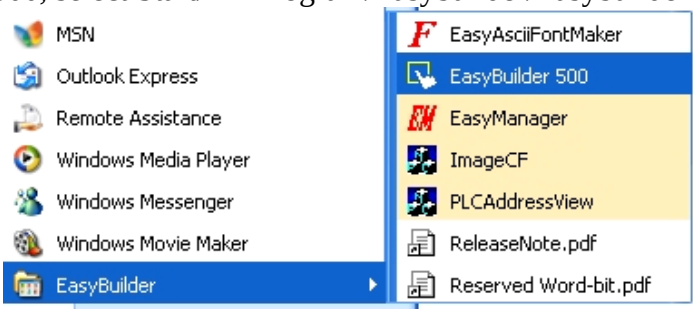
Chapter 2. Creating a Simplest Project

“Easy-to-use” is the strongest advantage of EB500 software. Through an example of project with a switch control object, we explain how to create a simple project from EB500. Other project making is basically the similar procedure to this example.

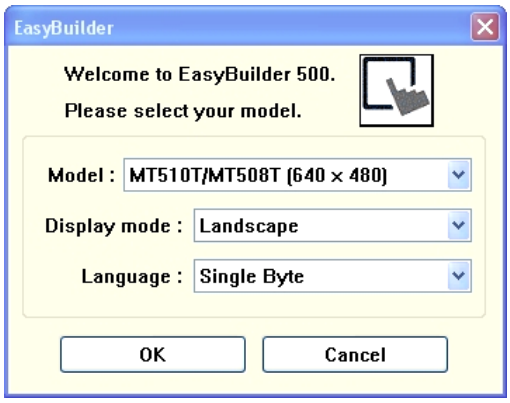
2.1 First Step

First of all, let us create a blank new project.

1) After installing the EB500, select Start/All Program/Easybuilder/Easybuilder 500.

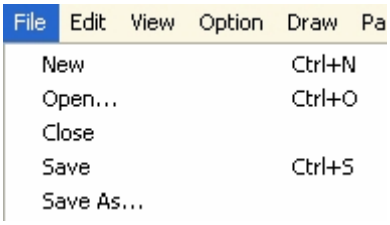


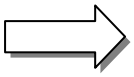
2) If it's the first time running EasyBuilder or a last blank project was opened on last time log-in, the following popup dialog appears.

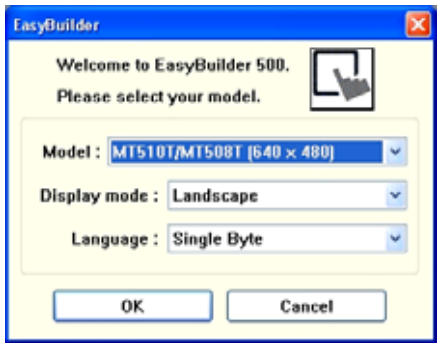


Select the model of the display and then click “ok”.

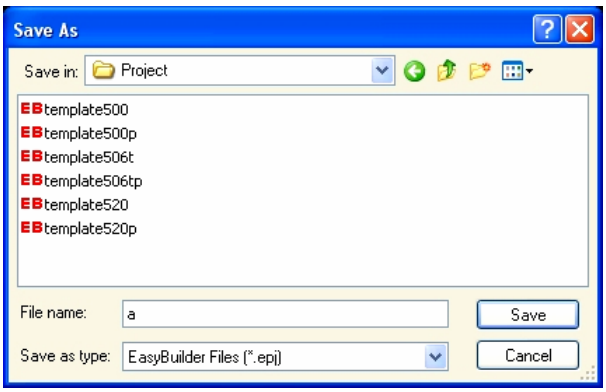
Otherwise ,the last open project is opened for editing. Select menu bar [File]/[New] to create a new project, the following popup dialog appears.
Select the appropriate model you are programming. Here we choose model [MT510T/508T 640*480] as an example, then click “ok”.





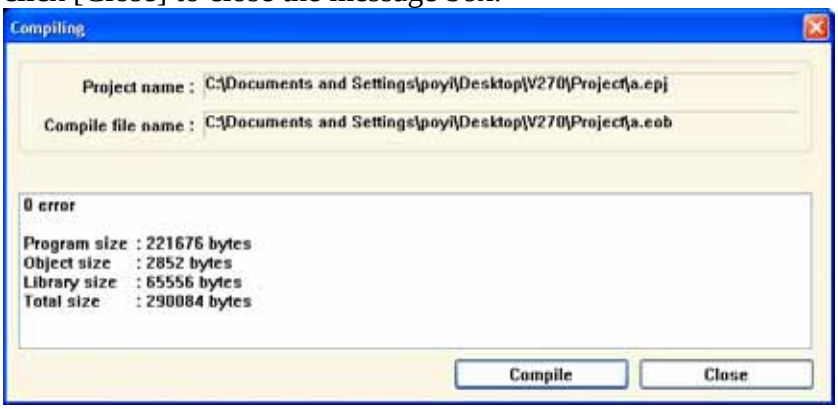


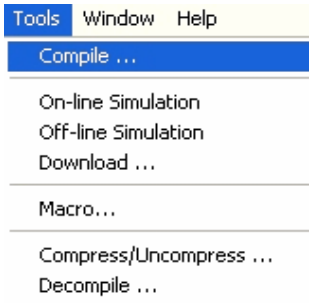
3) We can easily create a new project in this way. In the menu bar, select menu [File]/[Save] to save the project. as a.epj. The display shows as below.



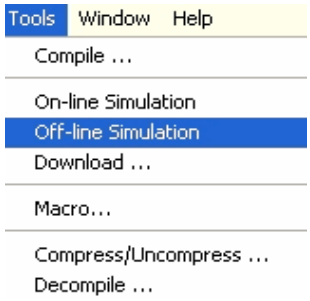
Click “Save”

4) In the menu bar, select [Tools] / [Compile], it will pop up a compiling message box. After compiling, click [Close] to close the message box.





5) In the menu bar, select [Tools] / [Off-line simulation] for PC to simulate the PLC and emulate operations. At this time, we can see the new blank project we just created on the simulation screen as below.

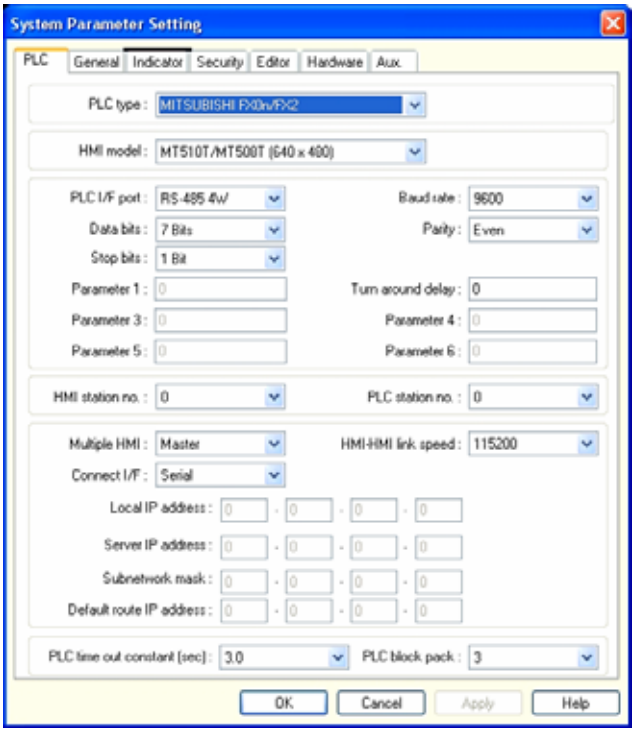


There’s no object on the screen and it doesn’t allow to be executed any operations.
On this screen, right Click the mouse and select Exit , or press Space key to exit the simulation screen.

2.2 Create a Toggle Switch Object

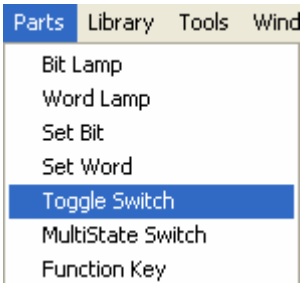
Next step, we add a switch object on the project.

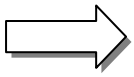
1) First, in menu bar, select [Edit]/[System Parameters], the “System Parameters Setting” popup dialog appears.

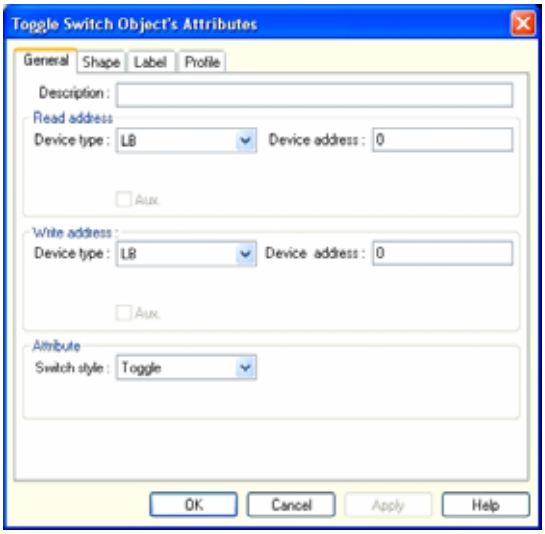


In this example, we choose PLC type as MITSUBISHI FX0n/FX2.Select corresponding HMI model you are using.

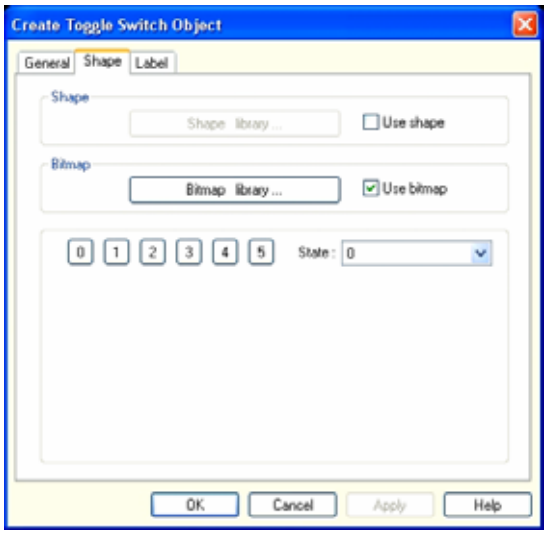
2) In the menu, select [Tools]/[Toggle Switch] or click  icon, the popup Toggle Switch attributes dialog appears as follows:



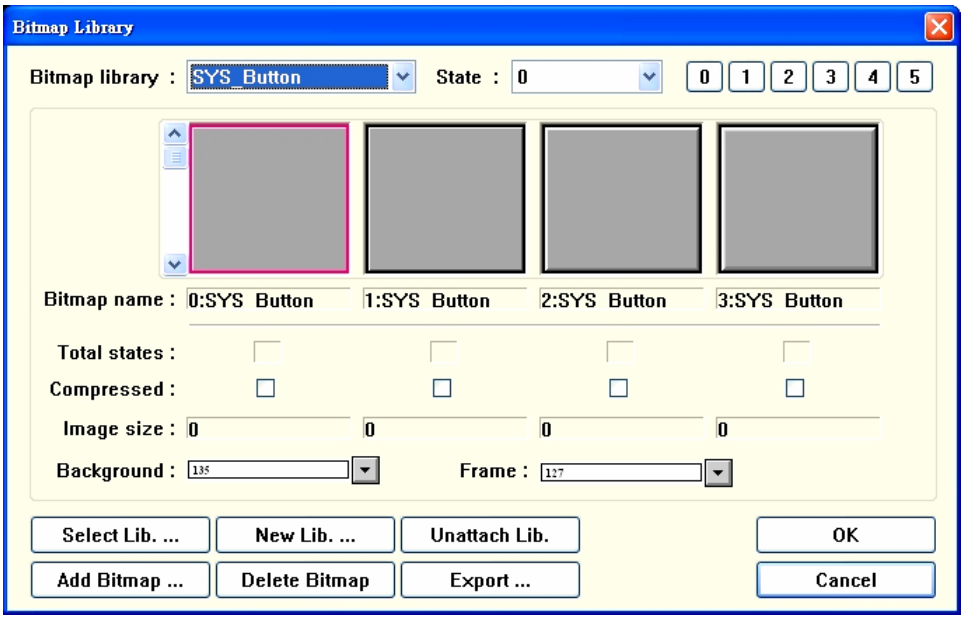




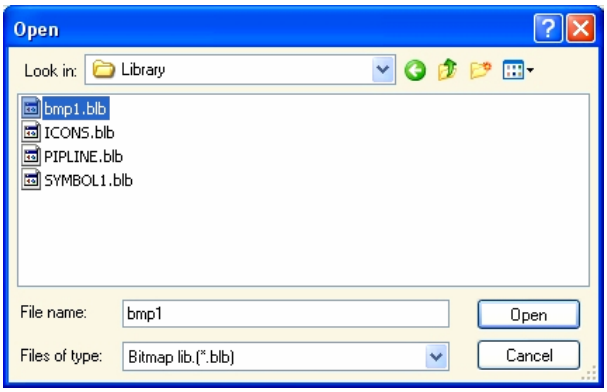
3) Switch to Shape Tab, select Use bitmap and press Bitmap library.



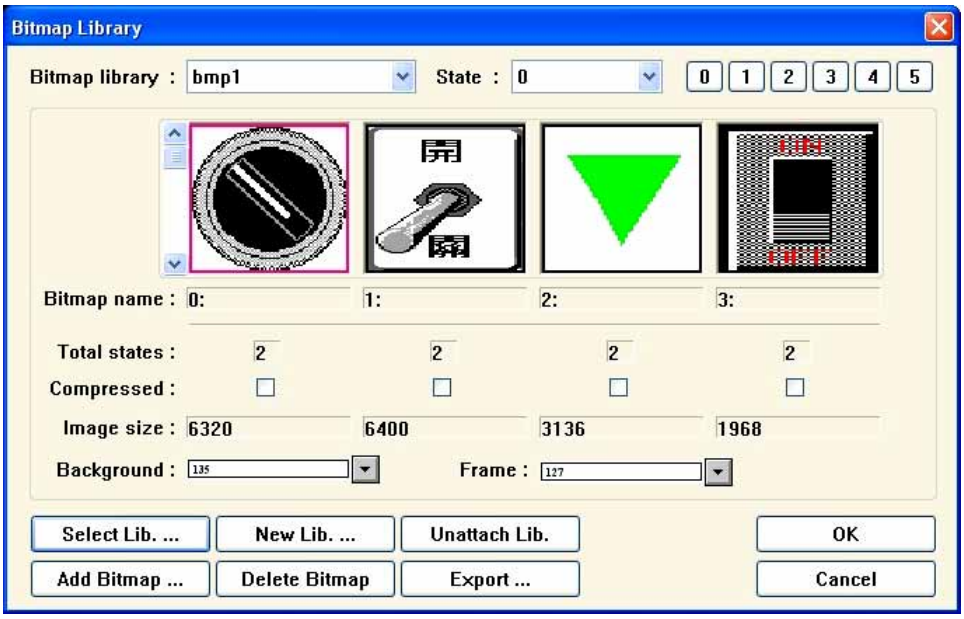
After pop up a Bitmap library dialog, press Select Library.



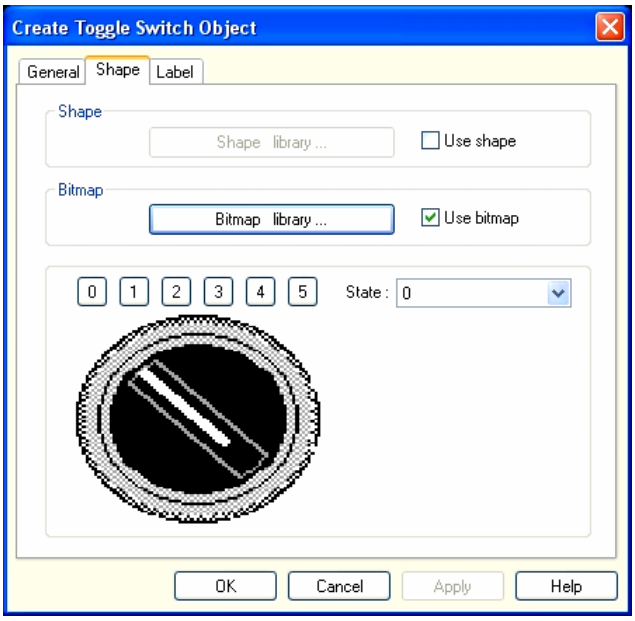
Select appropriate Bitmap library. We choose bmp1.blb here and click Open.



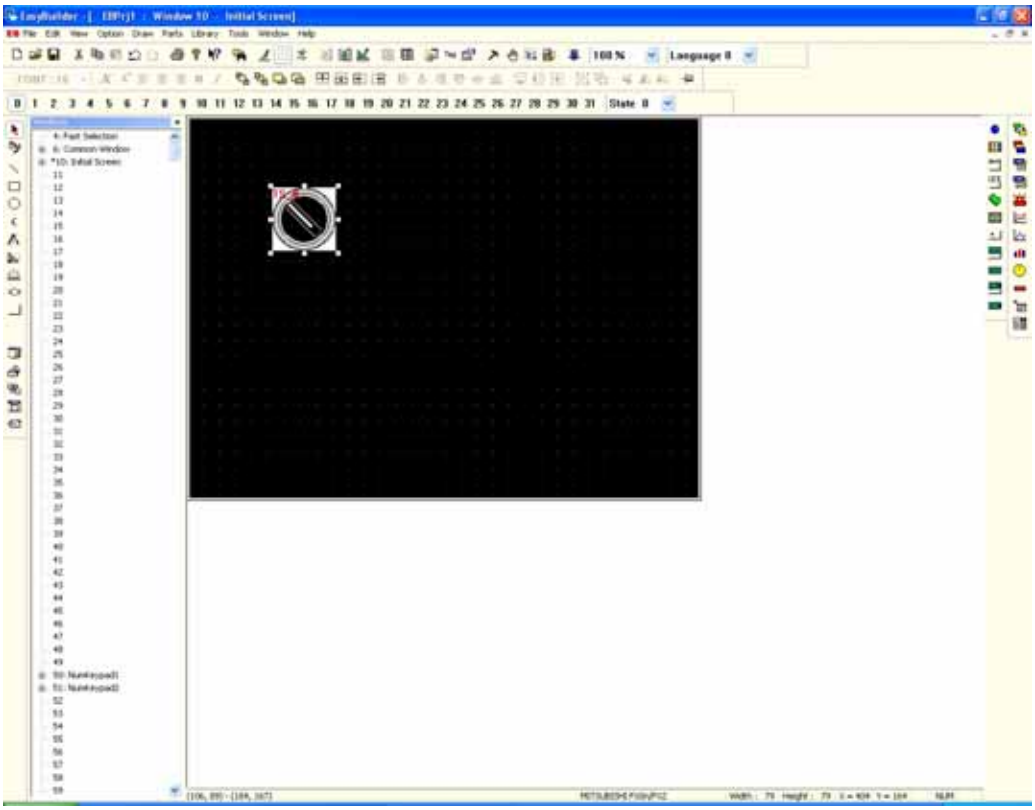
The pop-up dialog shows as below. Select the bitmap1 and click OK.



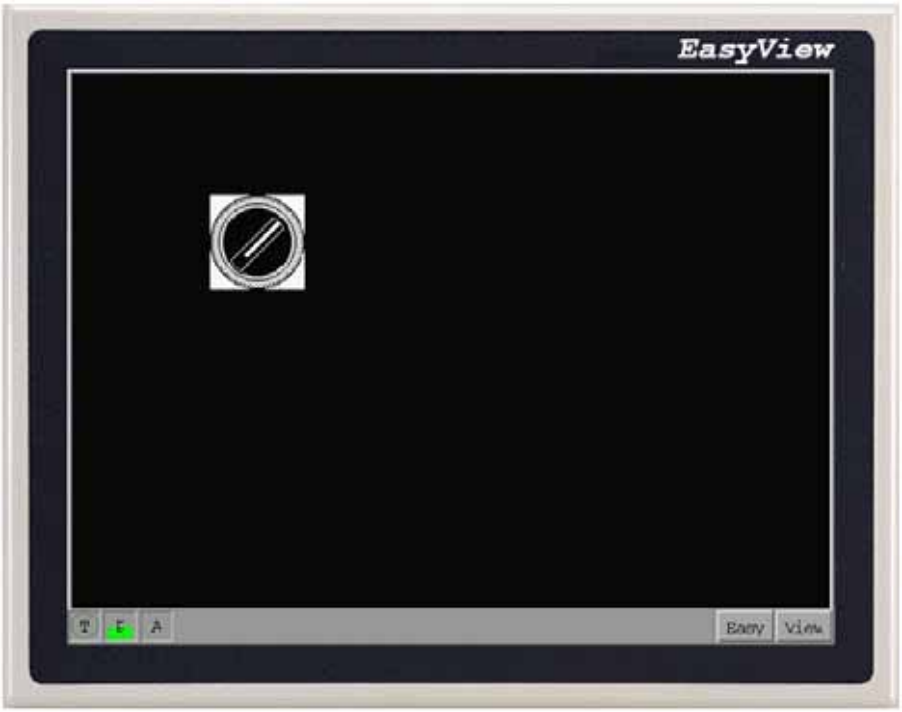
Return to Shape Tab dialog and press OK.



Left Click the mouse to pull the object in to the screen as below.



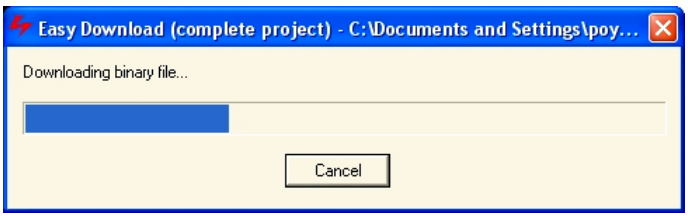
4) In menu bar, select File/Save and then select Tools /Compile.
5) In menu bar, select Tools/Off-line simulation. When clicking the switch object, you can see the on/off situations like a real one.



6) If you have MT5_PC, please connect [PLC] port of MT5_PC to PLC and [HMI] port of MT5_PC to the PLC[RS485] port of the display, PC port to the PC COM.

Have the power openly now.

7) In the menu bar, select [Tools]/[On-line Simulation], you will find by clicking the switch on your display, you can control the corresponding PLC output Y1. You can change this output status.
8) In the menu bar, select [Tools]/[Download].



9) After downloading, reset the HMI. You can control this switch by touching the object.