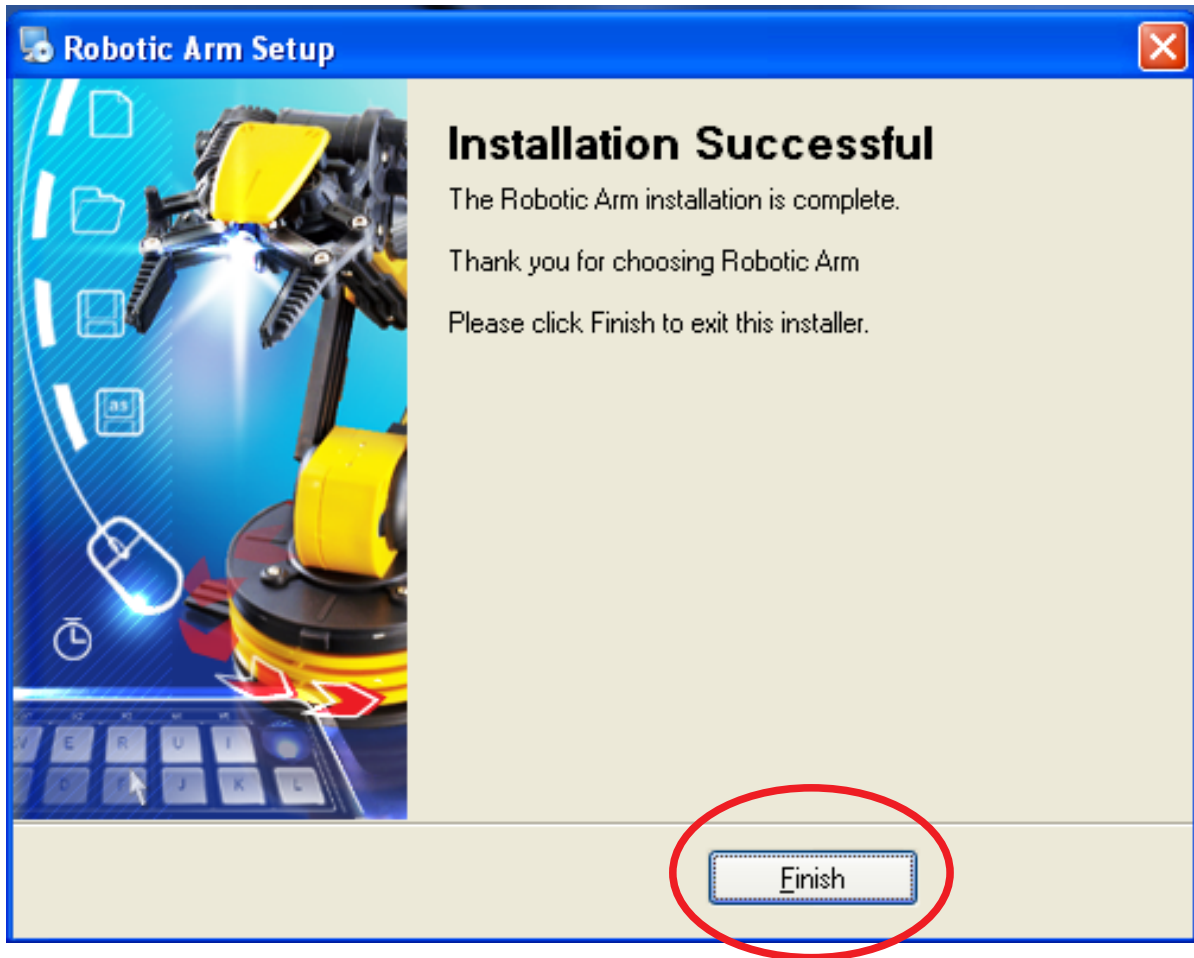
2.SET UP   (For Windows VISTA)

2-1.Hardware and system requirements

OS : Windows VISTA

CPU : Pentium3, 1.0GHz or higher

Memory : 256MB or higher

Hardware Disk Space : 100MB or more

Display : Super VGA (800x600) or higher

Color monitor with high color 16-bit or higher

2-2.Install USB Driver and MAIN PROGRAM

A.Put the disk into your CD-ROM

B.Connect Robotic Arm and PC with the USB cable.

C.Turn ON the Robotic Arm.

Trun ON
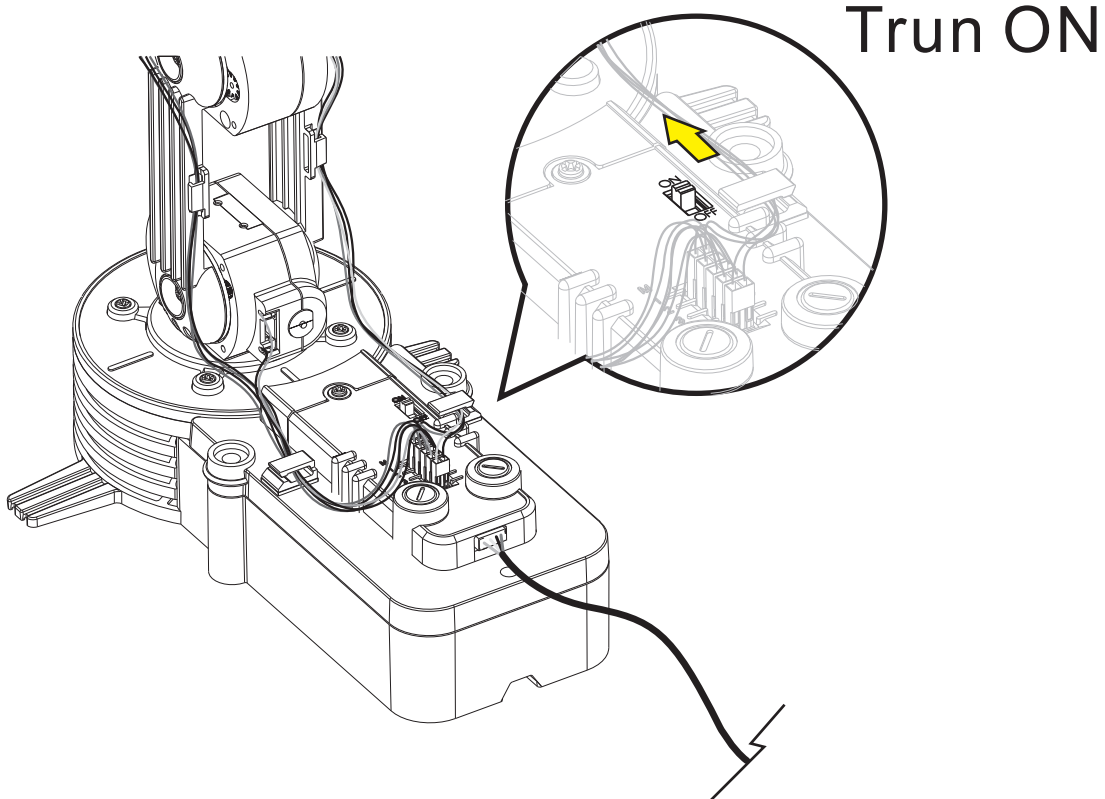
D.Install USB Driver and MAIN PROGRAM.

Step1 Click " Don't show this message again for this device " to continue.
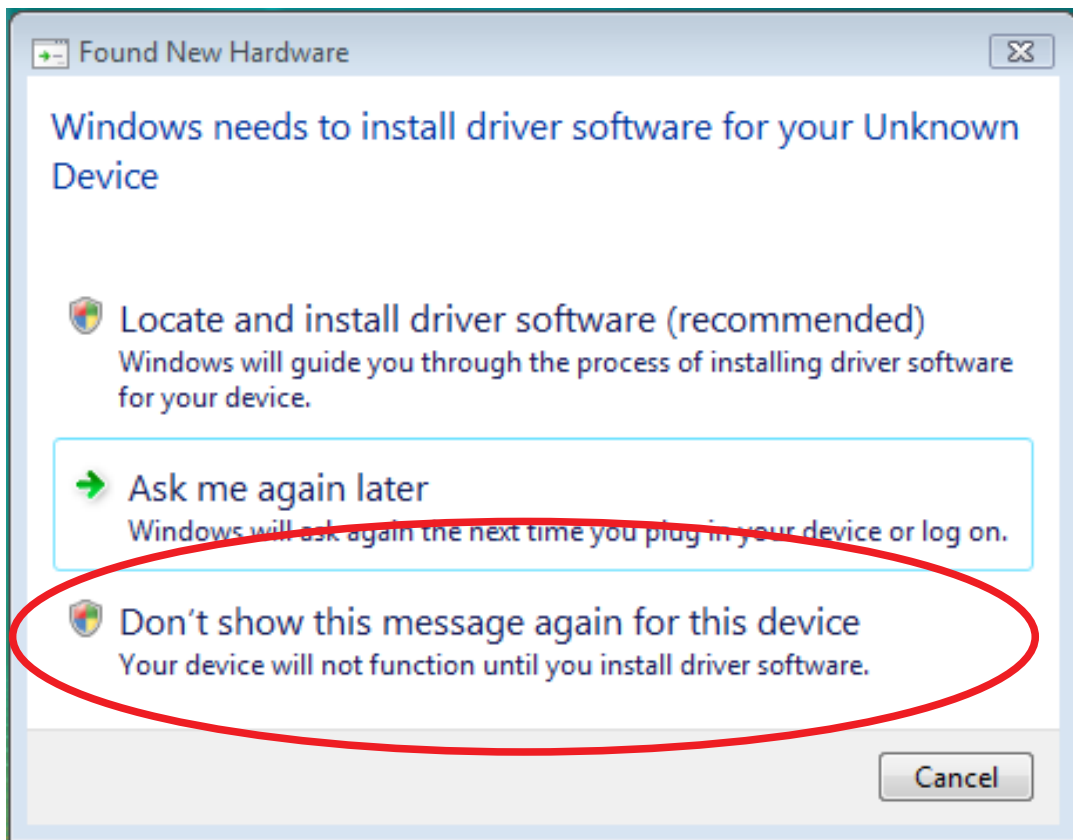
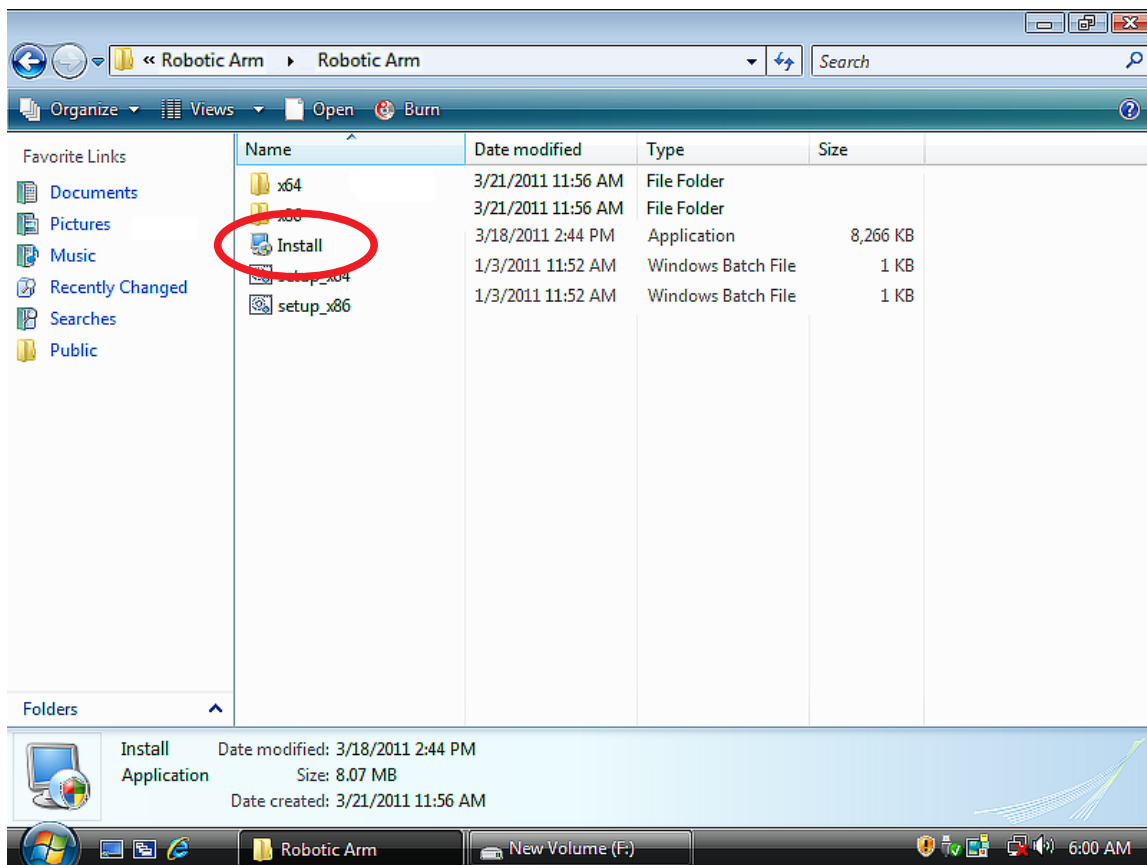Step2 Click "Cancel" to go next.

Step3 Go to " Computer " choice.

Internet
Internet Explorer

E-mail
Windows Mail

Welcome Center

Windows Media Player

Windows Photo Gallery

Windows Anytime Upgrade

Windows Live Messenger Download

2 →

Windows Calendar

Windows Meeting Space

Windows Easy Transfer

Paint

► All Programs

Start Search

1

Documents

Pictures

Music

Games

Recent Items ►

Computer

Network

Connect To

Control Panel

Default Programs

Help and Support

Step4 Click your CD-ROM icon.

► Computer ►

Search

Organize ▼   Views ▼   System properties   Uninstall or change a program   Map network drive

Favorite Links

Documents

Pictures

Music

Recently Changed

Searches

Public

Name	Type	Total Size	Free Space

Hard Disk Drives (3)

Local Disk (C:)
51.5 GB free of 58.5 GB

Local Disk (D:)
60.5 GB free of 69.3 GB

Local Disk (E:)
14.3 GB free of 21.0 GB

Devices with Removable Storage (3)

Floppy Disk Drive (A:)

CD-RW Drive (F:)

DVD RW Drive (G:) Robotic Arm
CD-ROM

14

Step5 Choose ” Robotic Arm ”.

Step6 Click ” Install ” icon.

Step7 Click ”Continue” to continue.

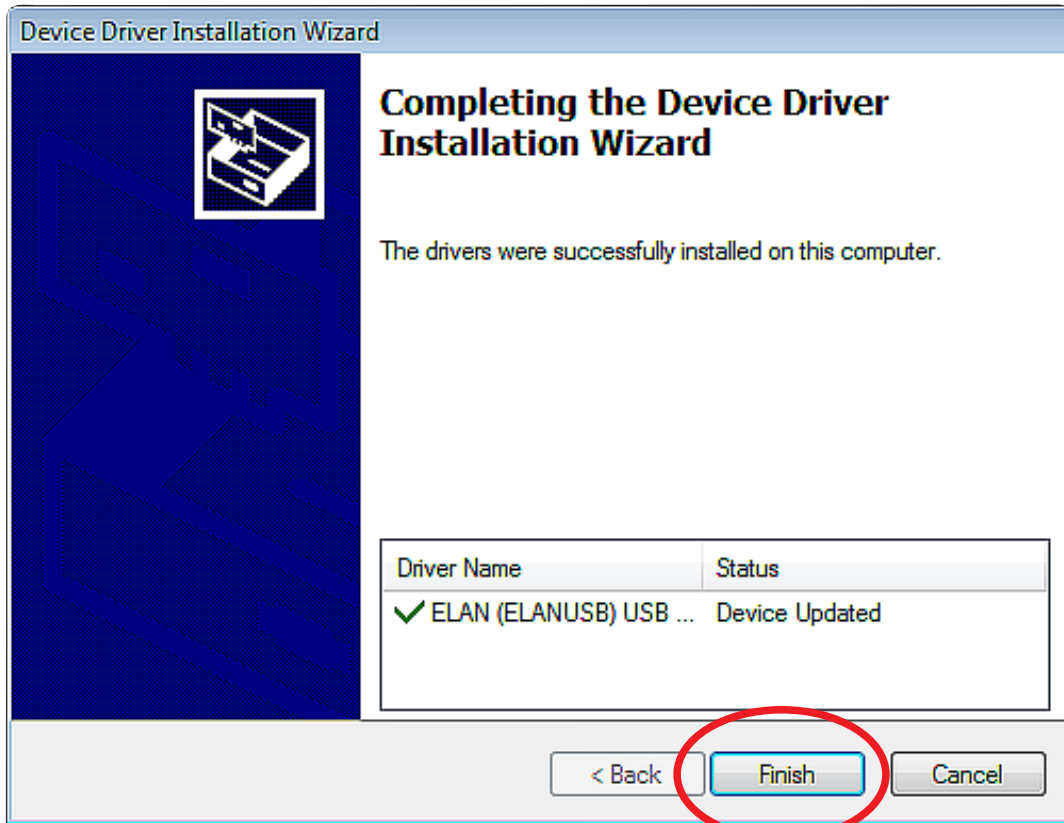
Step8 Click " Next " to continue.

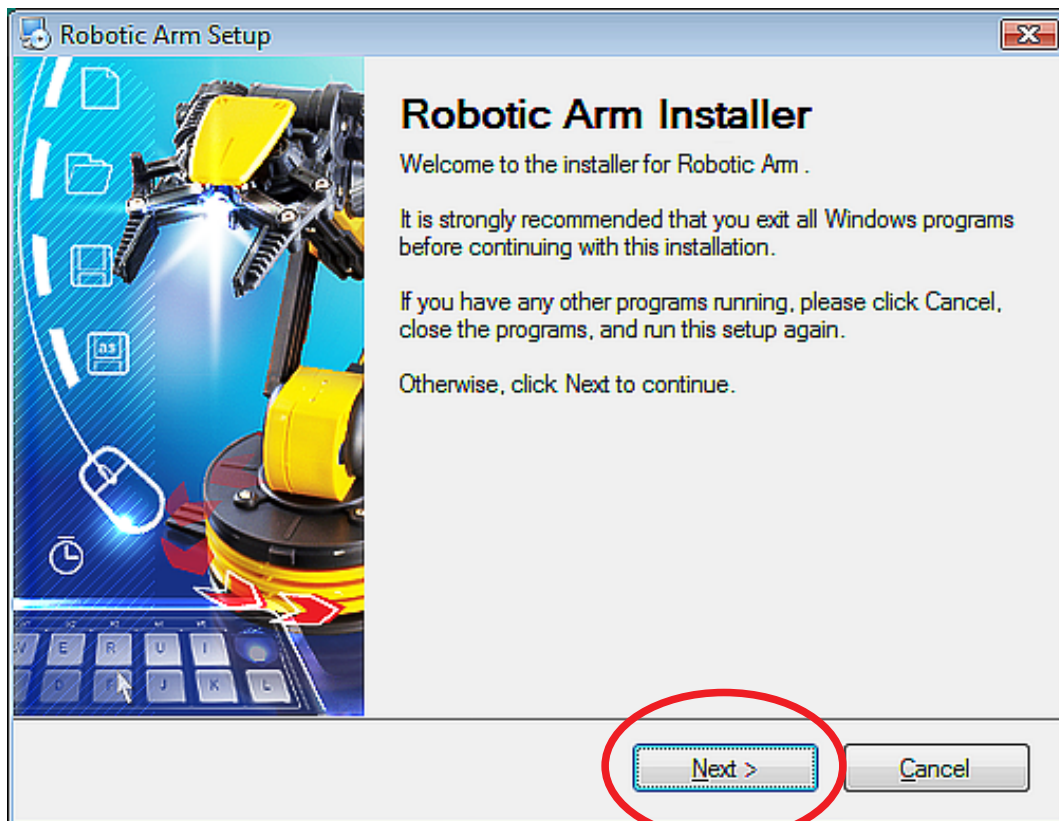Step 9 Click " Install this driver software anyway " to continue.

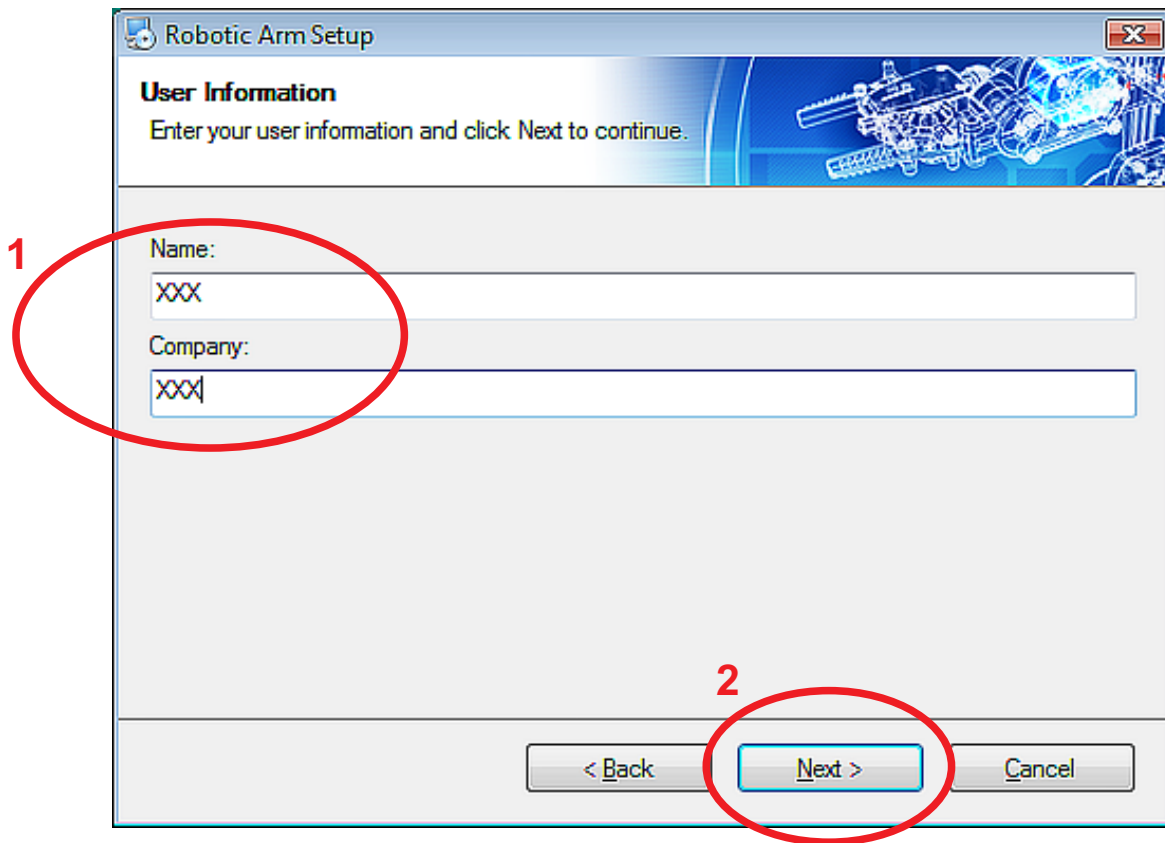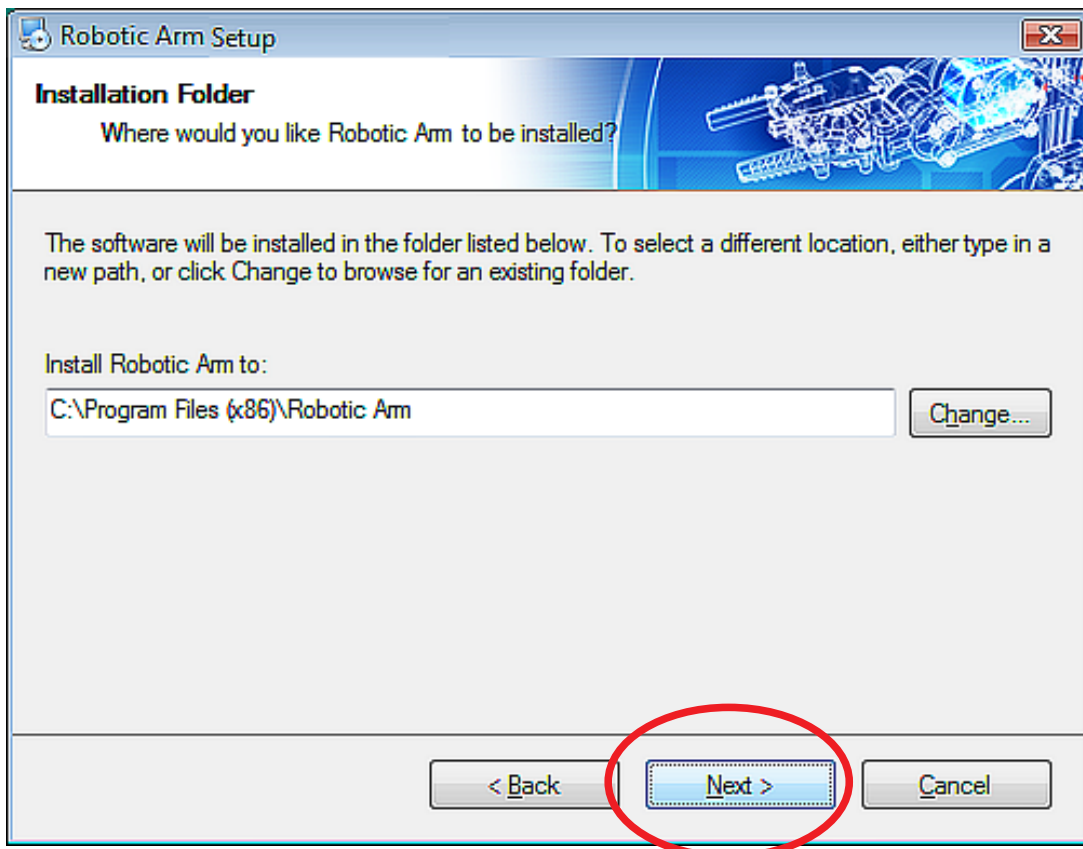Step10 Click " Next " to continue.

Step11 Click " Finish " to continue.

Step12 Click " Next " to continue.

18

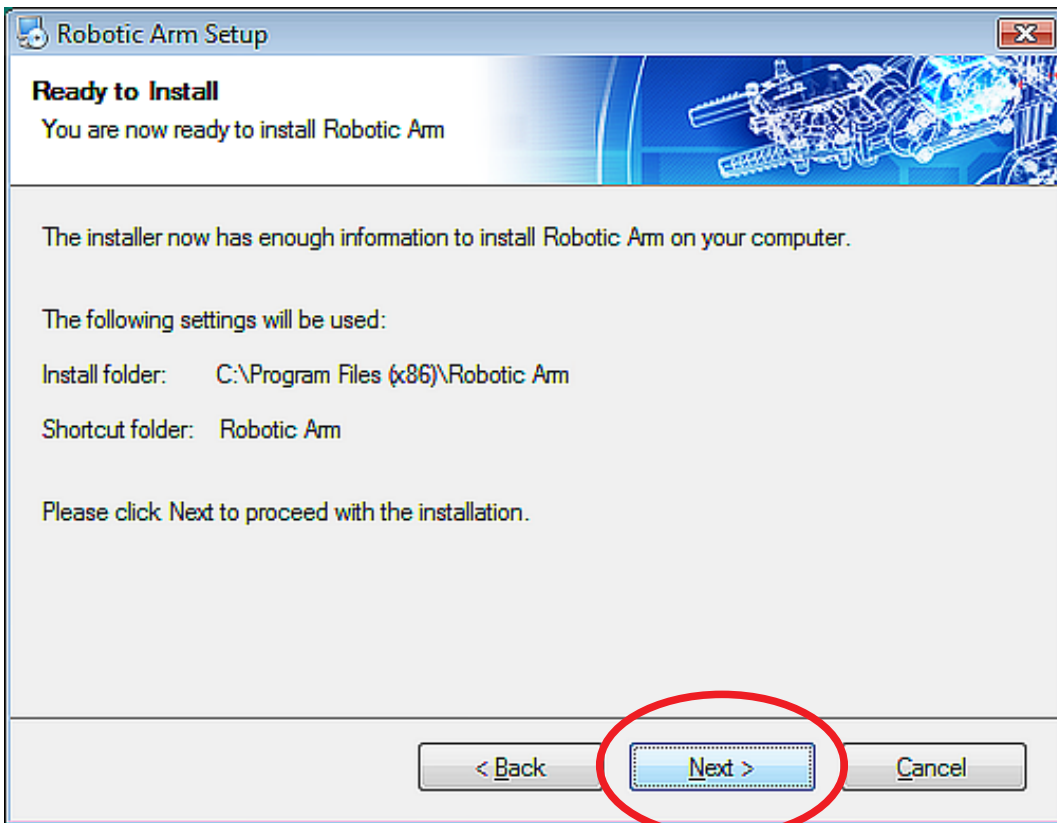Step13 Fill in your name or company and click "Next" to continue.

Robotic Arm Setup

User Information
Enter your user information and click Next to continue.

1

Name:

XXX

Company:

XXX

2

< Back   Next >   Cancel

Step14 Click " Next " to continue.

Robotic Arm Setup

Installation Folder
Where would you like Robotic Arm to be installed?

The software will be installed in the folder listed below. To select a different location, either type in a new path, or click Change to browse for an existing folder.

Install Robotic Arm to:

C:\Program Files (x86)\Robotic Arm   Change...

< Back   Next >   Cancel

Step15 Click " Next " to continue.

Step16 Click " Next " to continue.

Step17 Wait......
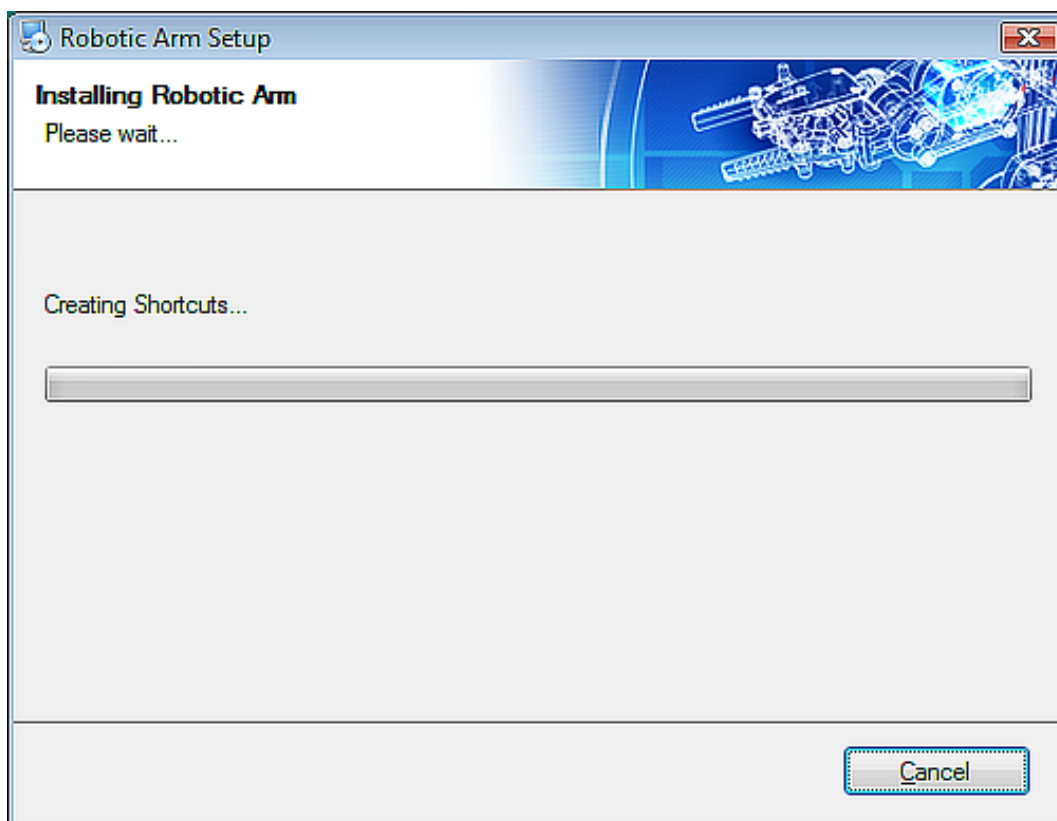
Step18 Check the box " ☑ I have read and agree to the terms of ...... " to continue.
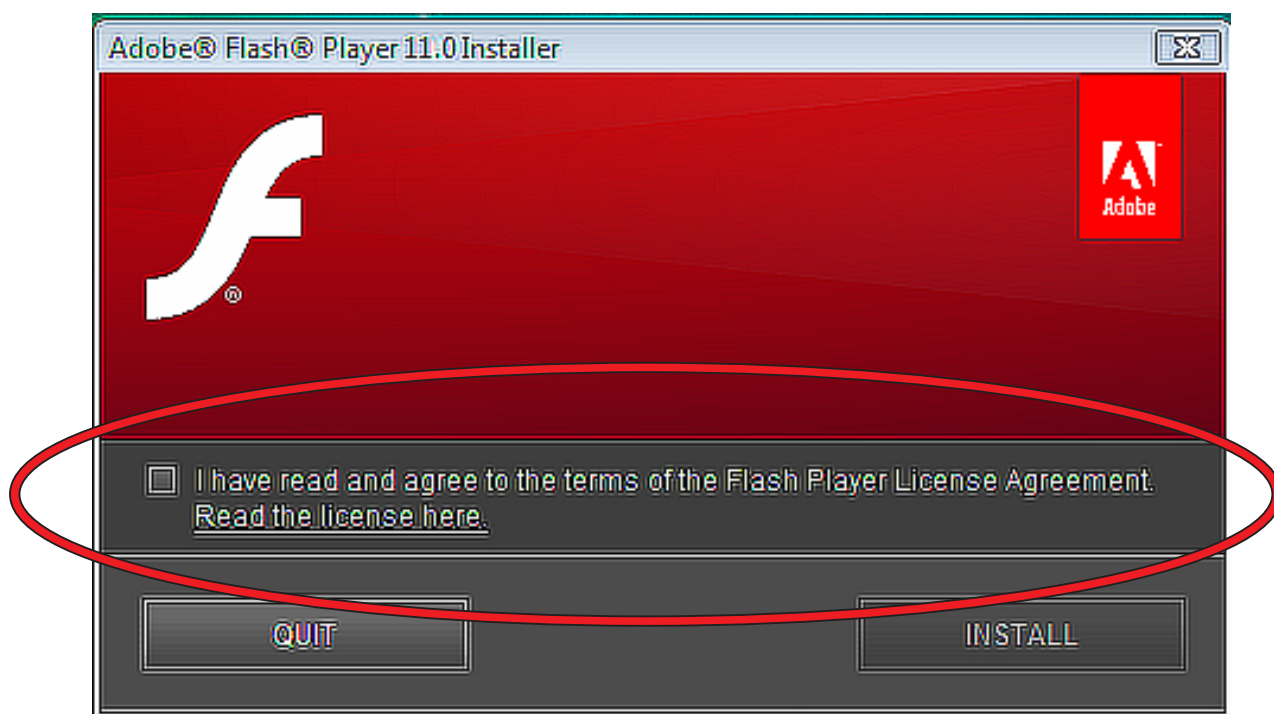
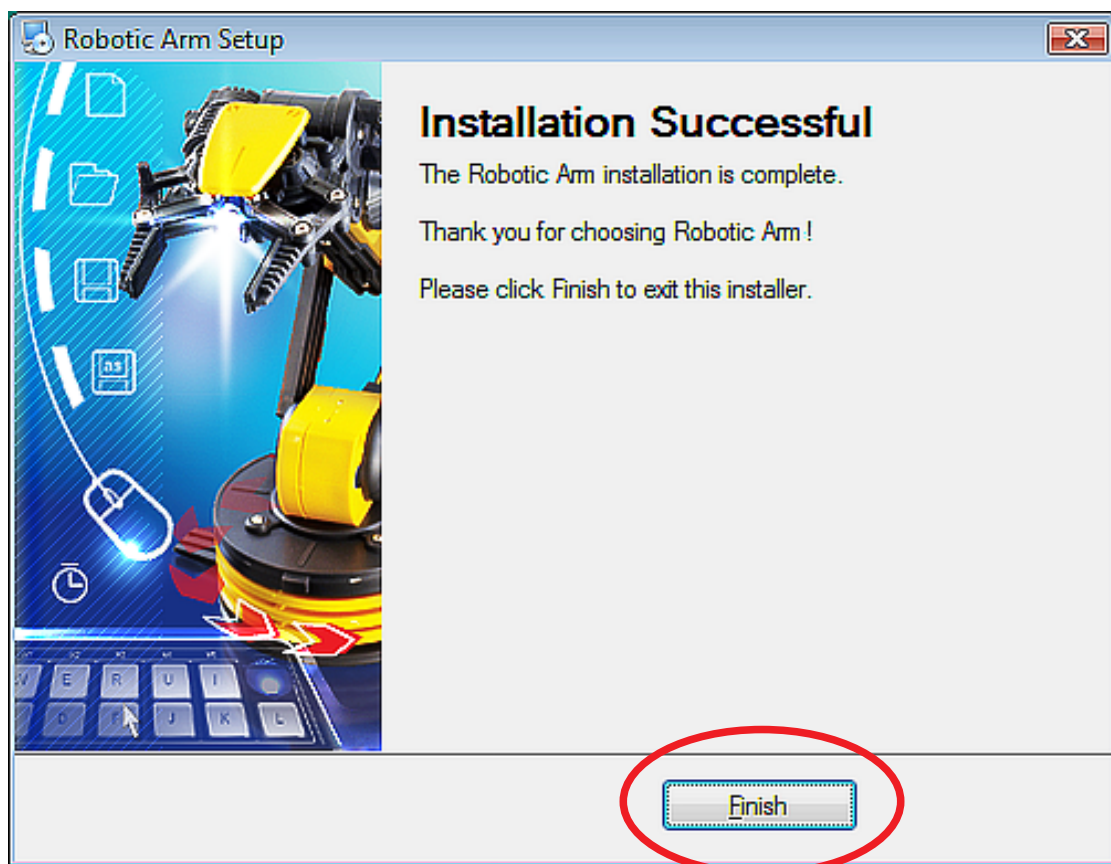Step19 Click " INSTALL " to continue.
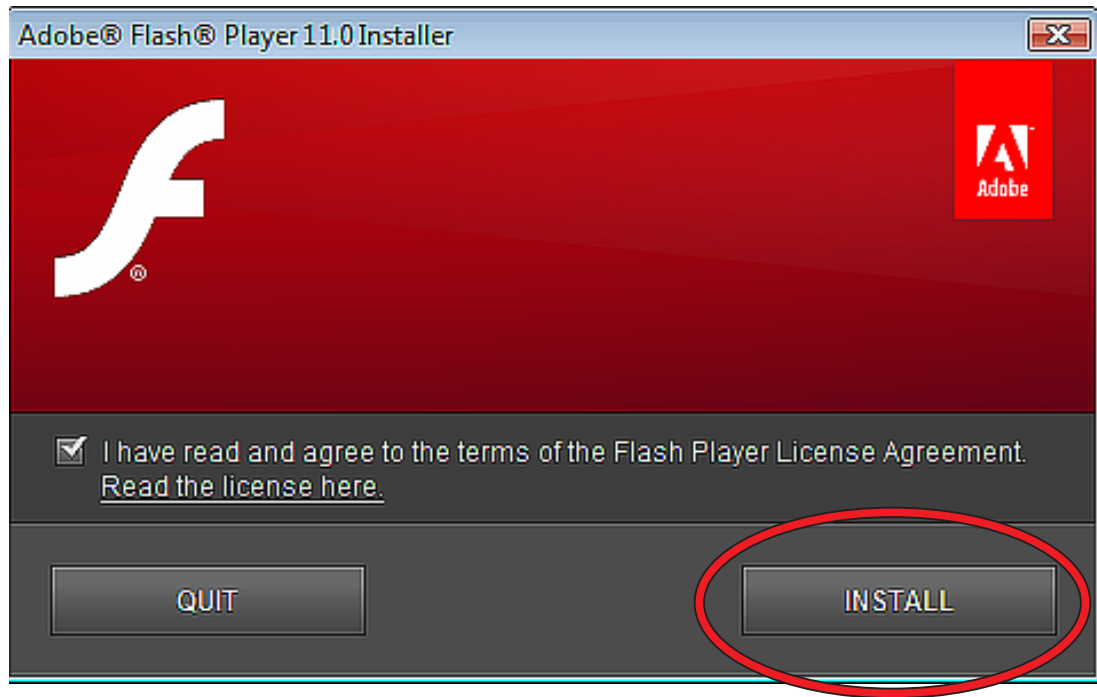
Step20 Wait.......
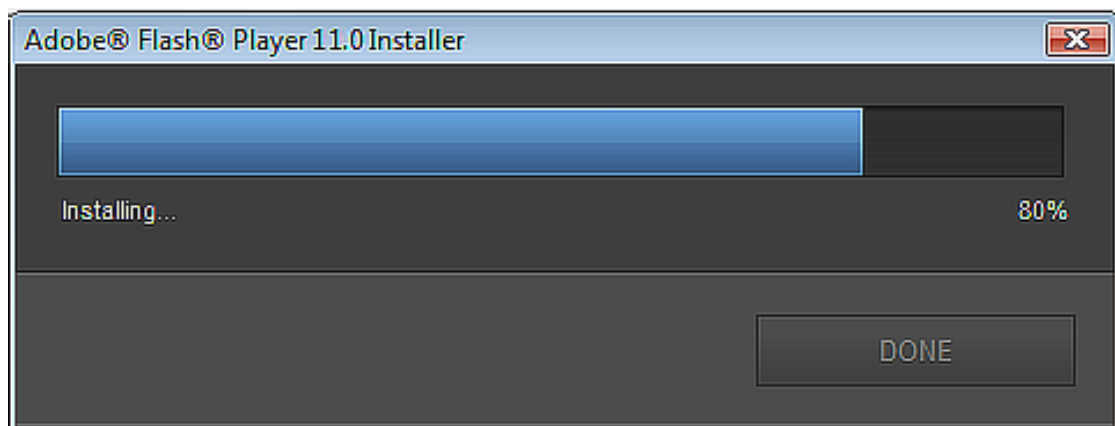
Step21 Click " DONE " to continue.
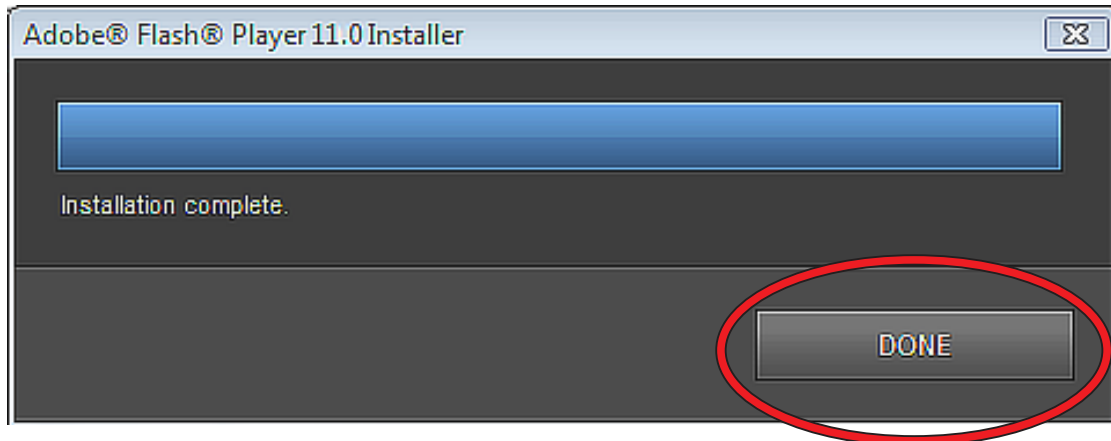
Step22 Finish setup.

3.SET UP (For Windows 7)

3-1.Hardware and system requirements

OS : Windows 7

CPU : Pentium3, 1.0GHz or higher

Memory : 256MB or higher

Hardware Disk Space : 100MB or more

Display : Super VGA (800x600) or higher

Color monitor with high color 16-bit or higher

3-2.Install USB Driver and MAIN PROGRAM

A.Put the disk into your CD-ROM

B.Connect Robotic Arm and PC with the USB cable.

C.Turn ON the Robotic Arm.

Trun ON
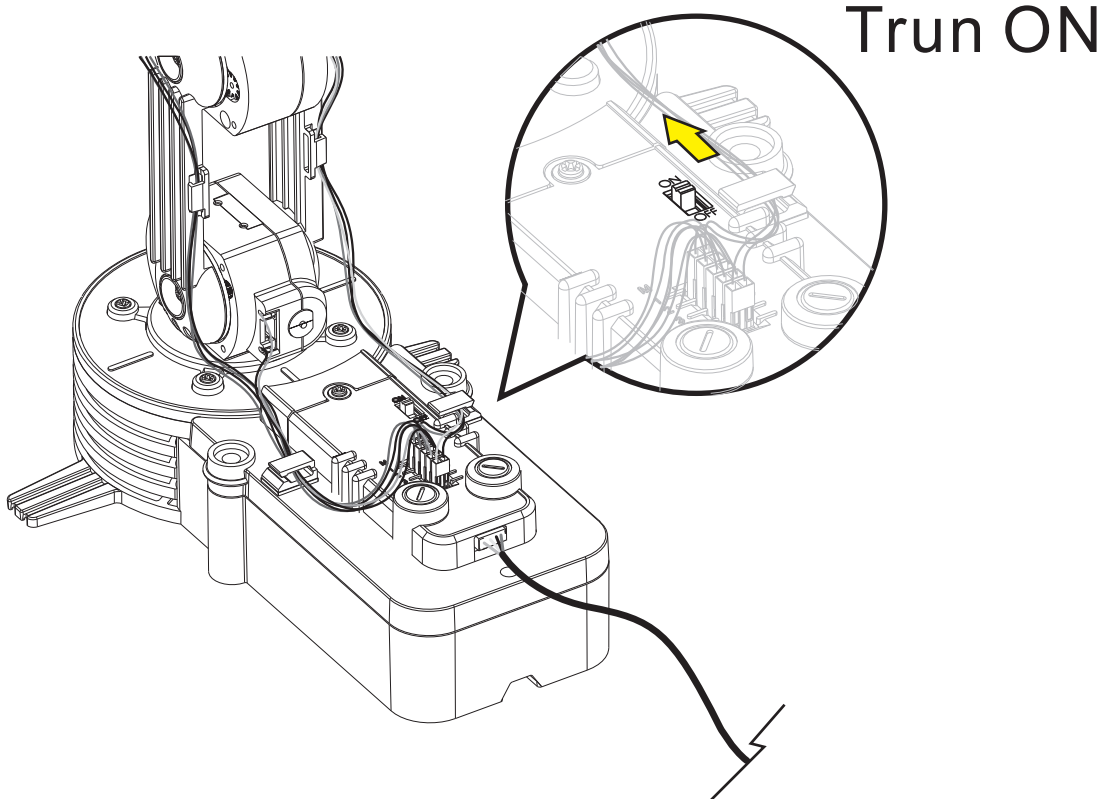
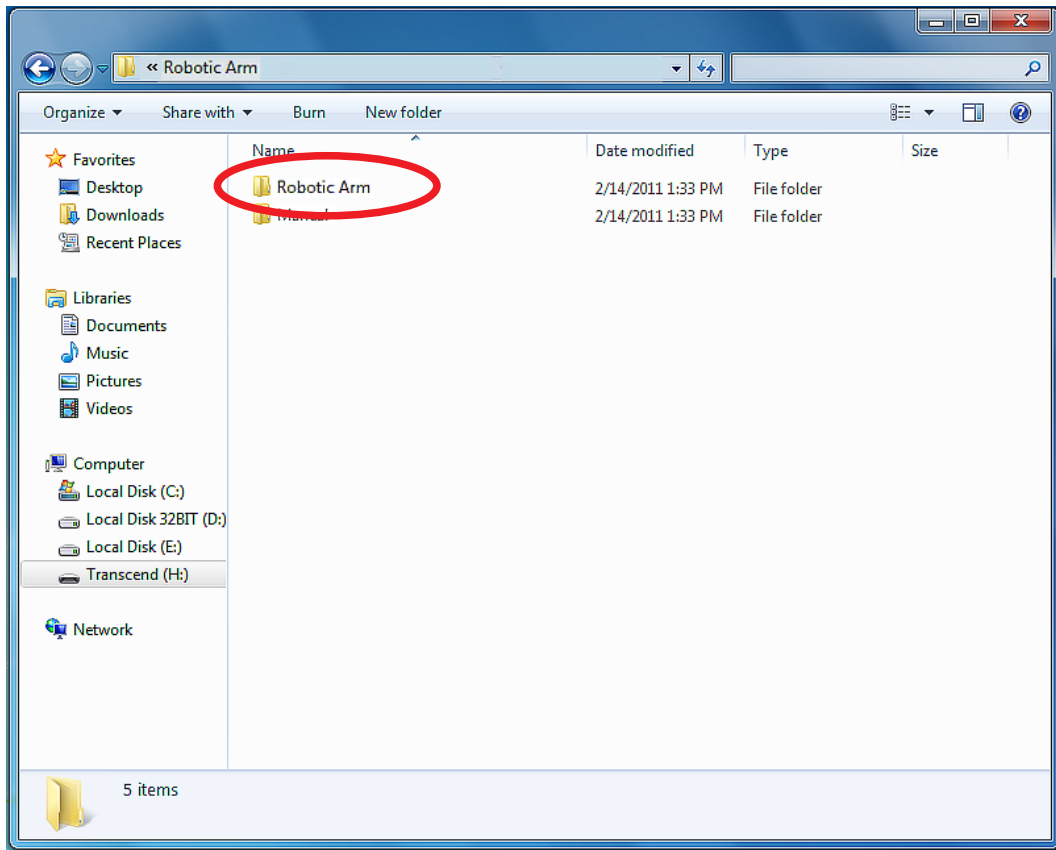## D. Install USB Driver and MAIN PROGRAM.
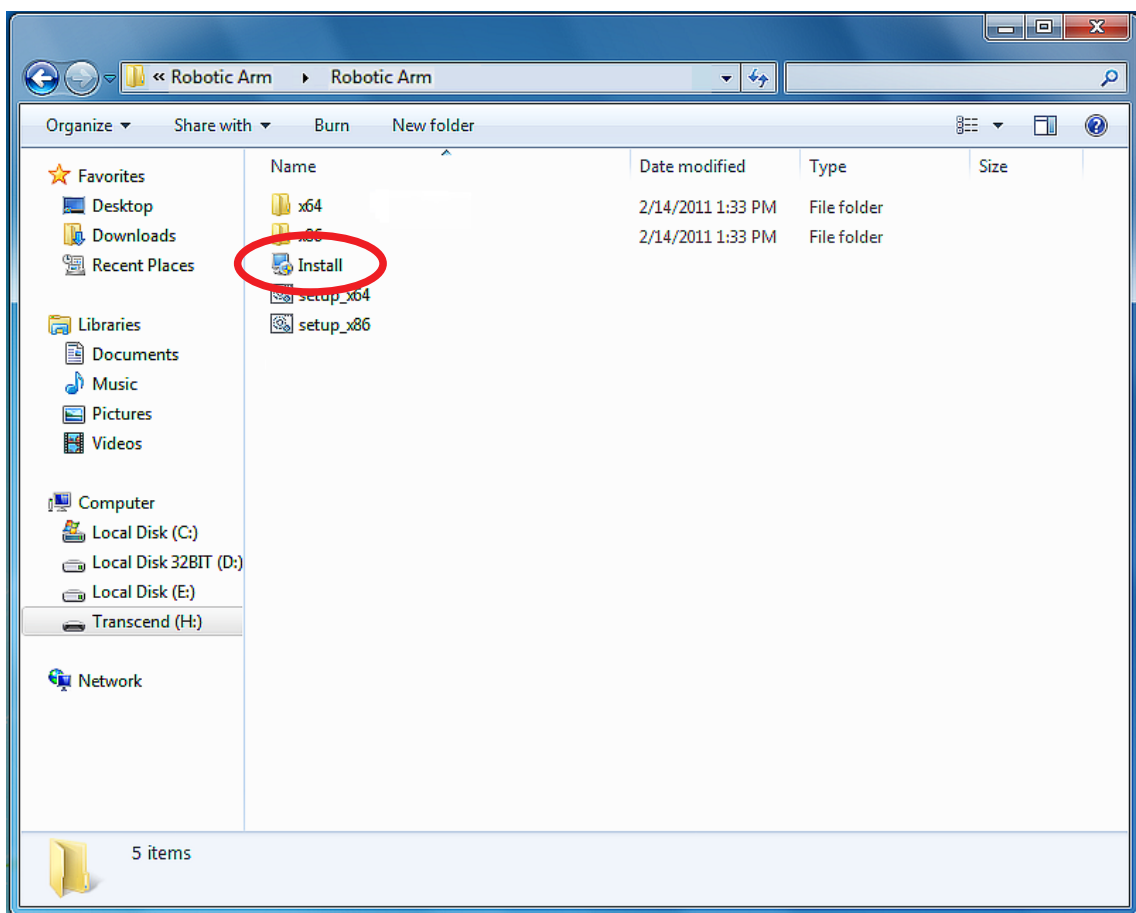
Step1 Wait......
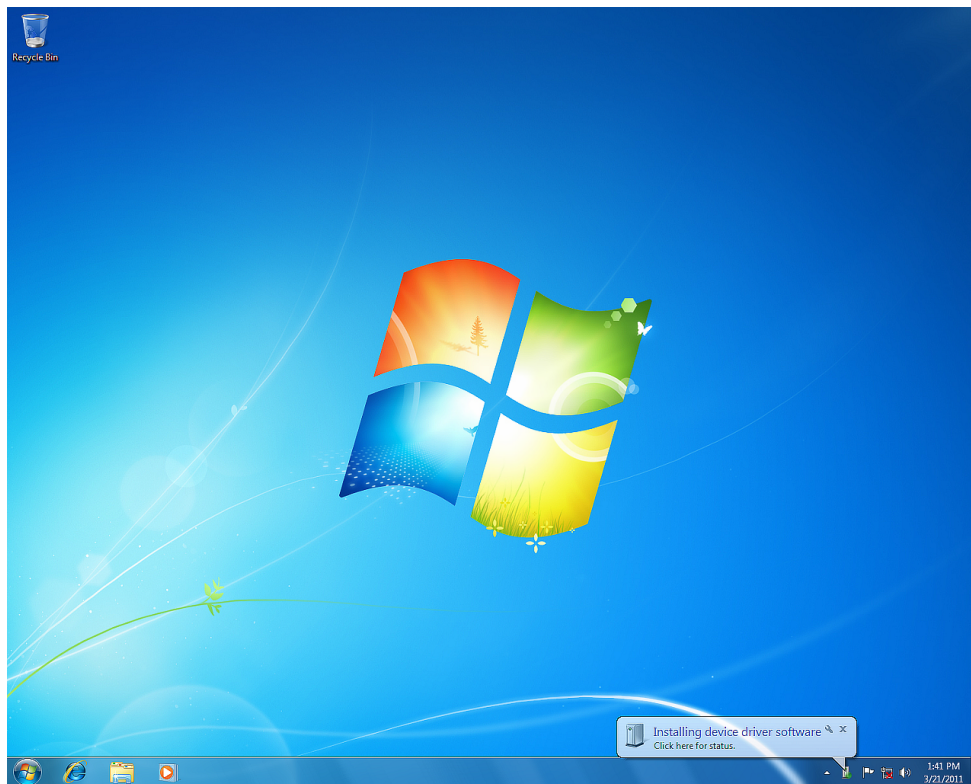
Step2 Wait......
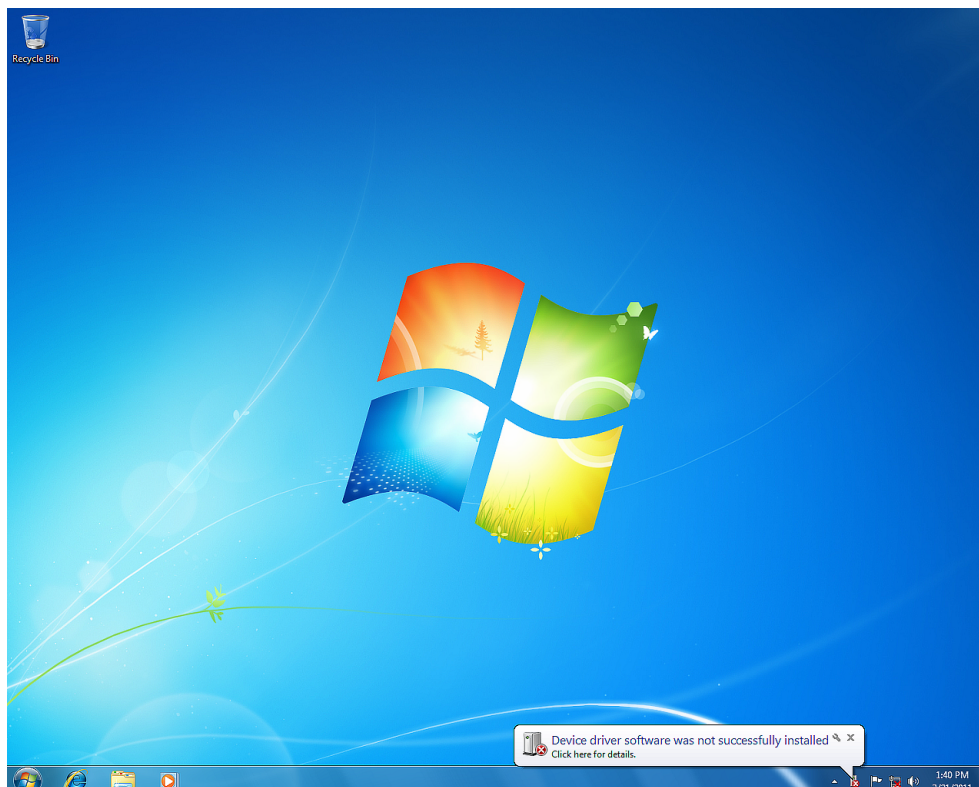
Step3 Go to " Computer " choice.
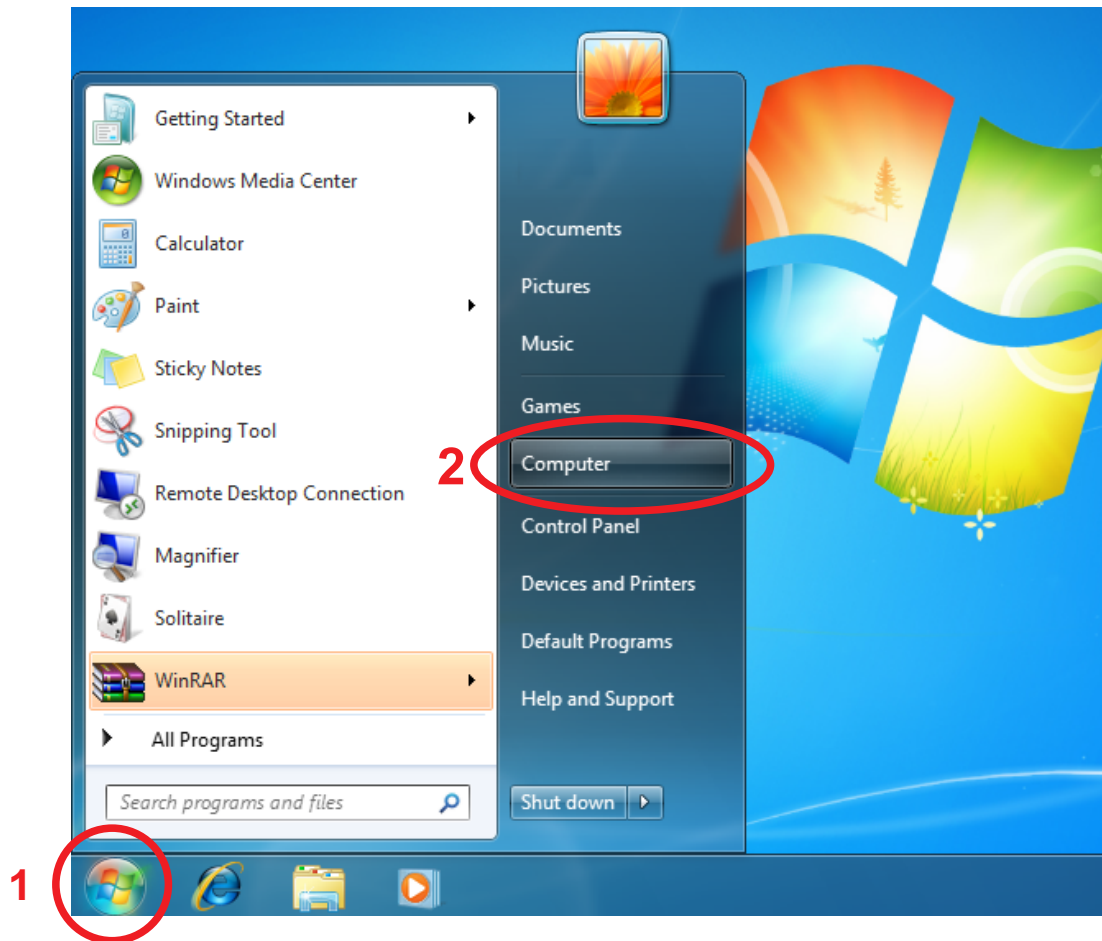
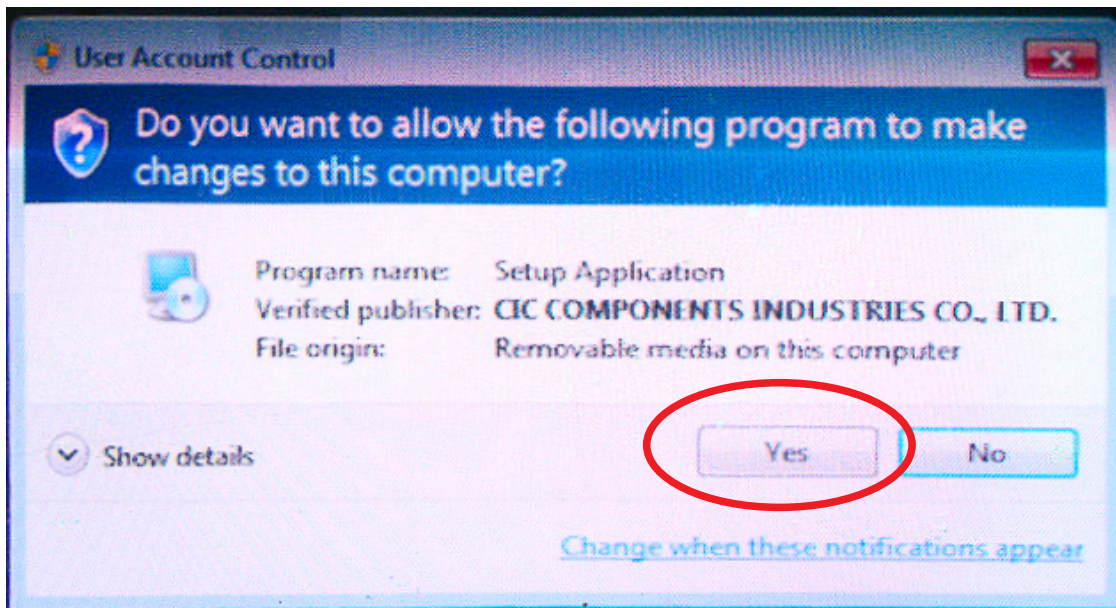Step4   Click your CD-ROM icon.
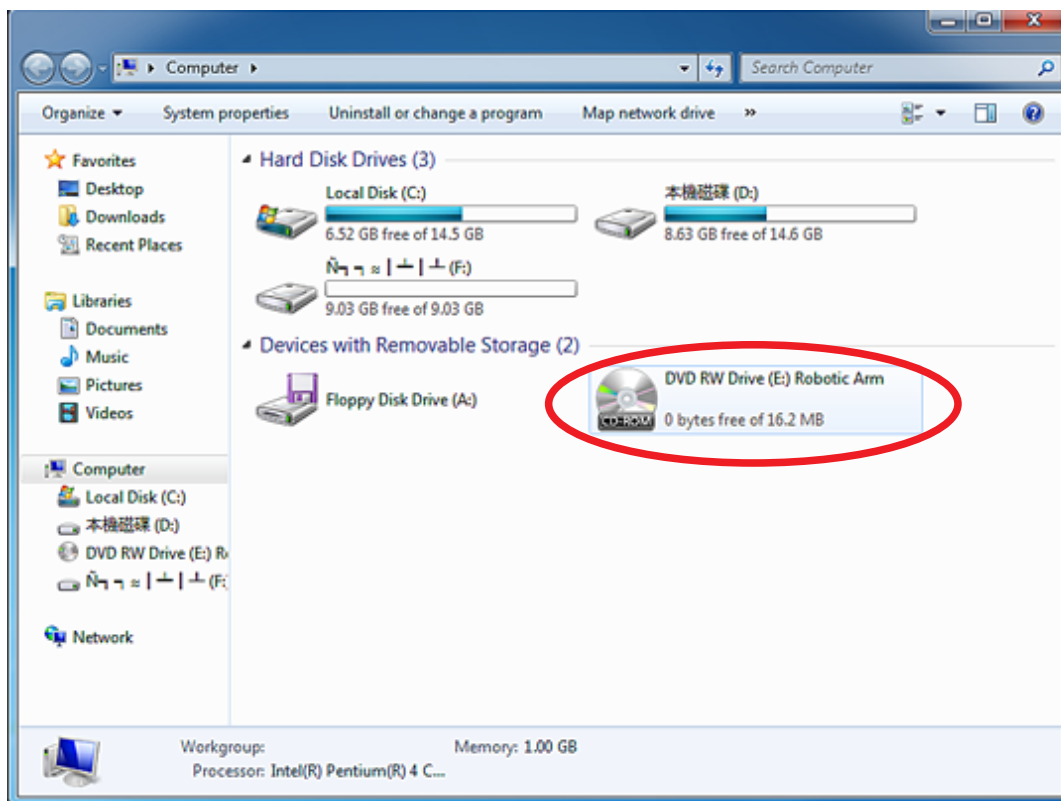
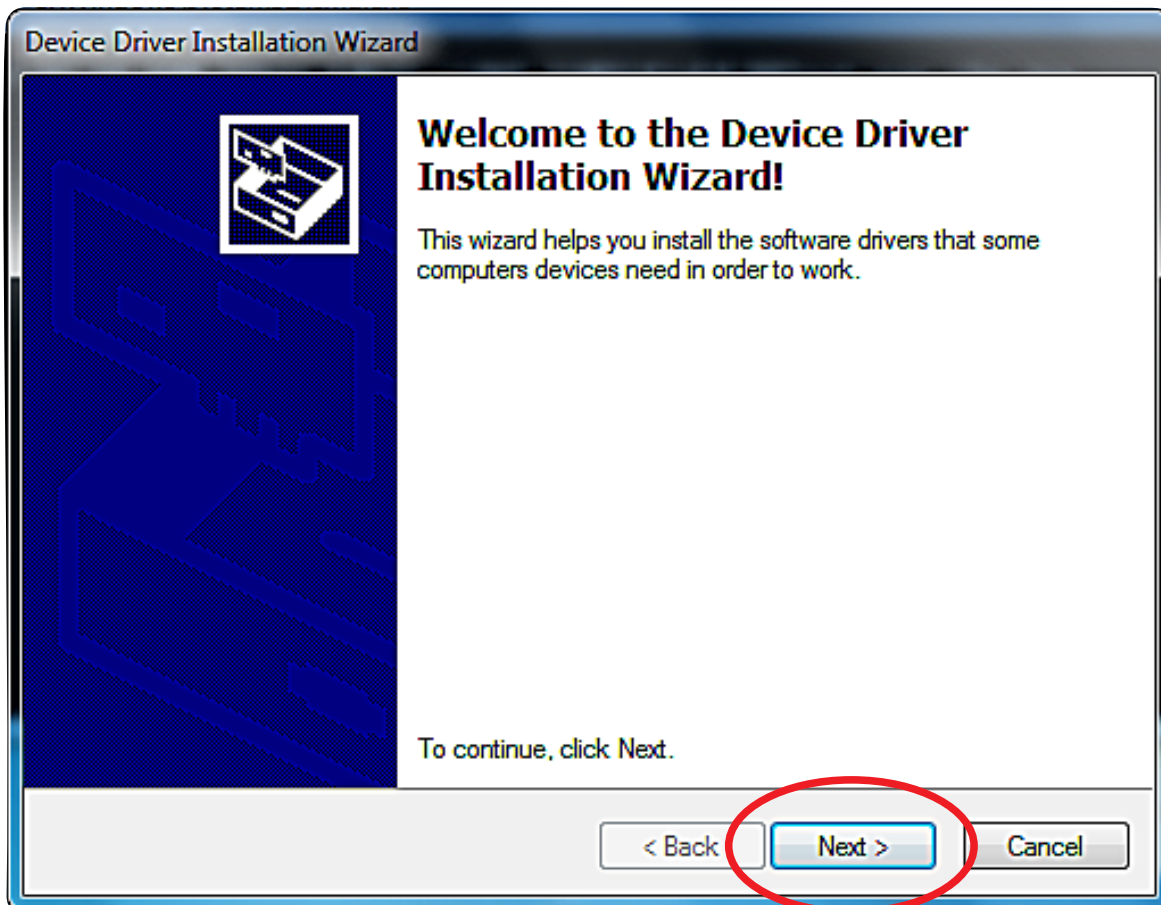**Step5 Choose " Robotic Arm ".**

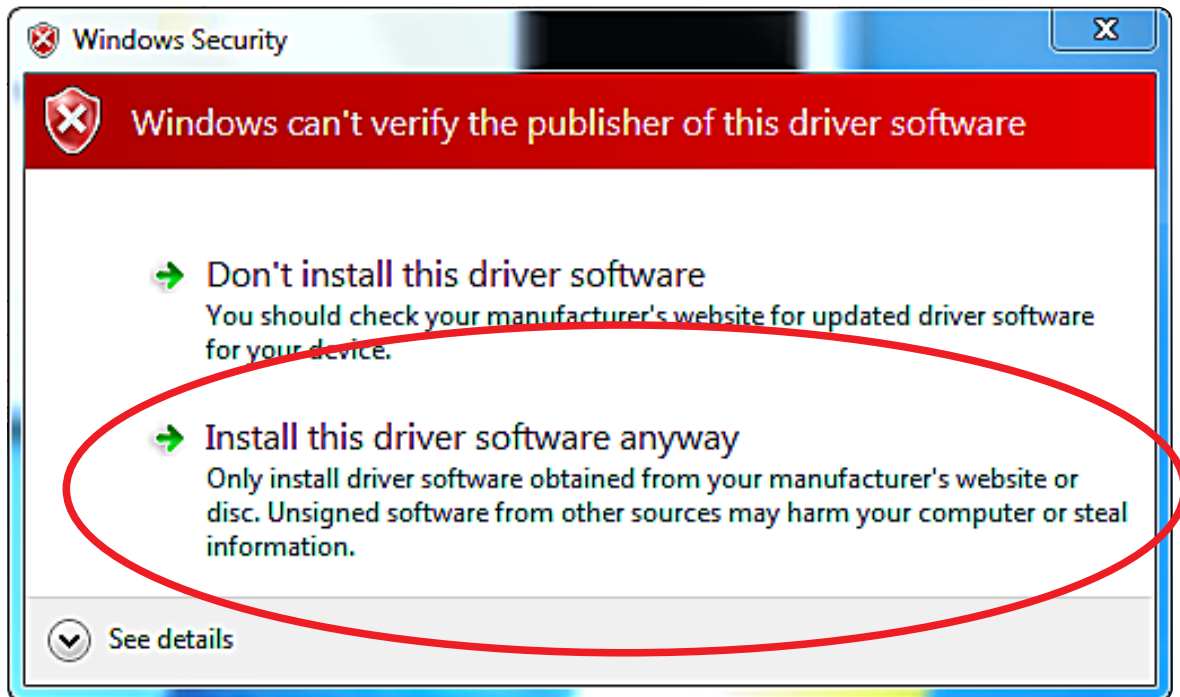**Step6 Click " Install " icon.**
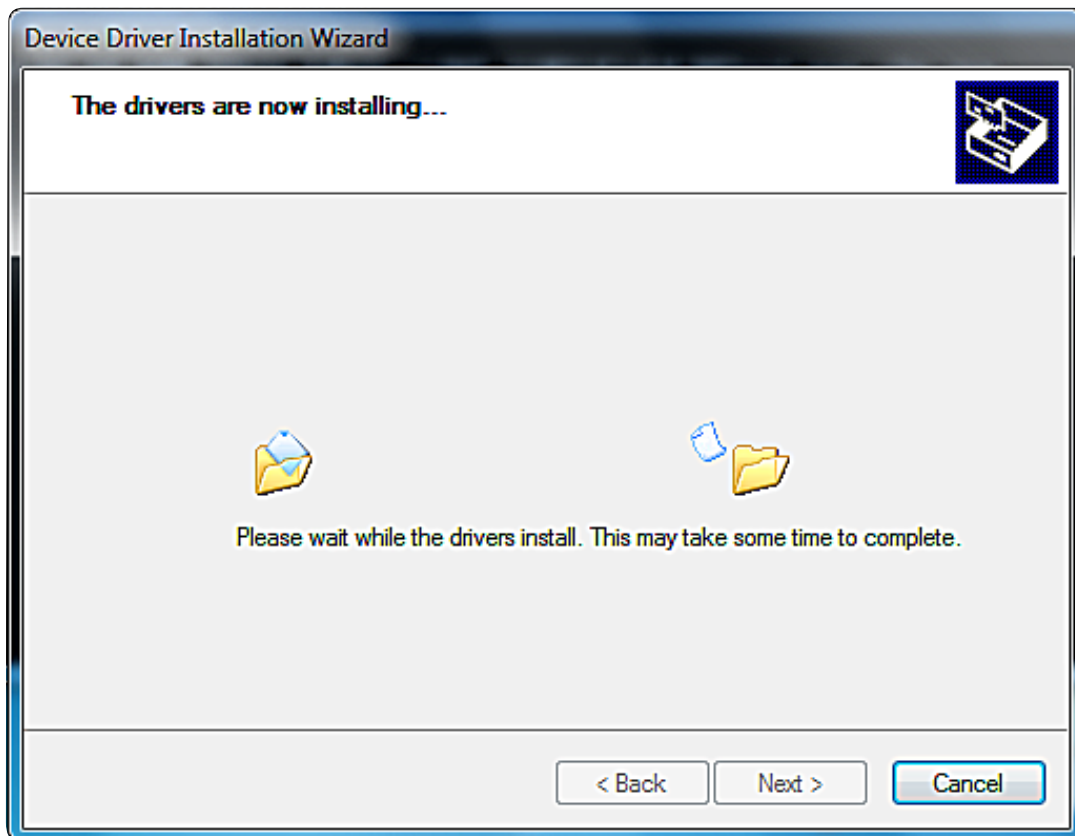
Step7 Click " YES " to continue.
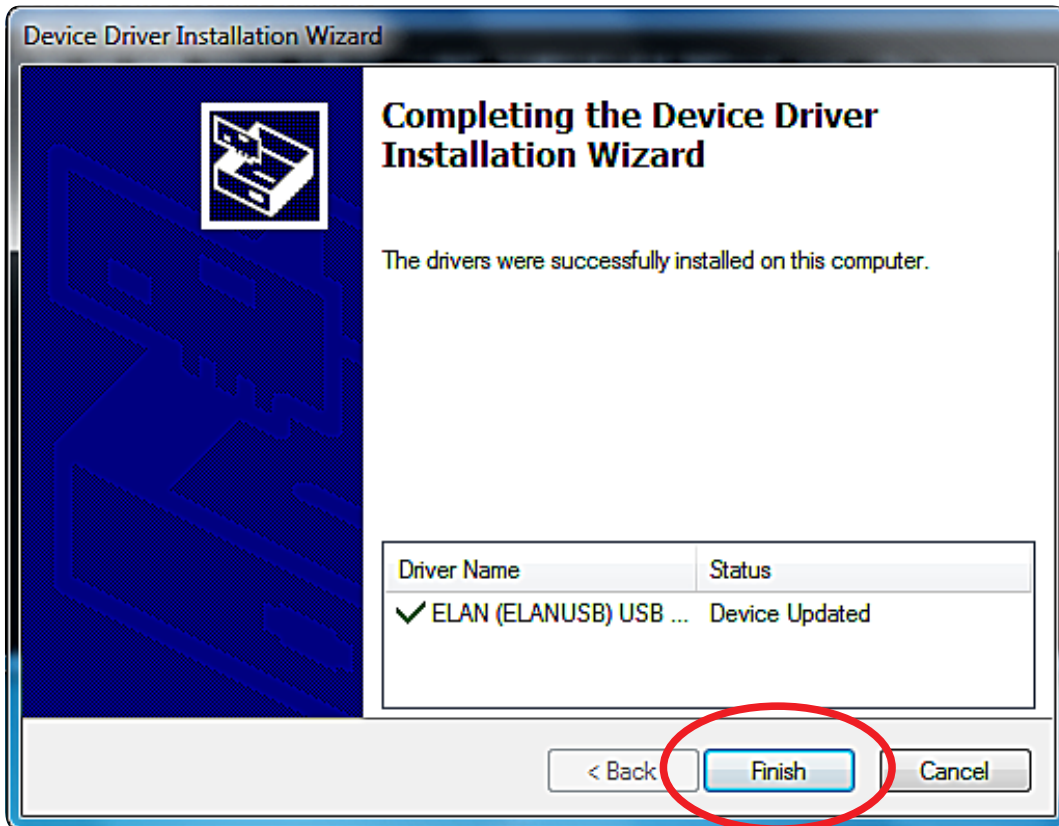

Step8 Click " Next " to continue.

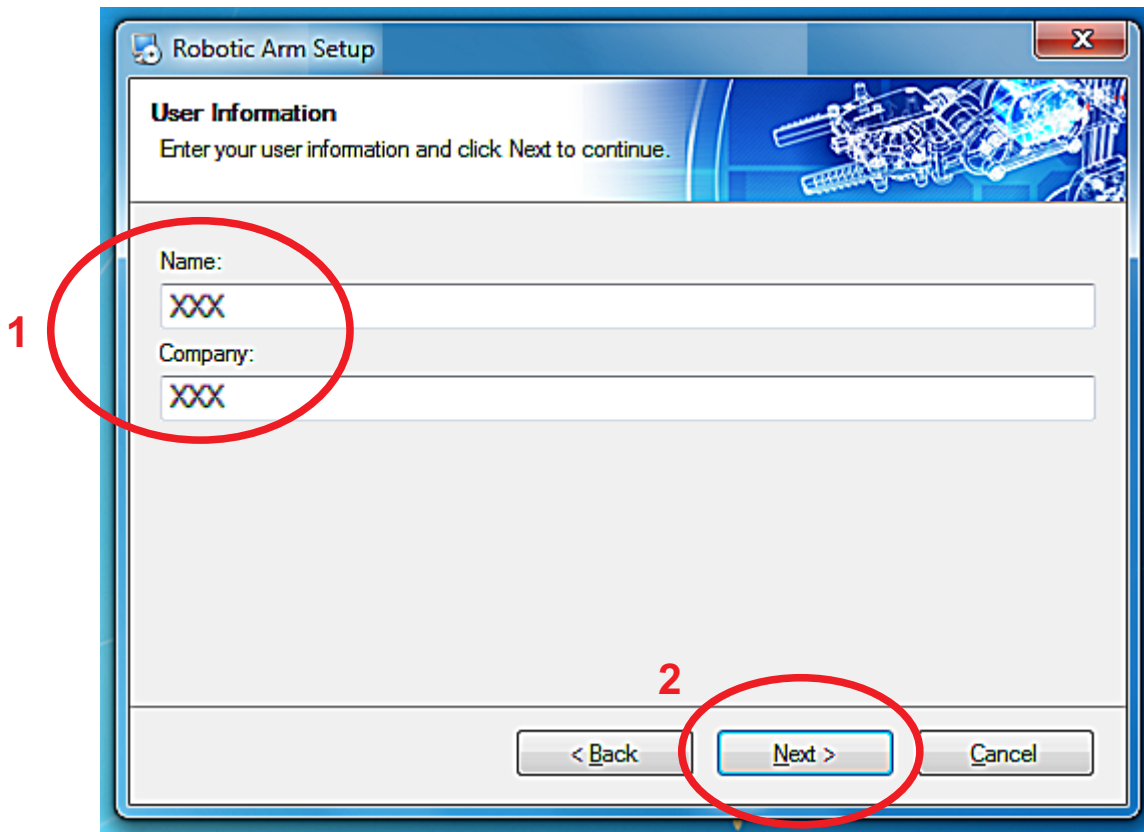Step9 Click " Install this driver software anyway " to continue.

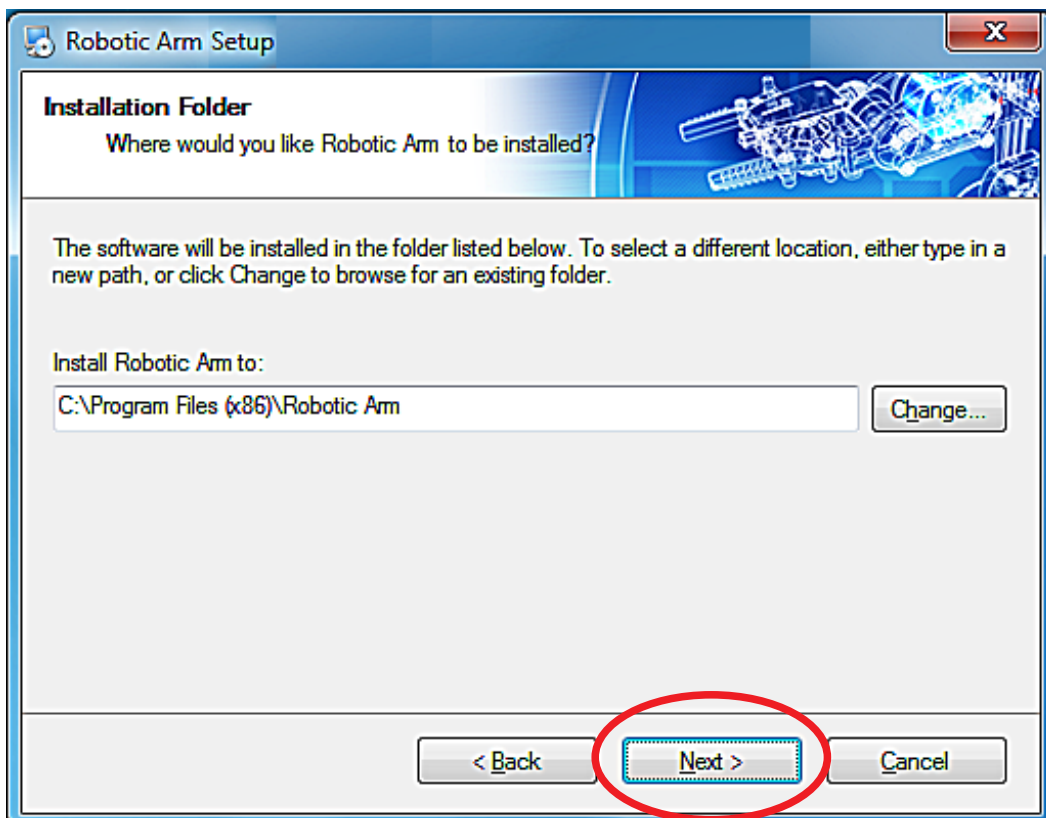Step10 Wait......

29

Step11 Click " Finish " to continue.

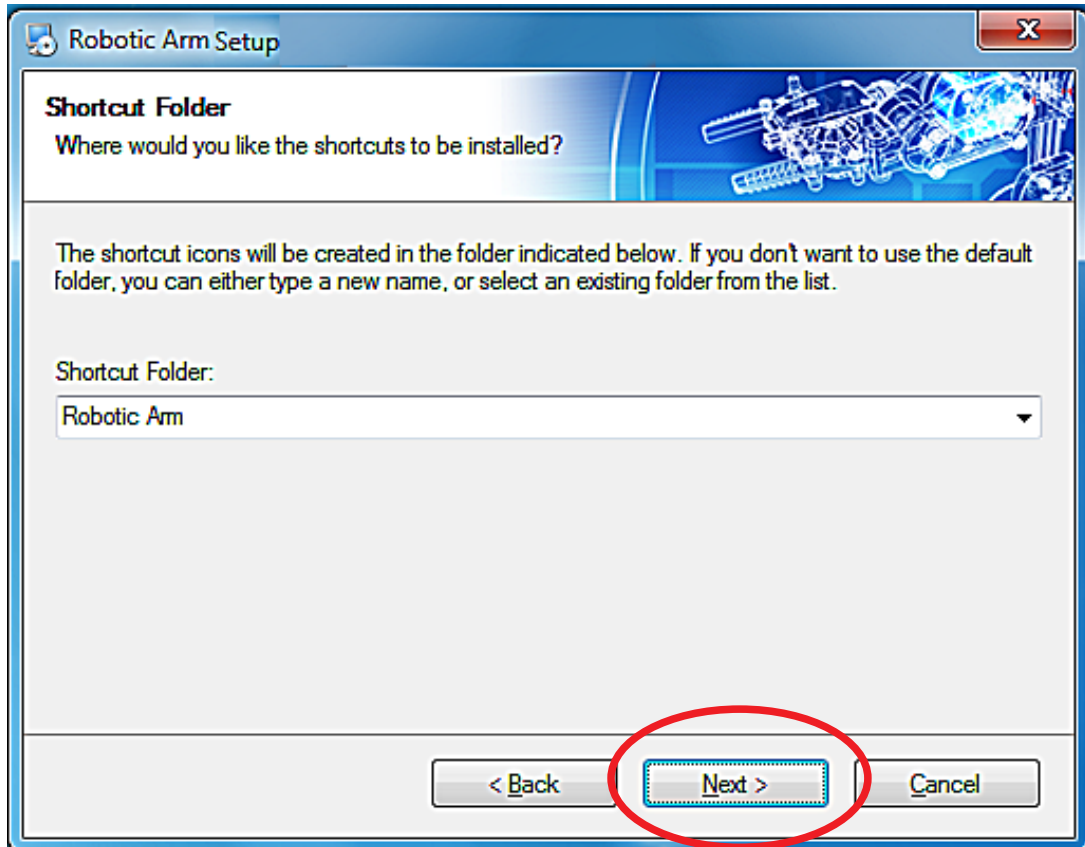

Step12 Click " Next " to continue.

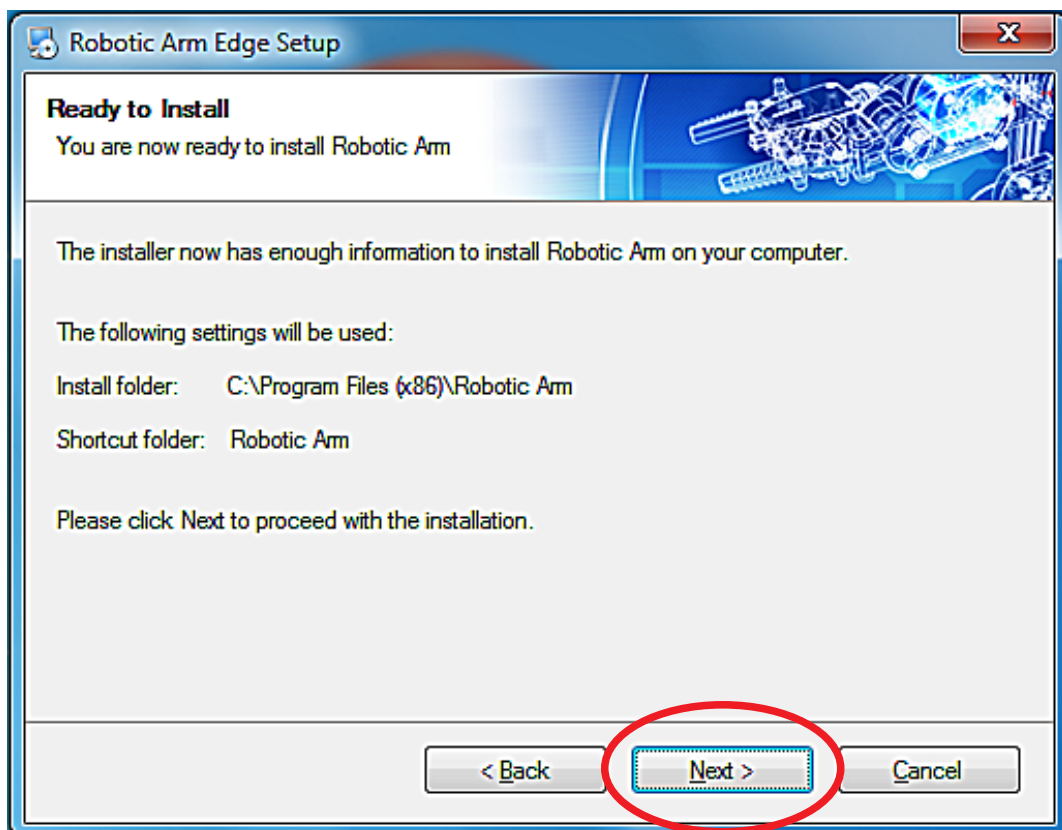Step13   Fill in your name or company and click "Next" to continue.

Robotic Arm Setup

User Information
Enter your user information and click Next to continue.

1

Name:
XXX

Company:
XXX

2

< Back   Next >   Cancel

Step14 Click " Next " to continue.

Robotic Arm Setup

Installation Folder
Where would you like Robotic Arm to be installed?

The software will be installed in the folder listed below. To select a different location, either type in a new path, or click Change to browse for an existing folder.

Install Robotic Arm to:

C:\Program Files (x86)\Robotic Arm   Change...

< Back   Next >   Cancel

Step15 Click " Next " to continue.

Robotic Arm Setup

Shortcut Folder
Where would you like the shortcuts to be installed?

The shortcut icons will be created in the folder indicated below. If you don't want to use the default folder, you can either type a new name, or select an existing folder from the list.

Shortcut Folder:

Robotic Arm

< Back   Next >   Cancel

Step16 Click " Next " to continue.

Robotic Arm Edge Setup

Ready to Install
You are now ready to install Robotic Arm

The installer now has enough information to install Robotic Arm on your computer.

The following settings will be used:

Install folder: C:\Program Files (x86)\Robotic Arm

Shortcut folder: Robotic Arm

Please click Next to proceed with the installation.

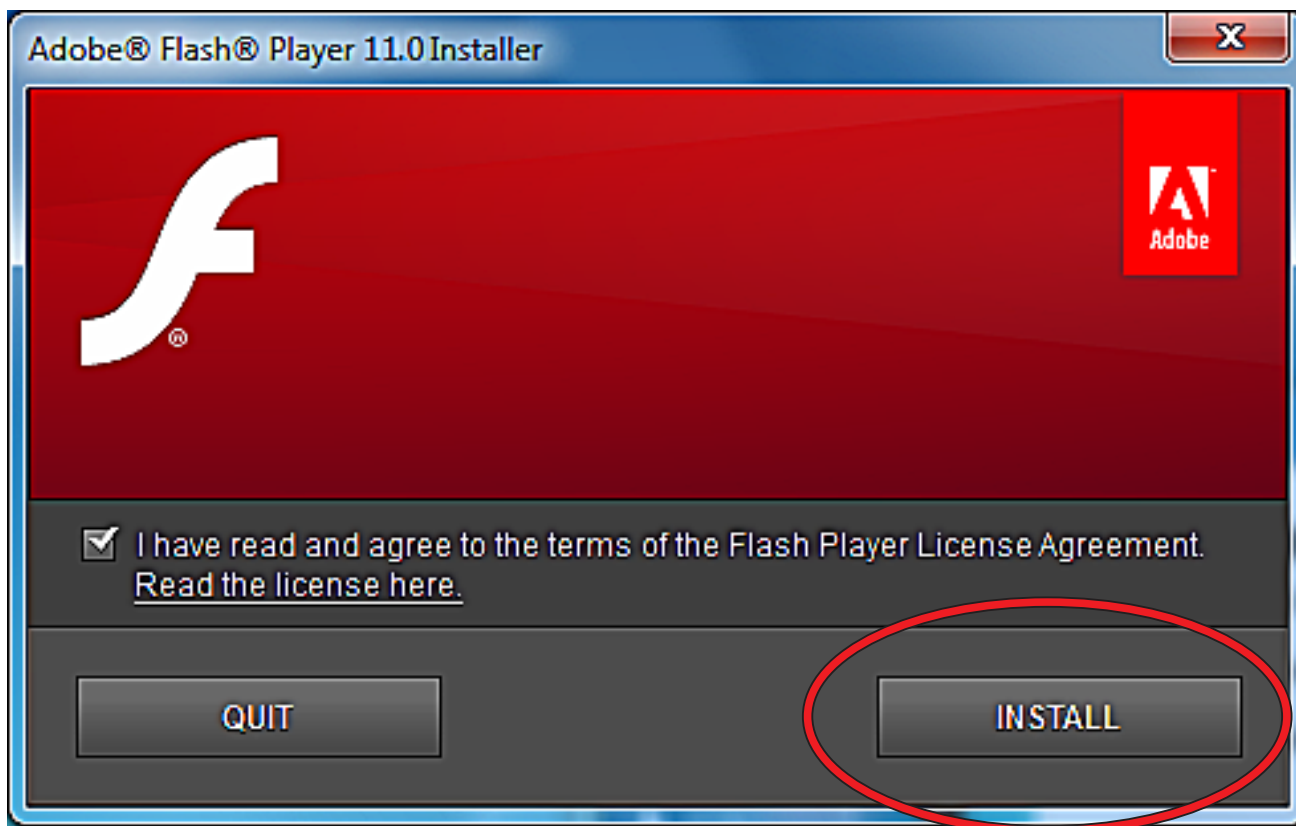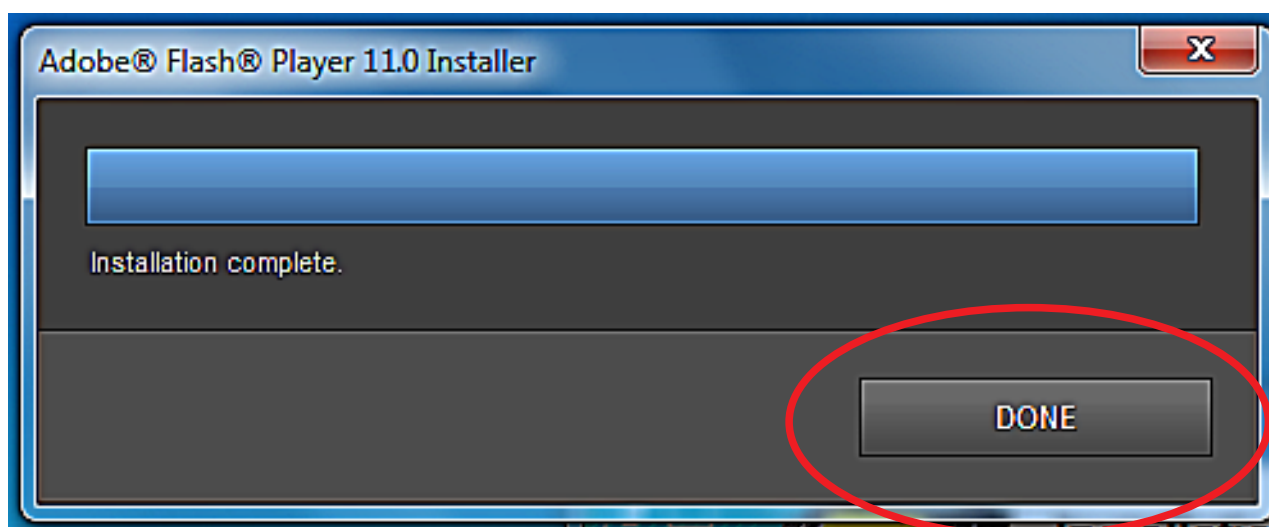< Back   Next >   Cancel

Step17 Wait......

Step18 Check the box "☑ I have read and agree to the terms of ......" to continue.

Step19 Click " INSTALL " to continue.

Step20 Click "Done" to continue.

Step21 Finish setup.

Robotic Arm Setup

Installation Successful

The Robotic Arm installation is complete.

Thank you for choosing Robotic Arm!

Please click Finish to exit this installer.

Finish
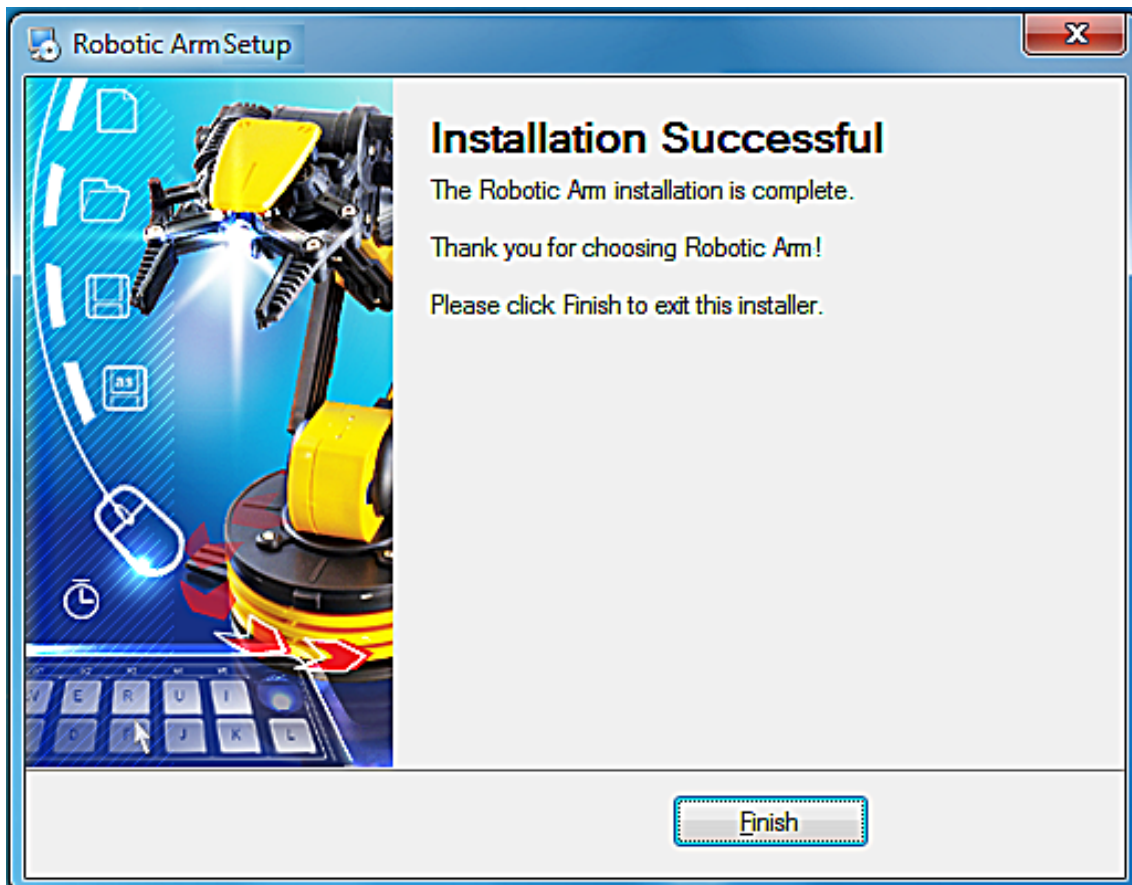
4.SET UP （For Windows 8 & 8.1, work only with 32-bit version ）

4-1.Hardware and system requirements

OS : Windows 8 & 8.1(work only with 32-bit version)

CPU : Pentium3, 1.0GHz or higher

Memory : 256MB or higher

Hardware Disk Space : 100MB or more

Display : Super VGA (800x600) or higher

Color monitor with high color 16-bit or higher

4-2.Install USB Driver and MAIN PROGRAM

A.Put the disk into your CD-ROM
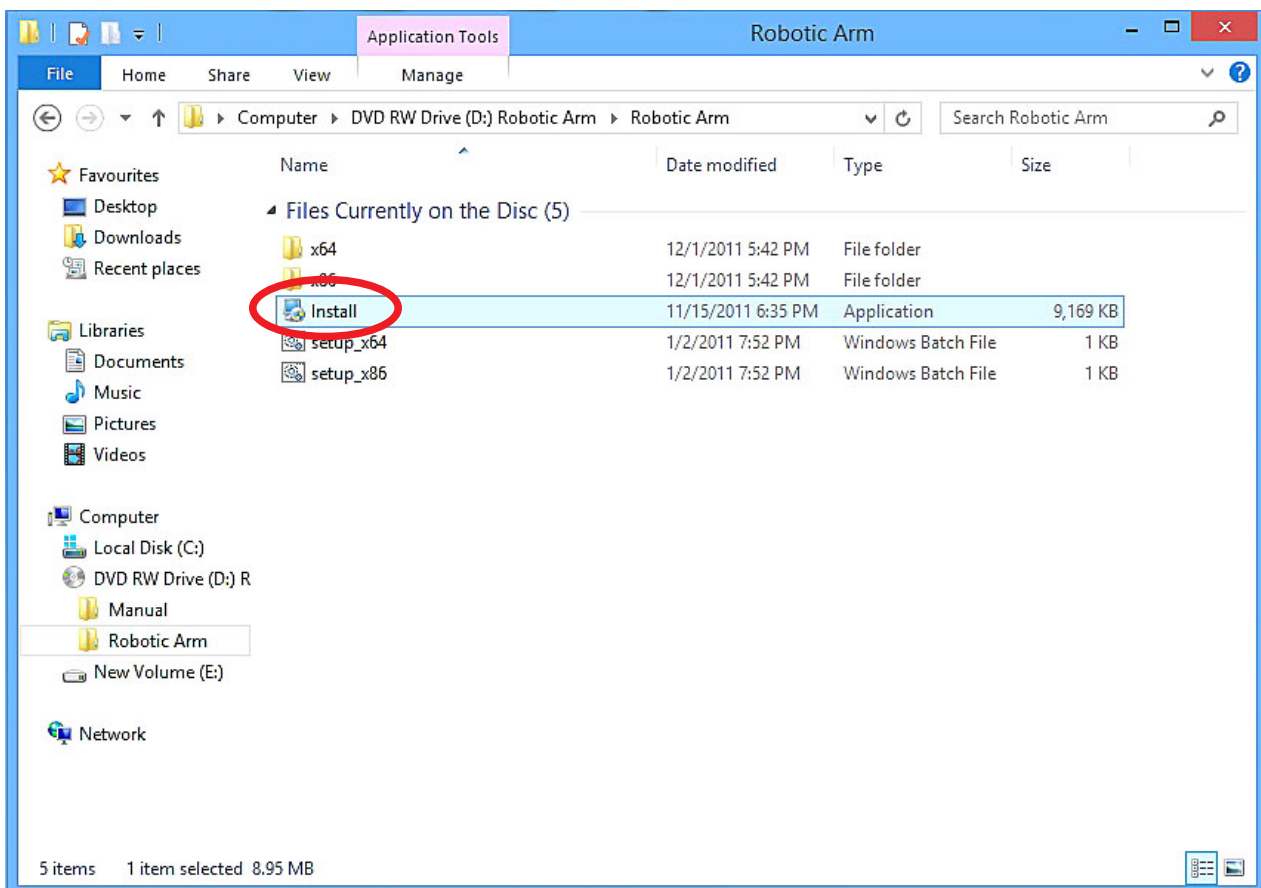
B.Connect Robotic Arm and PC with the USB cable.

C.Turn ON the Robotic Arm.

Trun ON

D. Install USB Driver and MAIN PROGRAM.

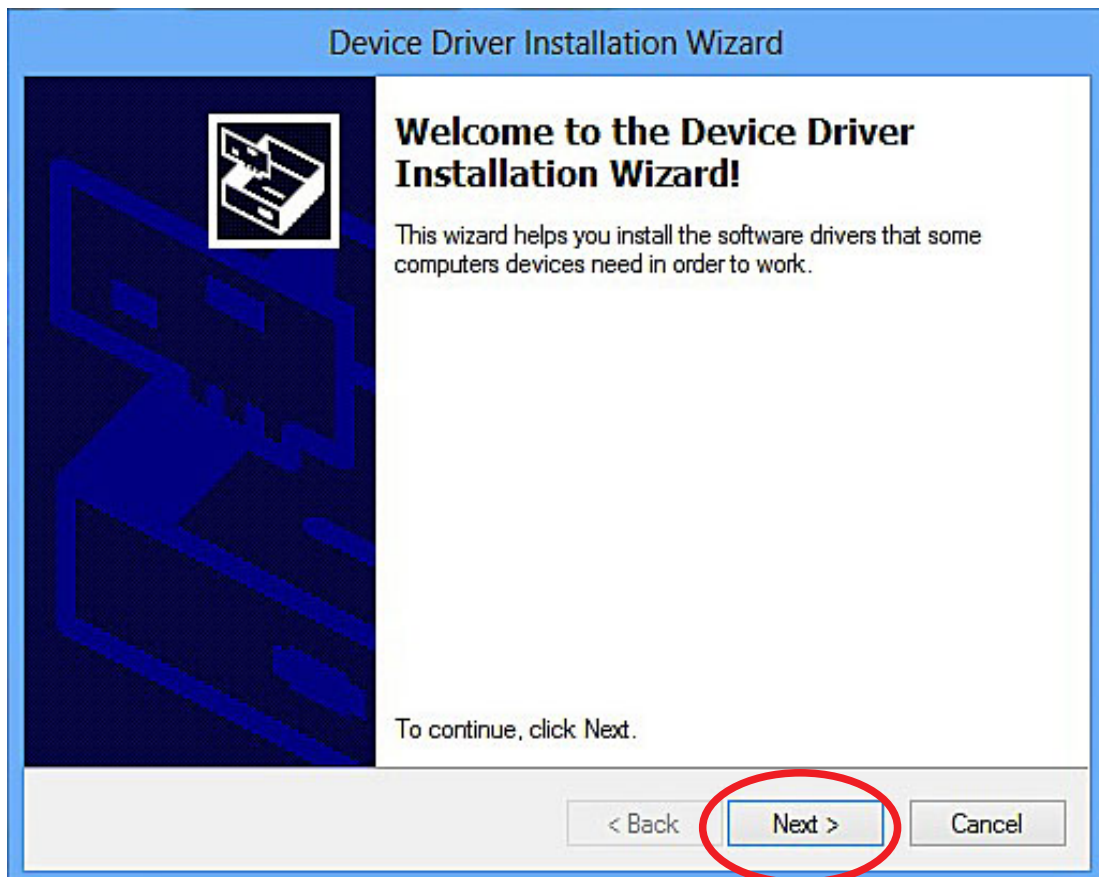Step1 Choose " Robotic Arm " .

Step2 Click " Install " icon.

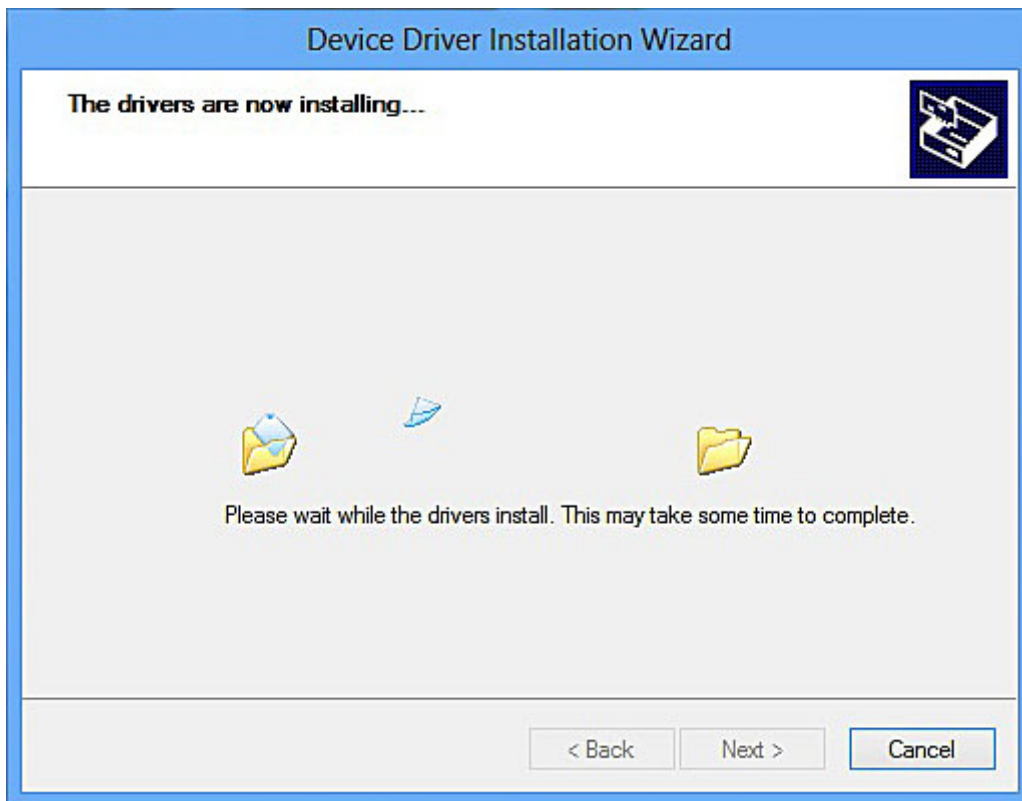Step3 Click " YES " to continue.
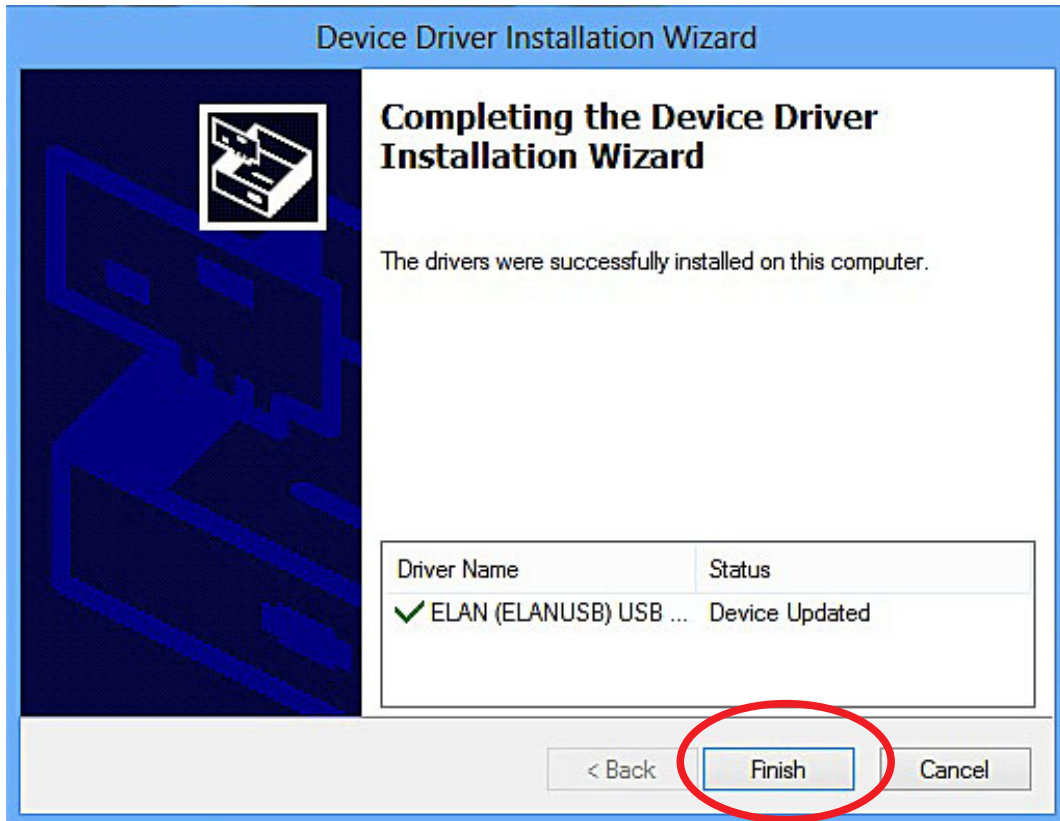

Step4 Click " Next " to continue.

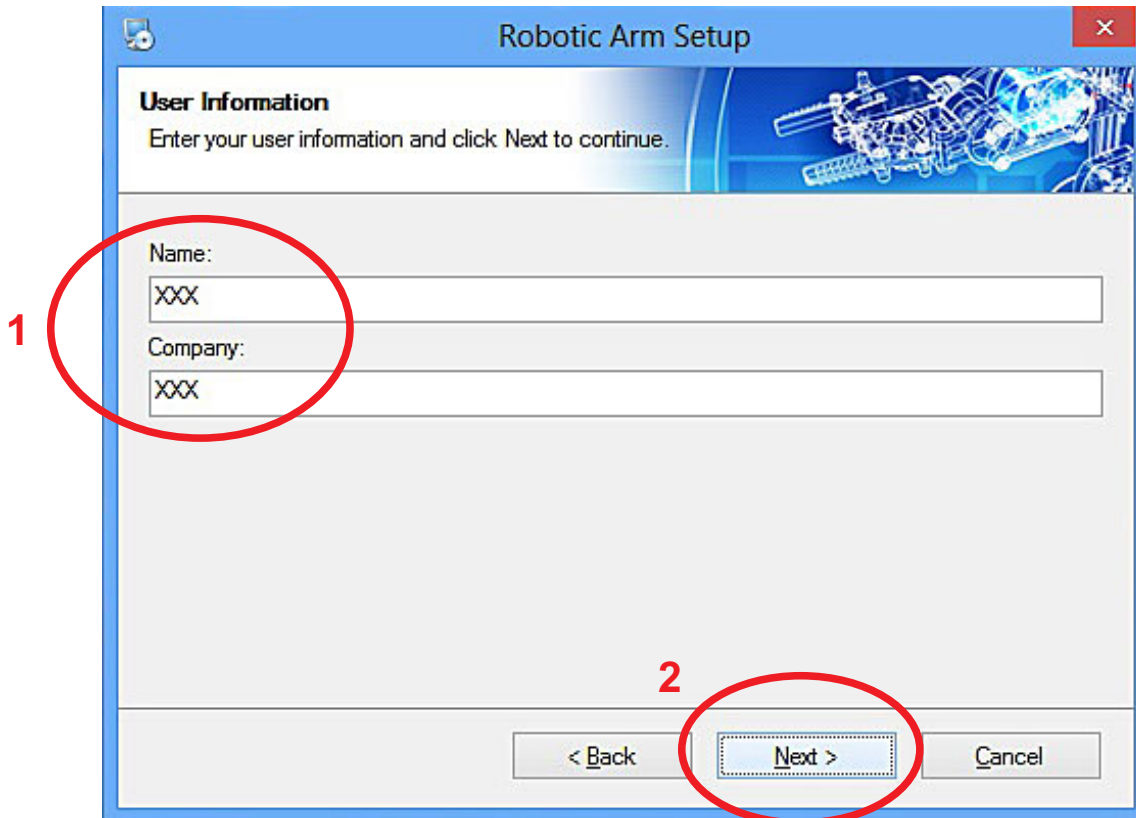Step5 Click " Install this driver software anyway " to continue.

Step6 Wait......
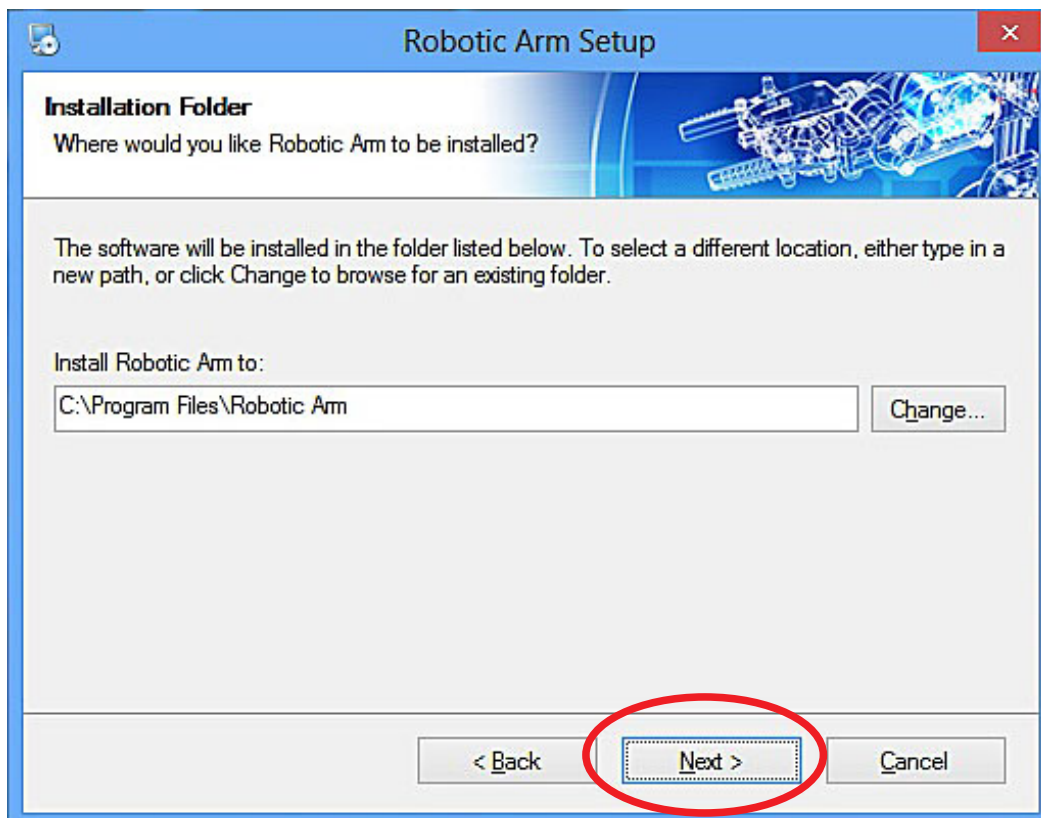
Step7 Click " Finish " to continue.
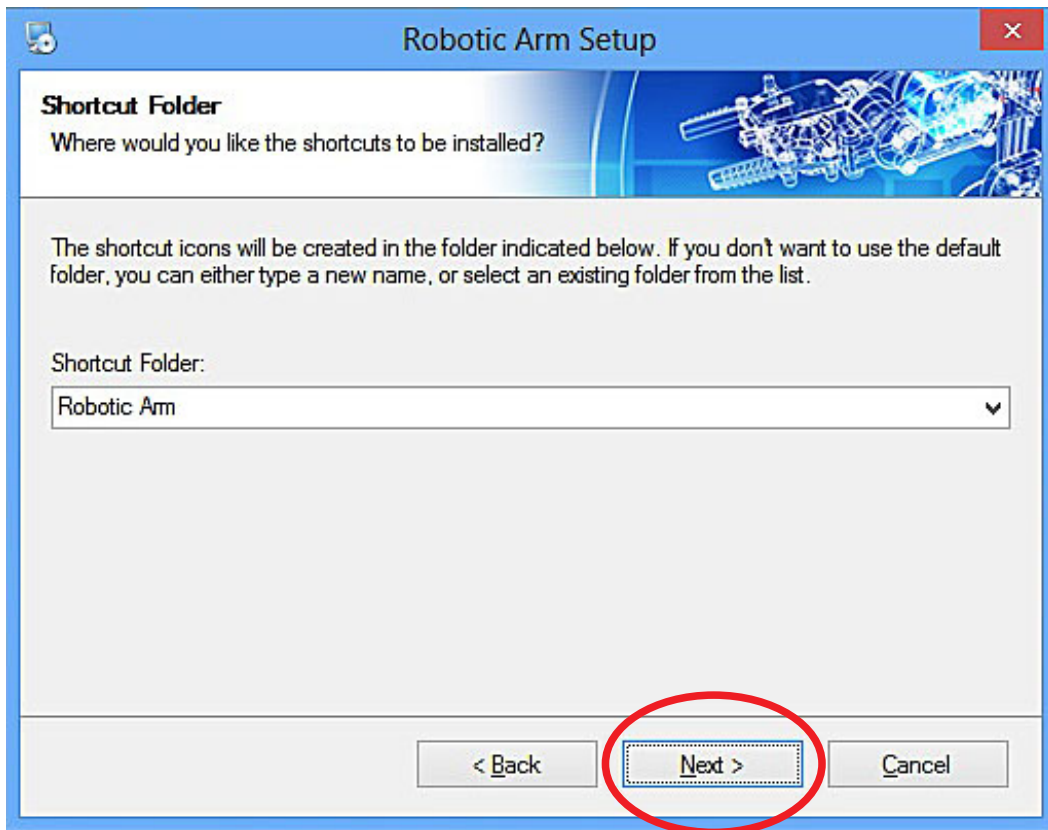

Step8 Click " Next " to continue.

Step9 Fill in your name or company and click "Next" to continue.
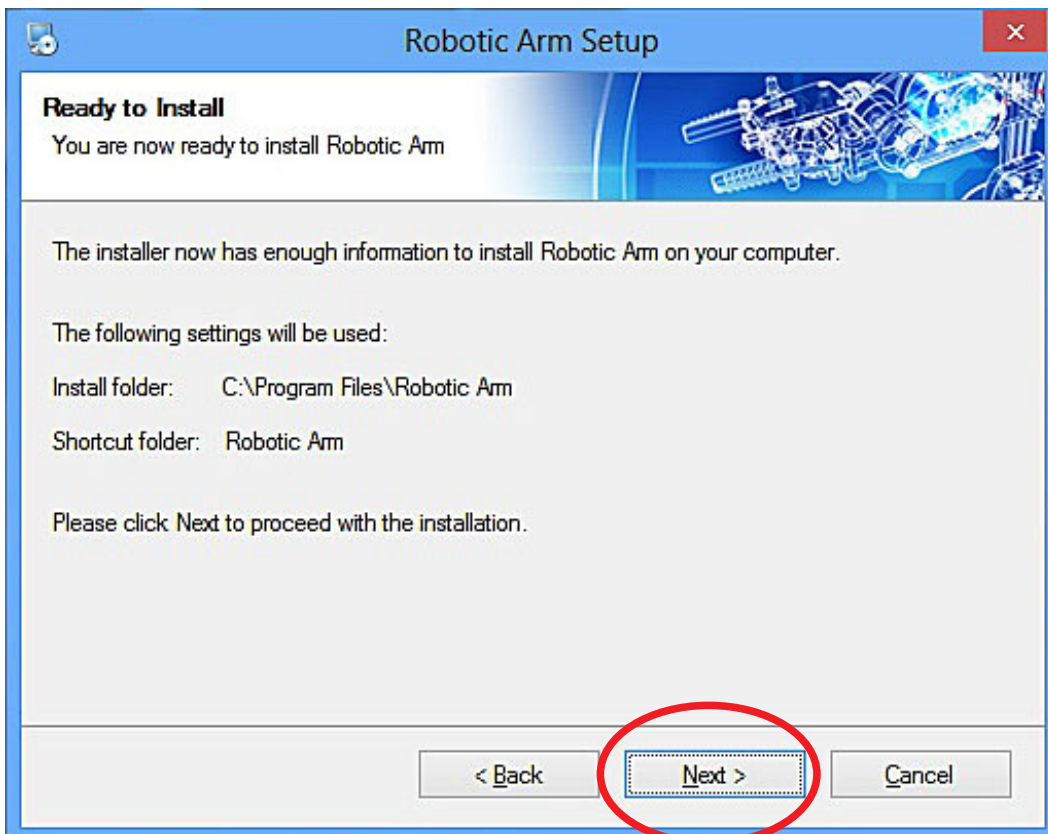

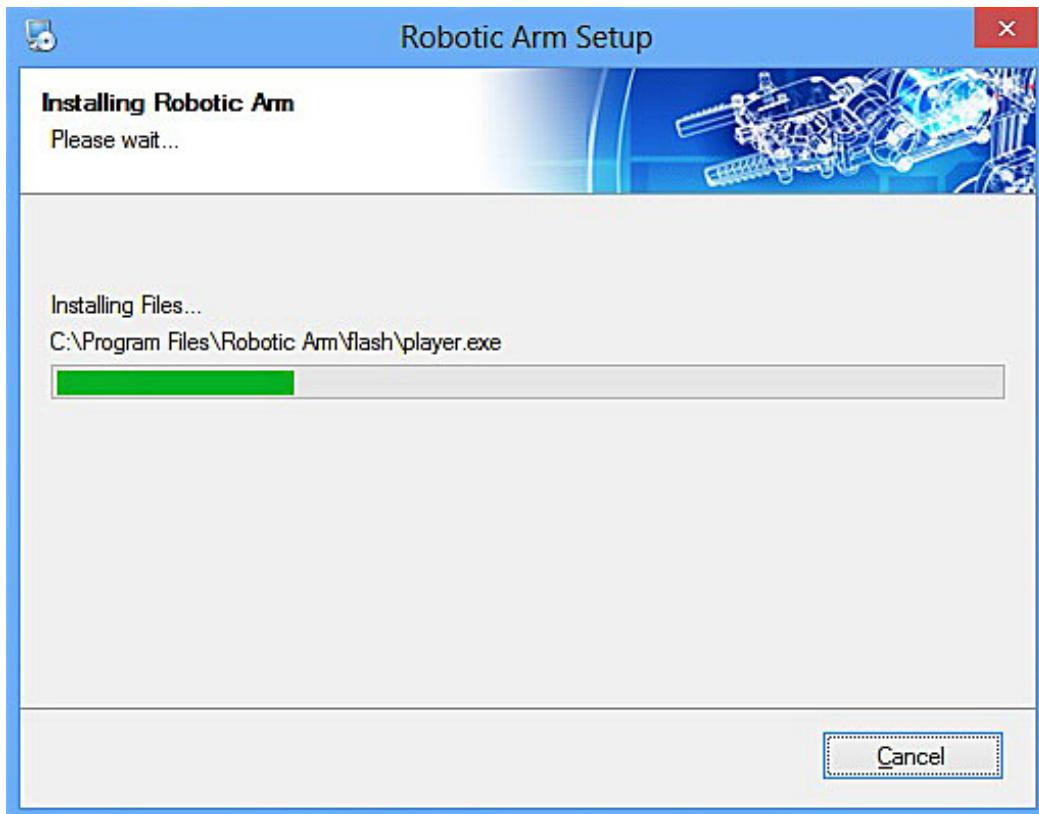Step10 Click " Next " to continue.

Step11 Click " Next " to continue.
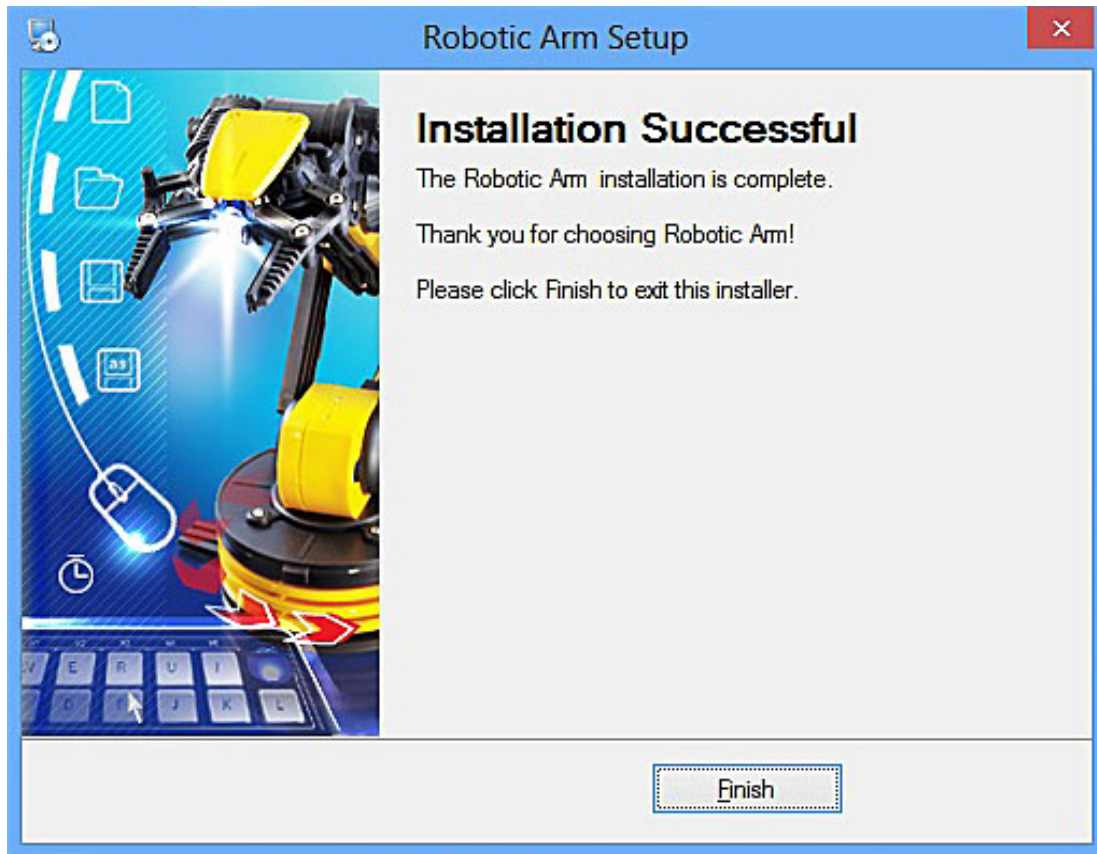

Step12 Click " Next " to continue.

Step13 Wait......

Step14 Click "QUIT" to continue.
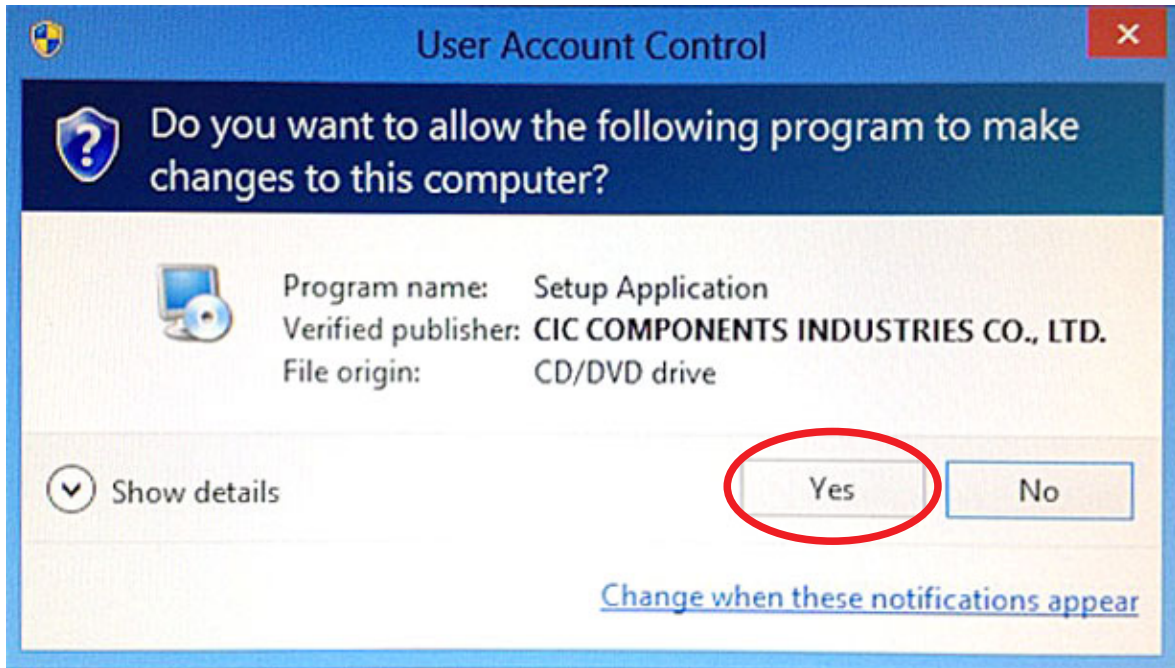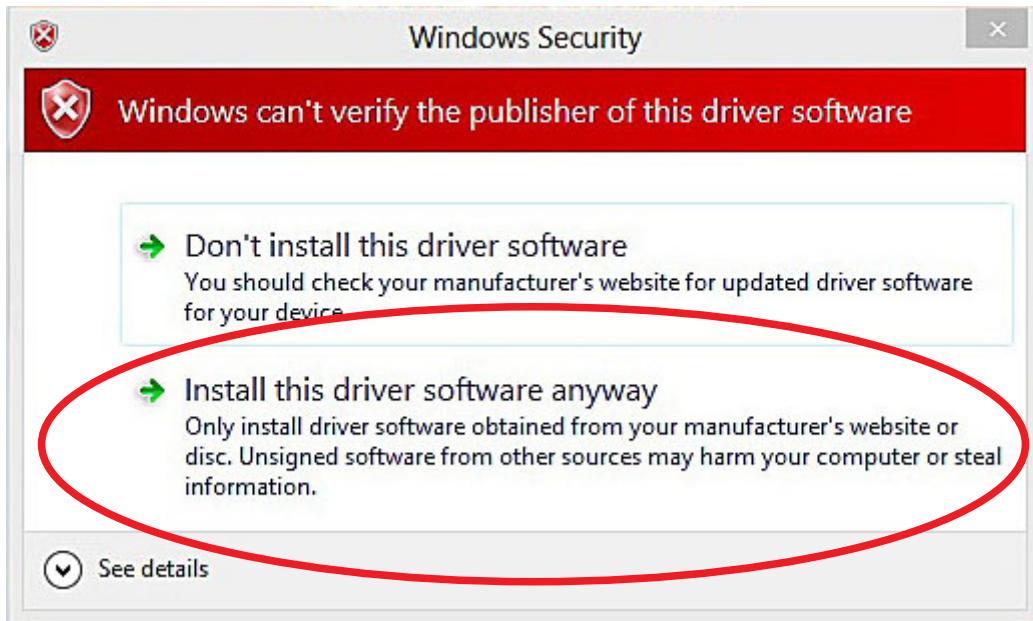
Step15 Finish setup.

5.SET UP (For Windows 10, 32-bit & 64-bit)

5-1.Hardware and system requirements

OS : Windows 10(32-bit & 64-bit)

CPU : Pentium3, 1.0GHz or higher

Memory : 256MB or higher

Hardware Disk Space : 100MB or more

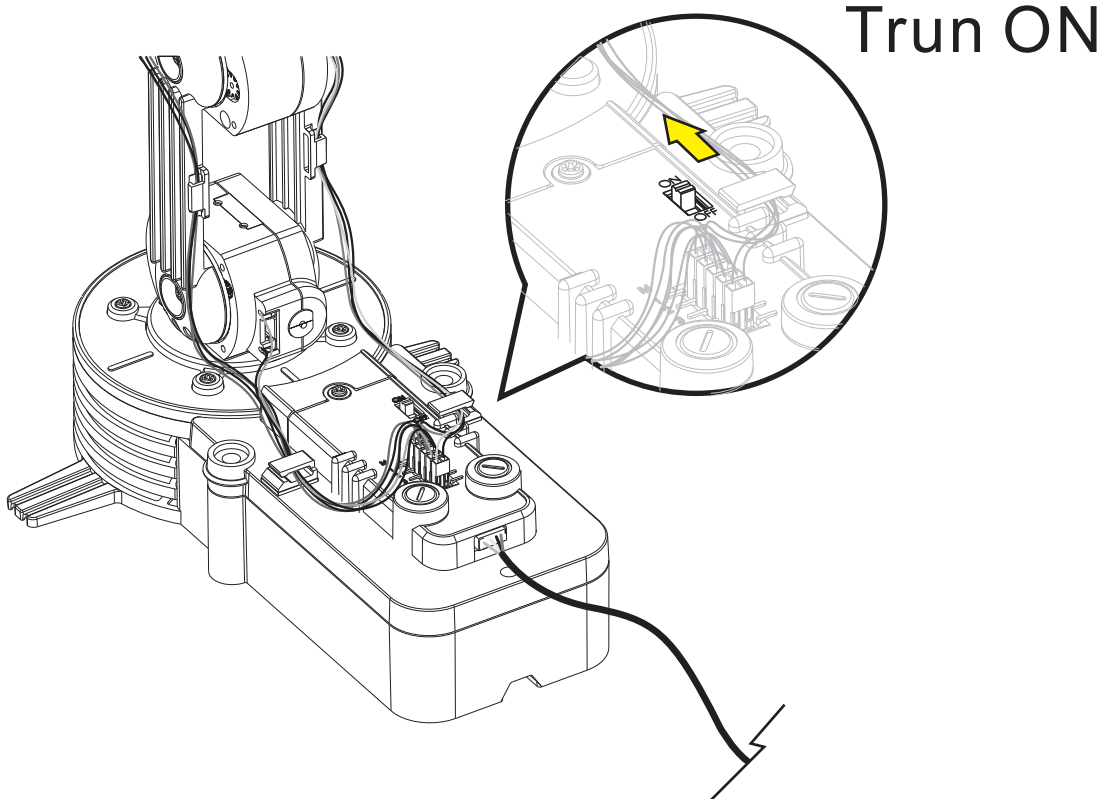Display : Super VGA (800x600) or higher

Color monitor with high color 16-bit or higher

5-2.Install USB Driver and MAIN PROGRAM
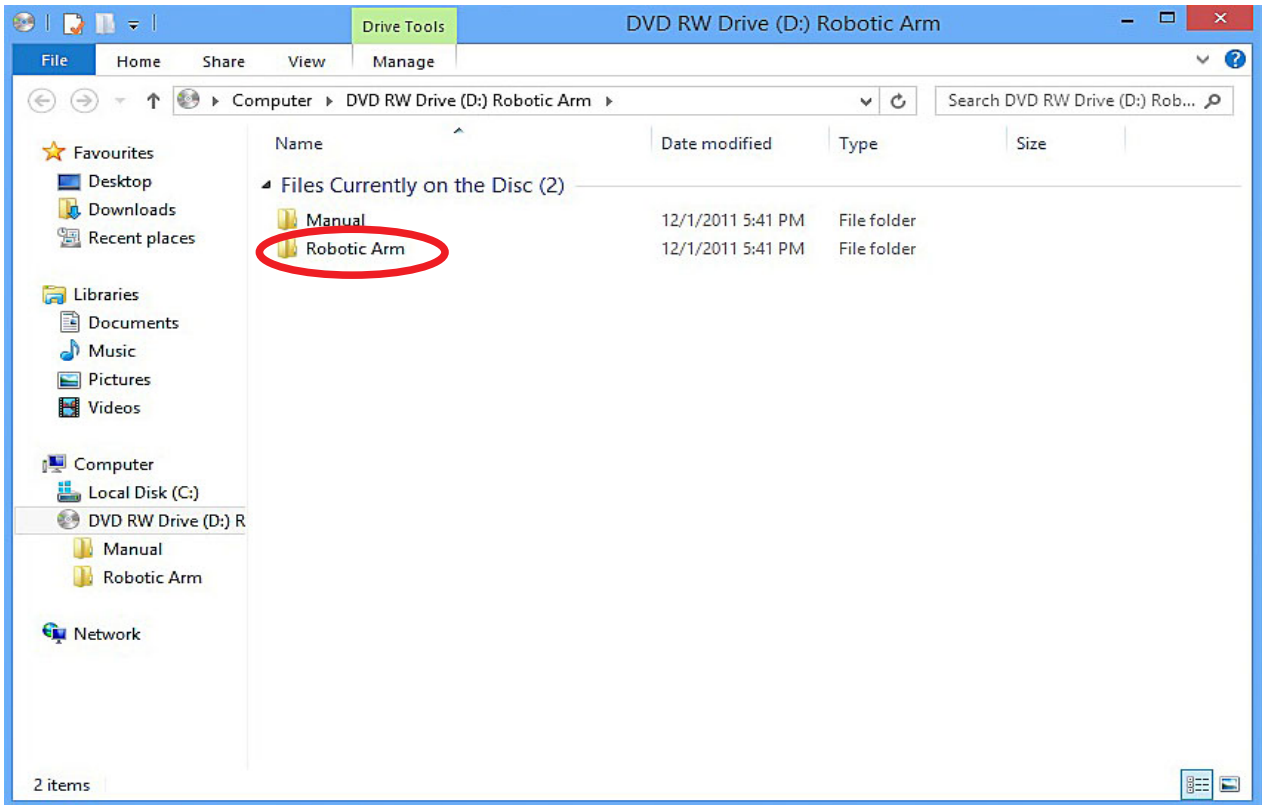
A.Put the disk into your CD-ROM

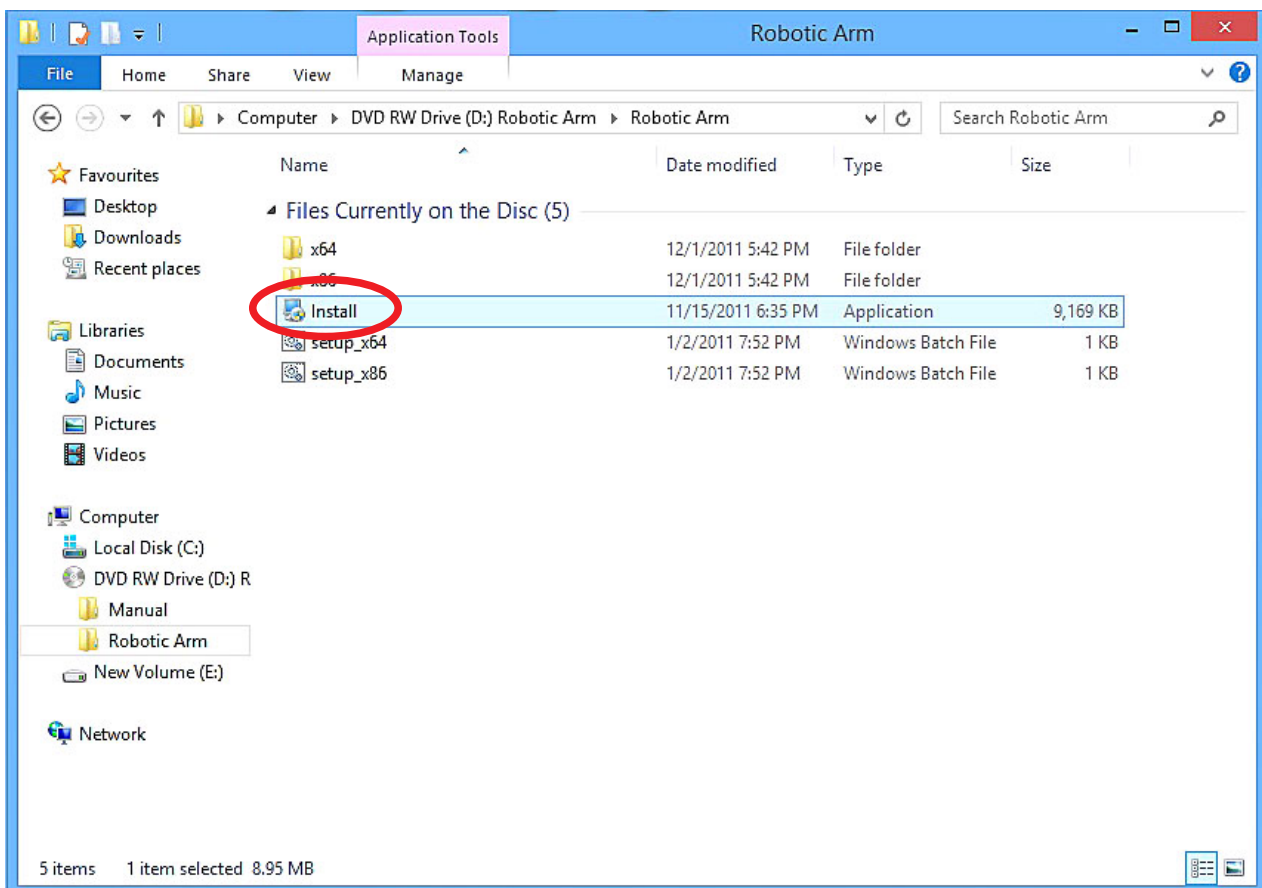B.Connect Robotic Arm and PC with the USB cable.

C.Turn ON the Robotic Arm.

Trun ON

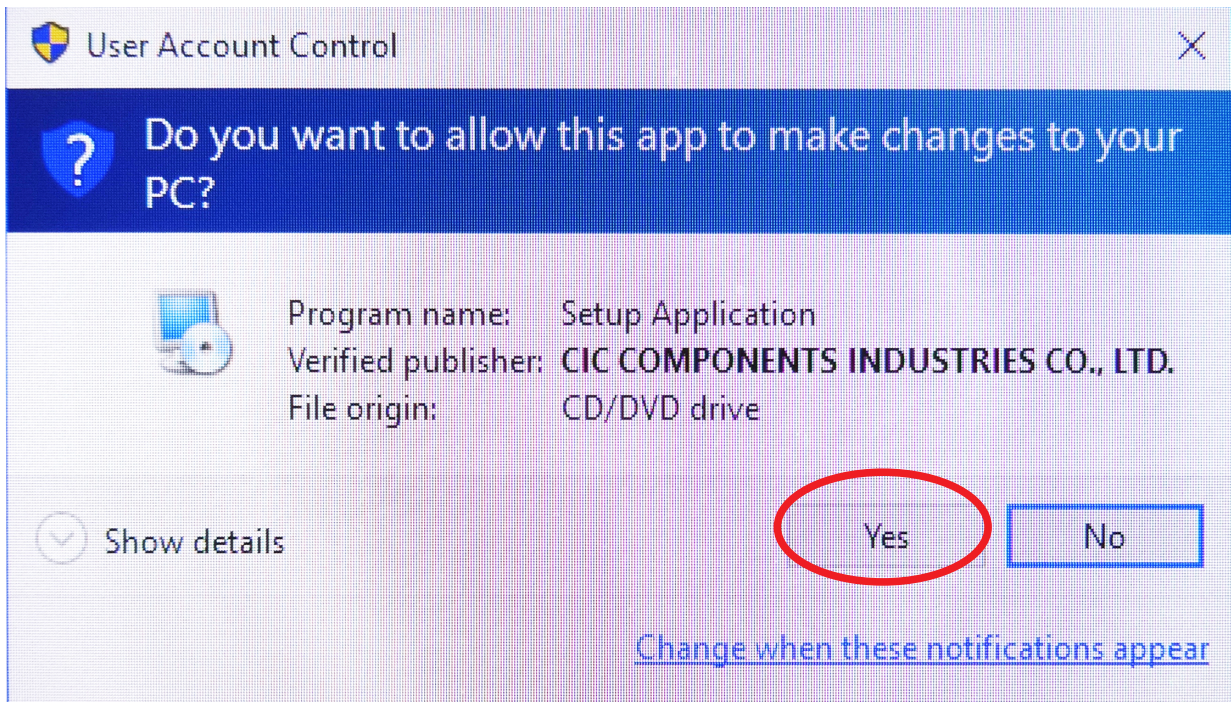## D. Install USB Driver and MAIN PROGRAM.

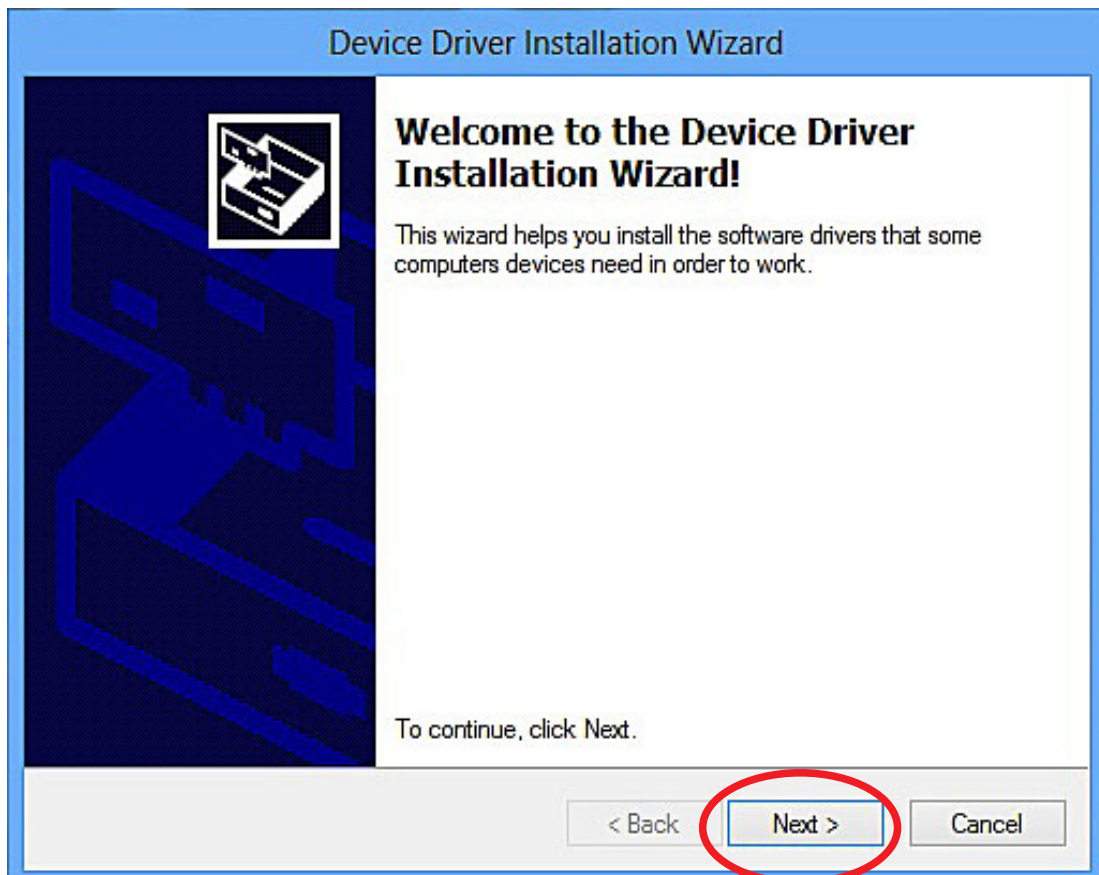Step1 Choose " Robotic Arm ".

Step2 Click " Install " icon.

Step3 Click " YES " to continue.

Step4 Click " Next " to continue.

Step5 Click " Install this driver software anyway " to continue.

Step6 Wait......

Step7 Click " Finish " to continue.

Step8 Click " Next " to continue.

Step9   Fill in your name or company and click "Next" to continue.

Step10 Click " Next " to continue.

Step11 Click " Next " to continue.

Step12 Click " Next " to continue.

Step13 Wait......

Step14 Click "QUIT" to continue.

Step15 Finish setup.

Robotic Arm Setup

Installation Successful

The Robotic Arm installation is complete.

Thank you for choosing Robotic Arm!

Please click Finish to exit this installer.
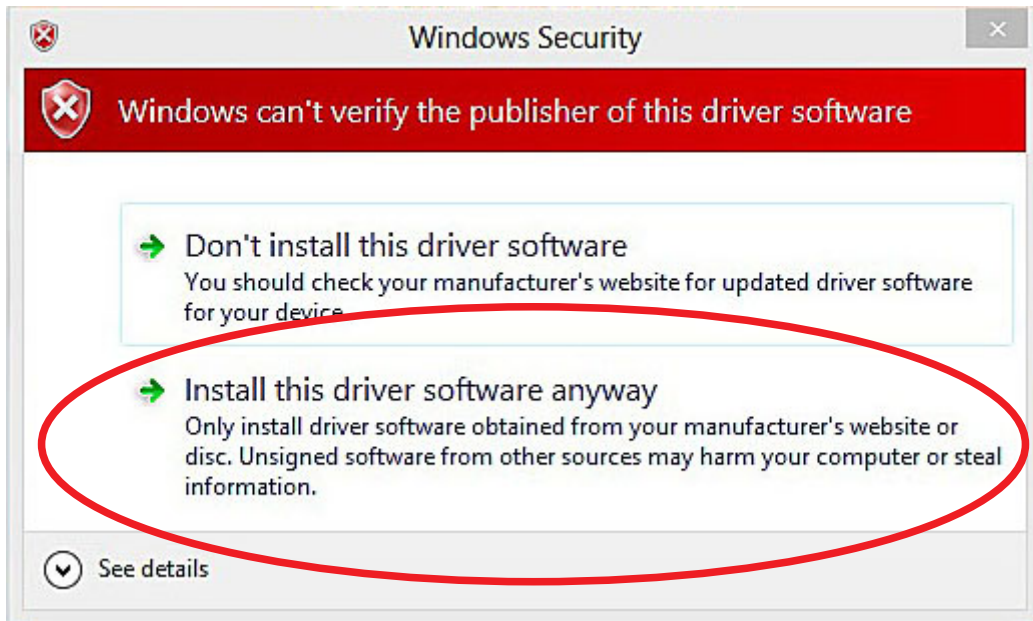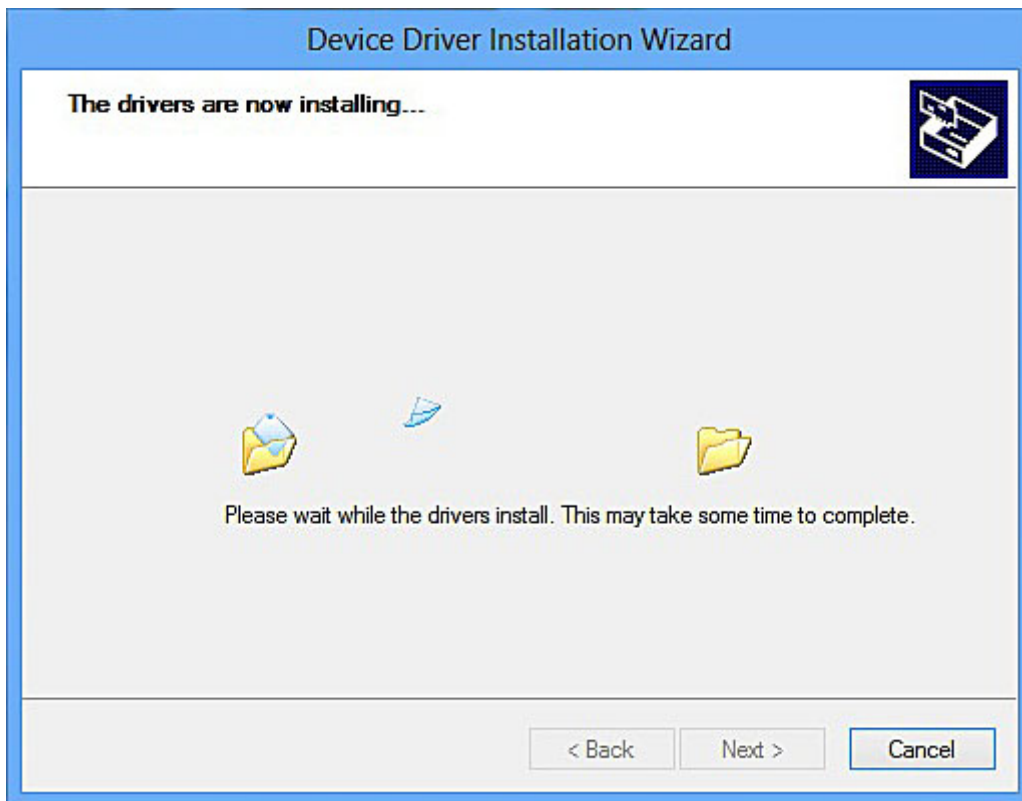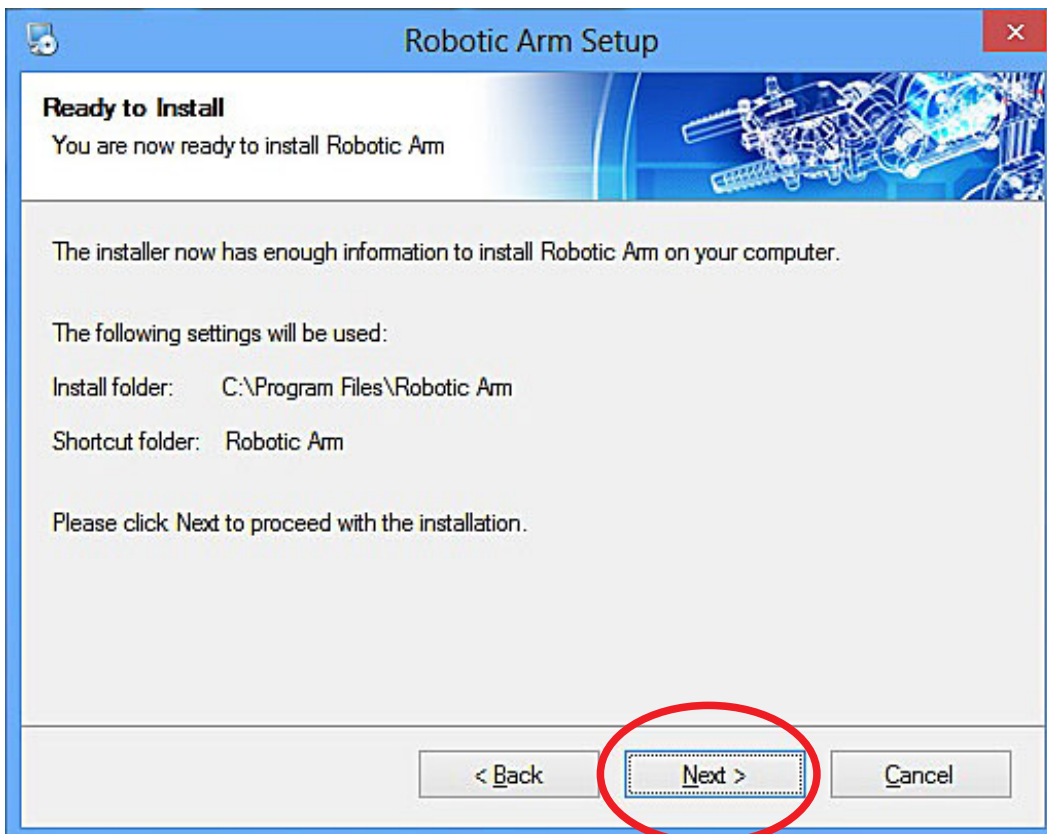
Finish

6.HOW TO PLAY

6-1.Start the program

Click "Robotic Arm"icon on your desktop to start the program.

Robotic Arm

6-2.Opening animation

Click "PLAY" to get into the program.
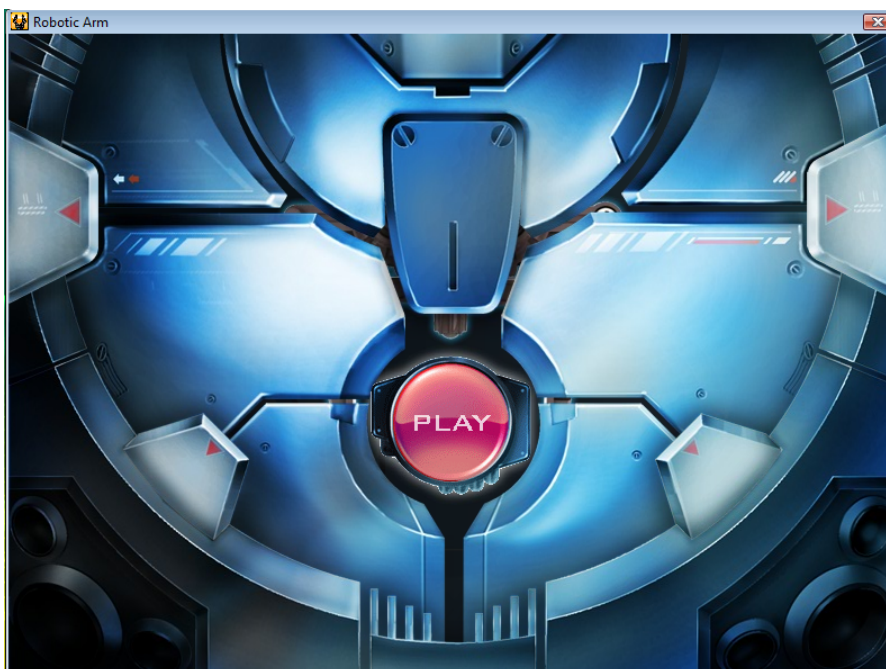
6-3.MENU

Choose a mode to play.

【MENU】

BASIC mode ——————— BASIC

PROGRAM mode ——————— PROGRAM

Quit ——— QUIT

6-4.BASIC MODE

Motion area

Label ── BASIC MODE

Back to menu

Mouse
MODE

Keyboard

USB Device Connect

Control button   Status
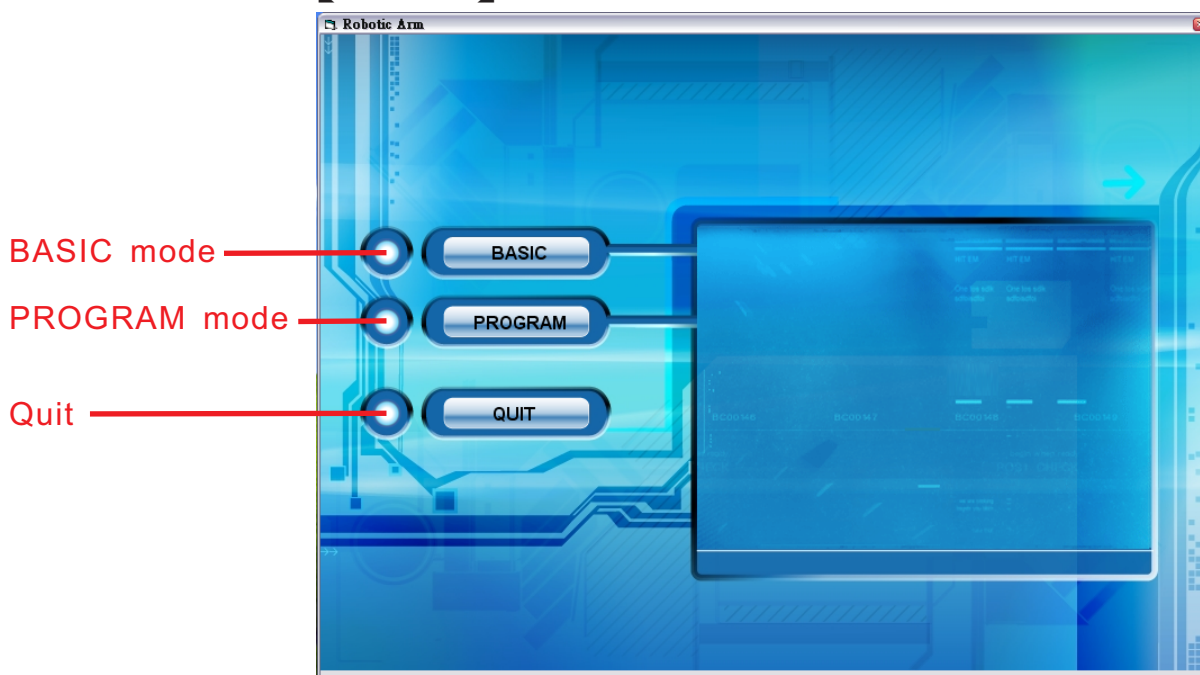
Control mode for
Keyboard or Mouse
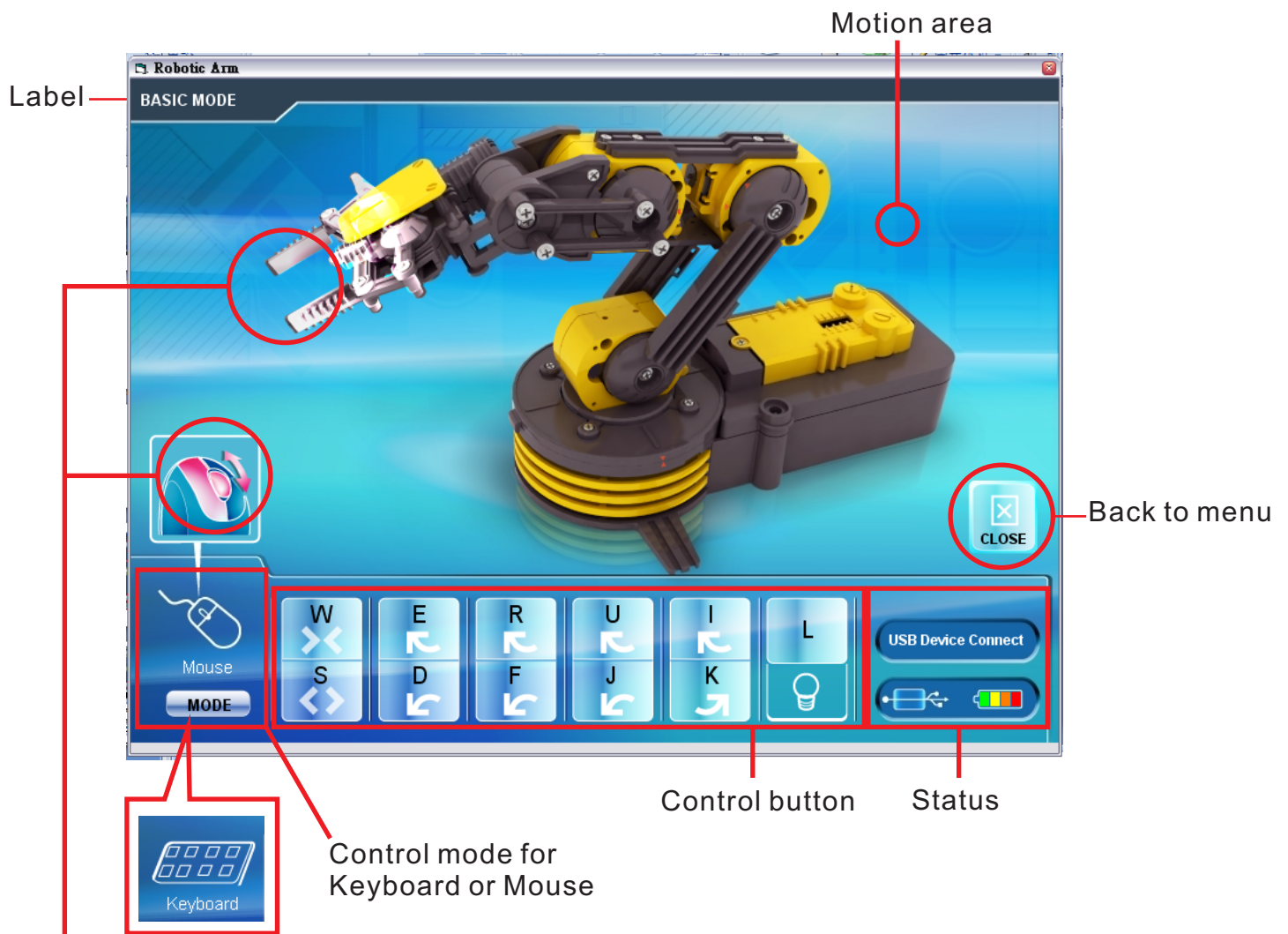
Mouseover effect： Scroll the mouse wheel to operate motor .

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6-5.PROGRAM MODE

Control button

Data display

Label

File area

Data box

Motion area

Program display area

Program tools

Control mode for Keyboard or Mouse

Write data area

Status
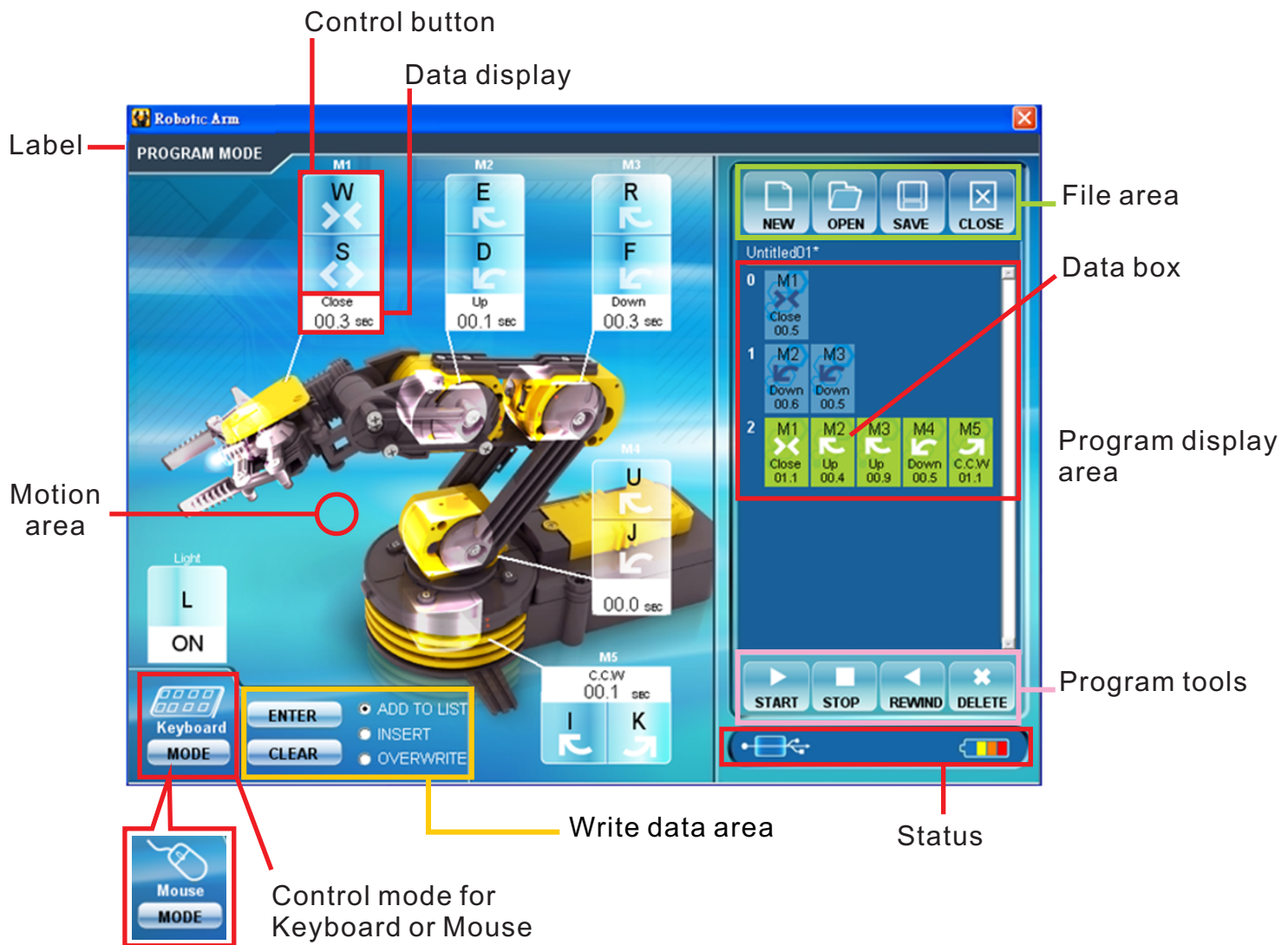
Write data area
ENTER : Fix the total operation time in the program display area.
CLEAR : The timer is reset to "0".

File area
NEW : Create a new file.
OPEN : Open a saved file.
SAVE : Save a created program.
CLOSE : The display goes back to Menu

Program tools
START : The program in the program display area is executed.
STOP : The program under execution is stopped.
REWIND : Reversed for the time specified in the program display area and Robotic Arm goes back to the original position.
DELETE : Selected command in the program display area is deleted.

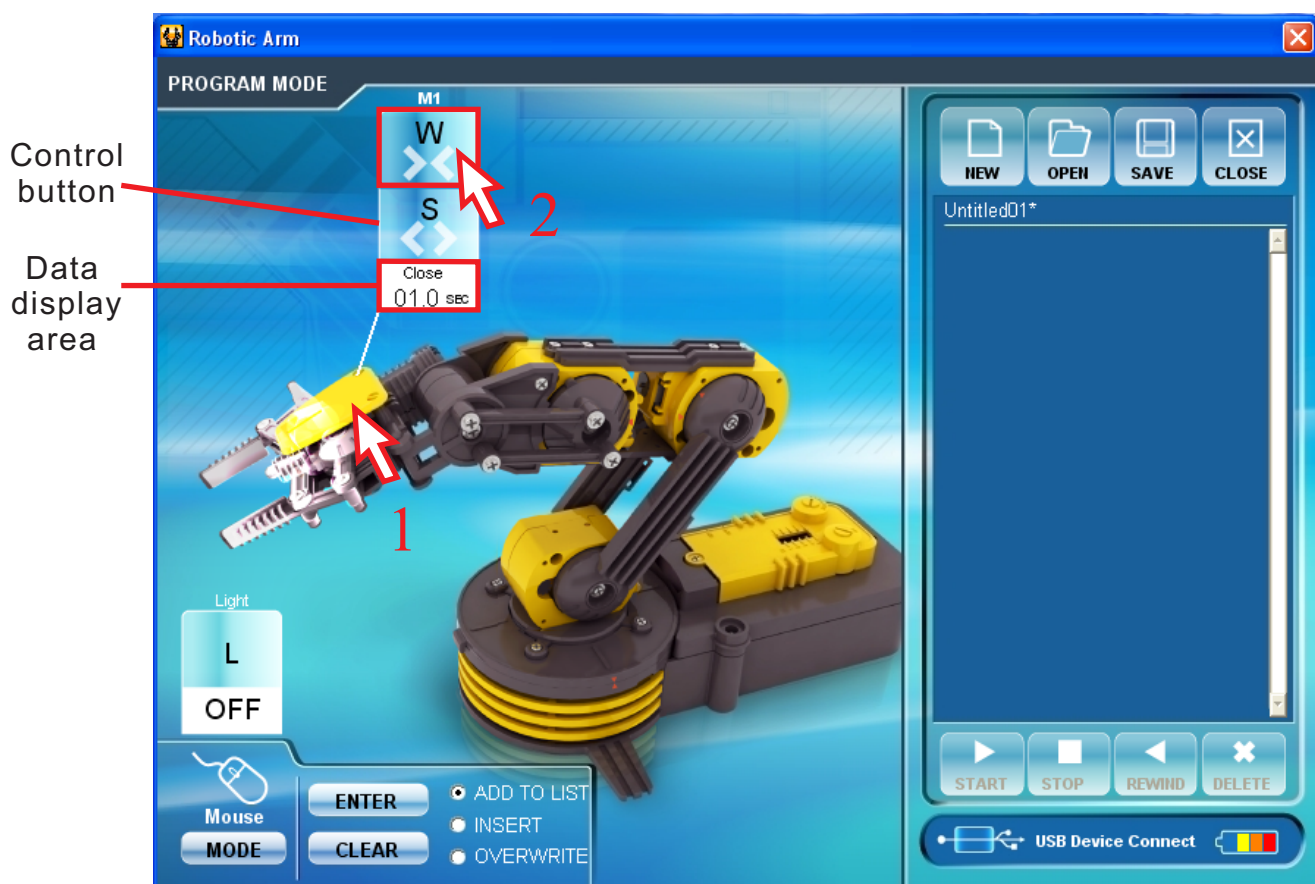## 6-6.PROGRAM MODE OPERATION GUIDE

Step1 Choose "PROGRAM" .

Step2 Begin to program your Robotic Arm. Choose any of the motor gear in Motion area. For example, choose "M1"gear and use "Control button" to change the time you want the Robotic Arm to be moved. The time is shown at the "Data display"area.

Control button

Data display area

Step3 Press "ENTER" to write the data in "Data box".

Step4 The data in "Data box".

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Step5 Keep to choose another motor gear. Choose "M1" and "M3" gear and
       change the data.

Step6 Press "ENTER" . The data is written into the "Data box" at the same time.

**Step7 IF you want to insert a movement before the data in the Data Box.
Click "INSERT" at "Write data area".**

Write data area

Step8 Change the time with the motors you want to change.

Step9 Press "ENTER" . The data is inserted into the "Data box" at the same time.
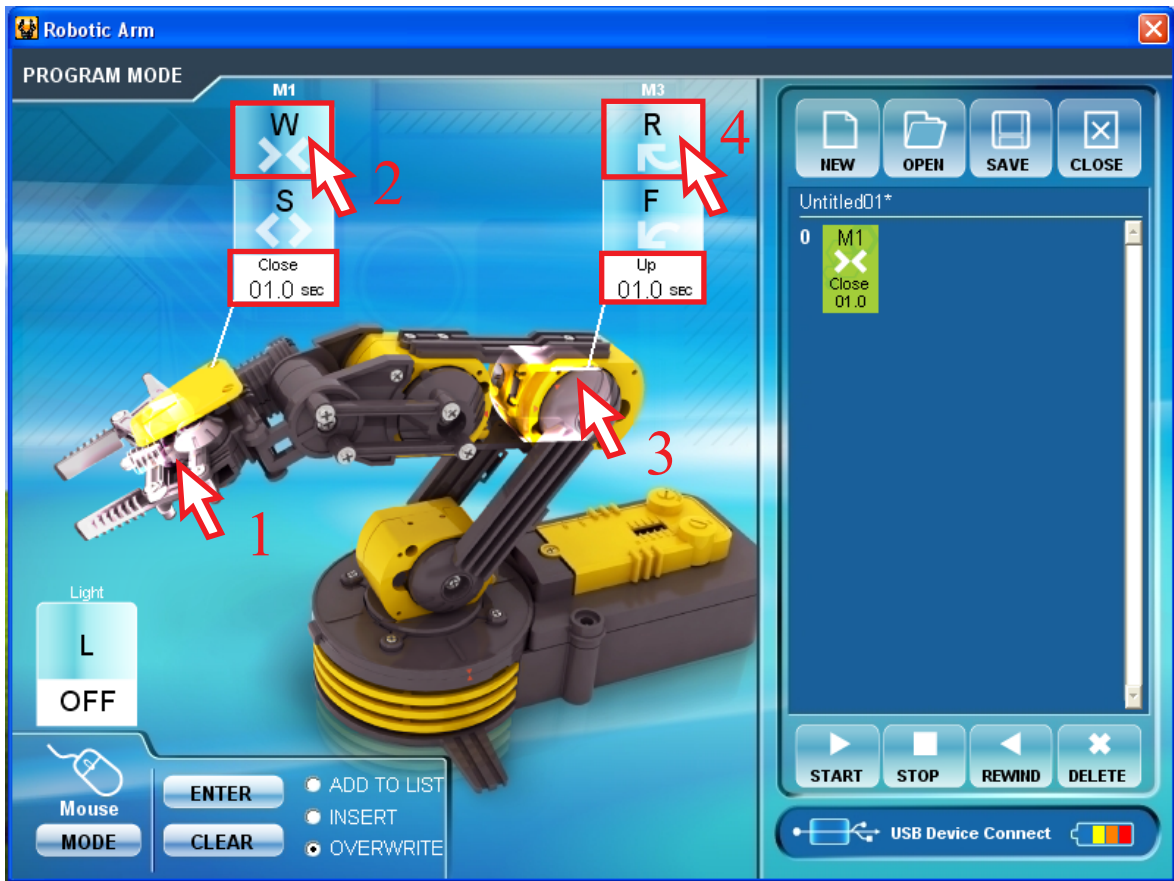

Step10 To overwrite the data. Click "OVERWRITE" at "Write data area".

Write data area

Step11 Change the time with the motors you want to change.

Step12 Press "ENTER" . The data is changed at the same time. And the choice of "OVERWRITE" in"Write data area" is changed back to "ADD TO LIST" automatically.

Step13 To see the movement you have been set . Press "START" in
        "Program tools" area.
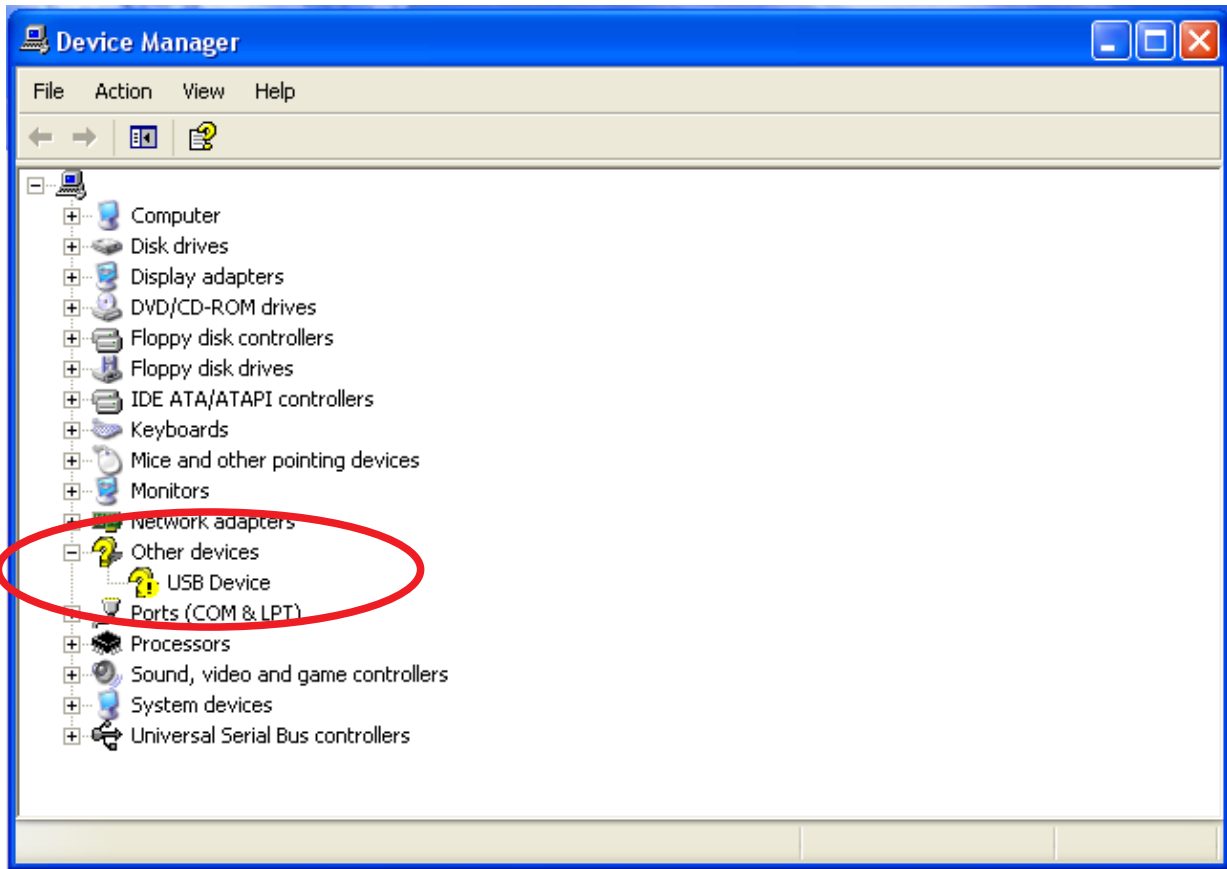

Program tools

Step14 The movement data will show on screen at the same time while
        the Robotic Arm is moving.

7.TROUBLESHOOTING

7-1 If there is no " Other devices" shown on your computer.
Please reconnect your Robotic Arm with computer or change
other USB port of your computer or re-install the softwar.

7-2 If the gearbox dose not work smoothly. Please Check motor
wire connection.