

KMK USB 10 RC Servo Controller

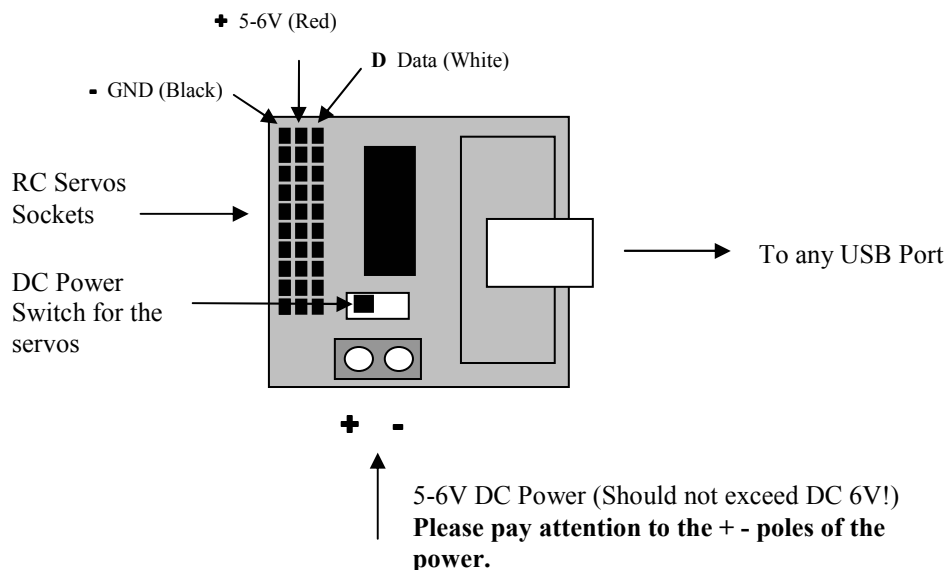
Introduction

KMK USB 10 RC Servo Controller Card is a plug and play easy to use controller for controlling the movements of 10 RC servos directly with the PC via any USB port. The controller card is compatible with Futaba RC Servos. Driver and OCX control for writing programs with VB, C# and C++ are provided on the CD or can be downloaded from our web site (www.kmk.com.hk). Please check our web site for the most up to date software and drivers.



CAUTION

Dry battery cells are recommended to use with the battery rack provided for providing power to the KMK USB 10 RC Servo Controller. If power supply is used, **PLEASE BEWARE THAT THE VOLTAGE SHOULD NOT EXCEED 6V OTHERWISE THE SERVOS AS WELL AS THE CONTROLLER WILL BE DAMAGED.**

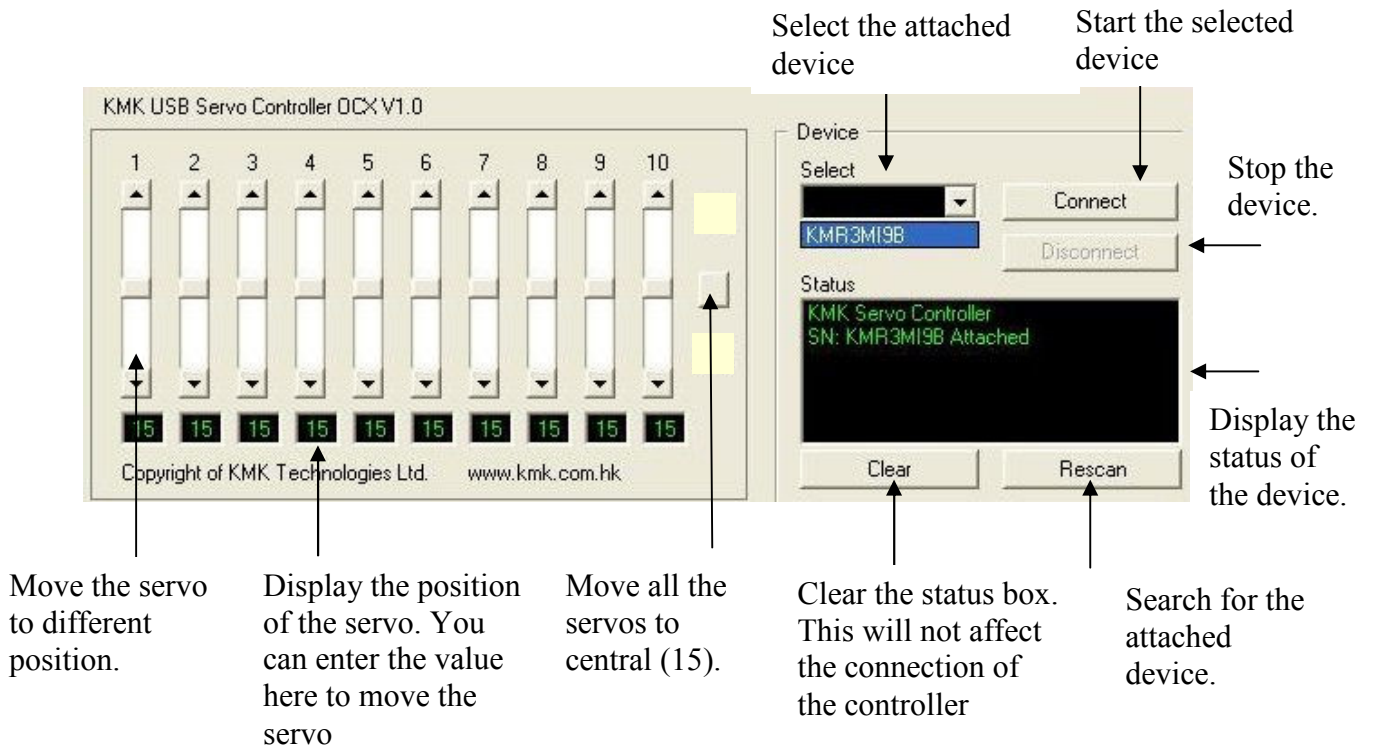


Operations

1. Plug the USB cable to the Controller.
2. Connect to any USB port of the PC.
3. On the right hand corner of Windows will display a message “ KMK Servo Controller” and prompt for installing the driver¹.
4. Browse to the driver folder of the CD and click “OK” and the drivers will be installed automatically.
5. Install the KMK Servo Controller OCX provided on the CD (or download from www.kmk.com.hk).
6. Open Visual Basic and put the KMK Servo Controller OCX on the form.

¹ The driver can be cleaned with the FTClean program provided on the CD.

The following image illustrates the functions of the OCX Control.



KMK Servo Controller OCX Commands (Visual Basic 2005)

Axkmkusbservo1.Device = KMXXXXX	Enter the Serial Number of the Controller
Axkmkusbservo1.Port_Open_Close	1 = open port 0 = close port
Axkmkusbservo1.Stat	Showing the port status
Axkmkusbservo1.Servo1 = 15	Servo position. 0-30
Axkmkusbservo1.Servo2 = 15	Servo position. 0-30
Axkmkusbservo1.Servo3 = 15	Servo position. 0-30
Axkmkusbservo1.Servo4 = 15	Servo position. 0-30
Axkmkusbservo1.Servo5 = 15	Servo position. 0-30
Axkmkusbservo1.Servo6 = 15	Servo position. 0-30
Axkmkusbservo1.Servo7 = 15	Servo position. 0-30
Axkmkusbservo1.Servo8 = 15	Servo position. 0-30
Axkmkusbservo1.Servo9 = 15	Servo position. 0-30
Axkmkusbservo1.Servo10 = 15	Servo position. 0-30
Waitms (1000)	Delay for 1 sec.
Sleep (1000)	Delay for 1 sec. (same as Waitms)

Note:

- For writing code, the serial number of the controller should be assigned with Axkmkusbservo1.PortN = KMXXXX before opening the port.
- Note that the serial number is case sensitive.
- The first ocx should be named 'Axkmkusbservo1' and the second ocx should be 'Axkmkusbservo2' and so on.

(Note: A sequential programmer including source code (VB6) is included on the CD)