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# **TPOffset v2.7.1.2**

## **User's Guide**

DMC Co., Ltd.

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## Introduction

This guide provides the information about using TPOffset. Read this guide completely so you can fully utilize the functions of this application software.

This application tool must be executed before operating DMC's touch screens of capacitive multi-touch type (DUS series and EXC series) with the DUS series controller.

Basically, this application tool is necessary to be executed only once before initial use of the touch screens, and unnecessary from the second time use onward. Only if either the usage environment drastically changed or operation performance is felt to be changed, execute this application again.

### A. Features and Functions

TPOffset is the application software for making sensitivity adjustment so that a projected capacitive touch screen can be comfortably used with DMC's DUS controller on Windows.

The provided functions and its features are as below.

1. Just by clicking the adjustment button, automatic sensitivity adjustment will be executed to improve operability of the touch screen.
2. Once the adjusted values are written into ROM area in the touch screen controller IC, the same adjustment task will not have to be performed again.

### B. Supported models

Supported model: IBM PC/AT or its compatibles

Supported operating system: Windows XP SP3, Windows Vista SP2, Windows 7 SP1(32bit/64bit),  
Windows 8 (32bit/64bit), Windows 8.1 (32bit/64bit), Windows 10 (32bit/64bit)

### C. Remarks

1. This application software is for DMC's touch screen controller, DUS series. It is not intended for operation with the other touch screen controllers and the products similar to them.
2. For how to use this software, read this guide well. Do not use any other methods with the software.
3. This application software is not intended for the model of computer and operating system other than the supported ones. Even with the supported operating systems and computers, it is not guaranteed to work in every system environment.
4. DMC will not be liable for any loss caused by the use/install of this software. Please back up your system beforehand
5. If the touch screen stops working properly due to power-off in the midst of calibration, execute "Adjust offset" and "Calibrate offset" again.
6. If touch operation does not work after this application program (TPOffset) ended, power cycle the DUS controller.

## Usage

This application software does not require installation.

Save the software anywhere in a manner that the below three files are in the same hierarchy level.

< File Composition >

TPOffset.exe	This Application Software
TPCTest.ini	Configuration Setting File
USBHIDIFu.dll	DLL File

## Supported Interface

This software application supports USB only in default setting.

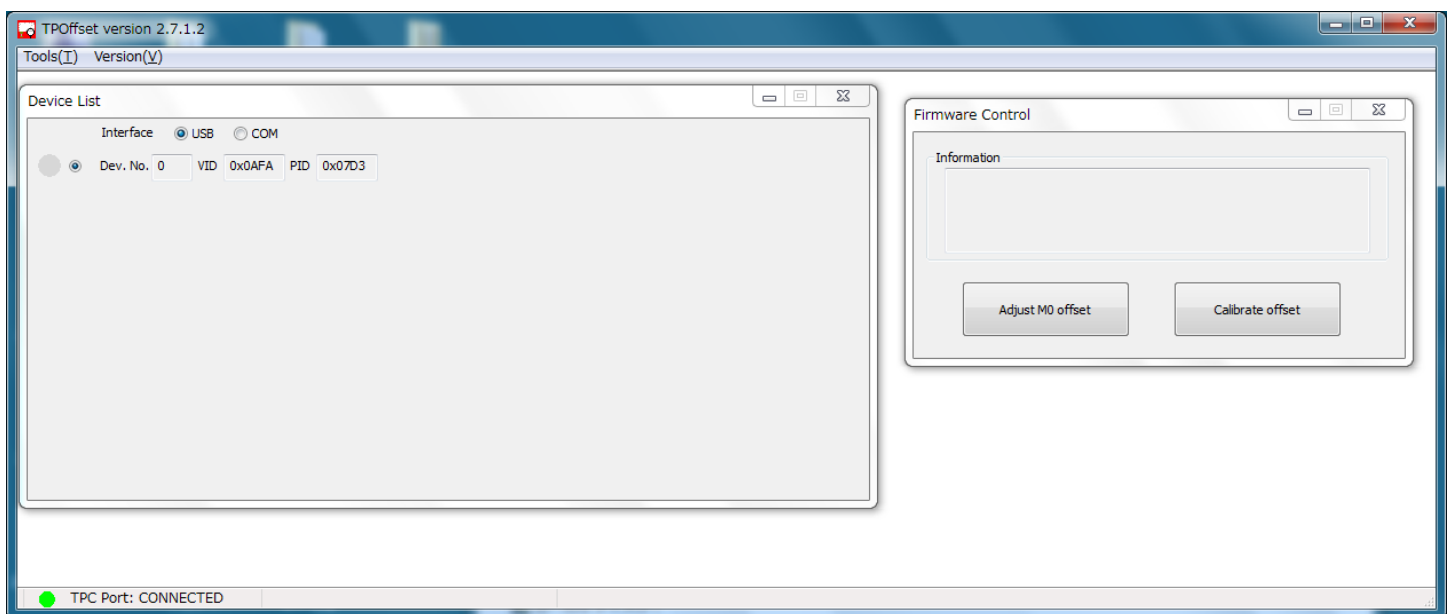
If serial (UART) connection is to be used, refer to [Manual Execution] described later in this document, and change the execution mode to Manual Execution mode. Then, switch Interface from [USB] to [COM].

## Execution

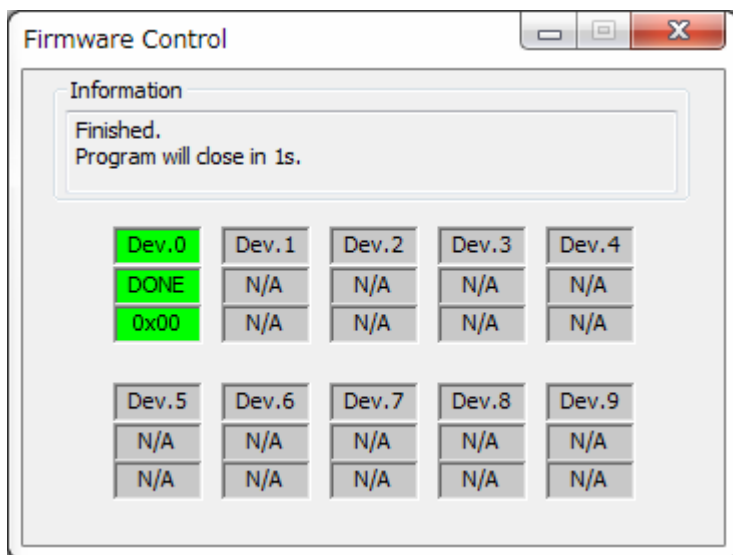
Connect the touch screen controller to the host computer and double-click TPOffset.exe. This application will be executed automatically.

The window as below will open.

(Note) Do not touch the touch screen during execution.



Once “Finished” appeared in the Information window, the execution will end. The application will end automatically.



You can change the setting so that the application will not end automatically.

Open the TPC Test.ini file.

Change AUTOCLOSE as below.

[APPMODE]

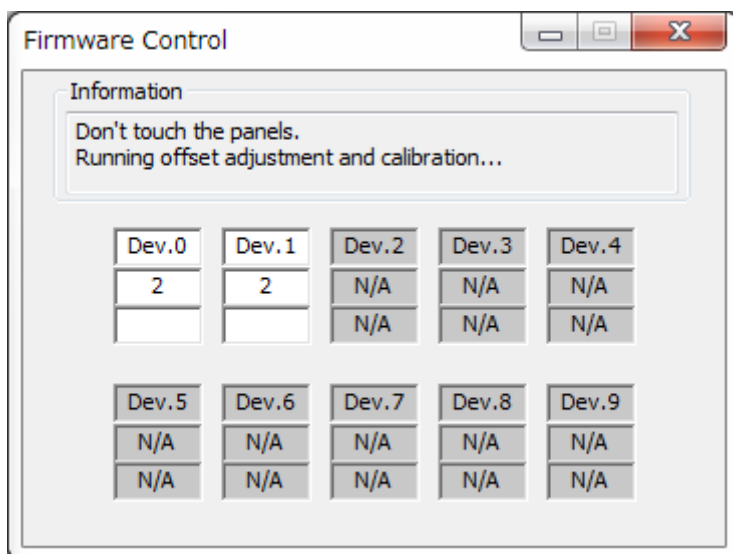
AUTOCLOSE=0

(Change the default value 1 to 0)

Save and close the file.

This application can be executed for multiple controllers at the same time.

Example: 2 controllers are connected.



## Manual Execution

(Preparation)

Open TPCTEST.ini

Make the change as below.

[APPMODE]

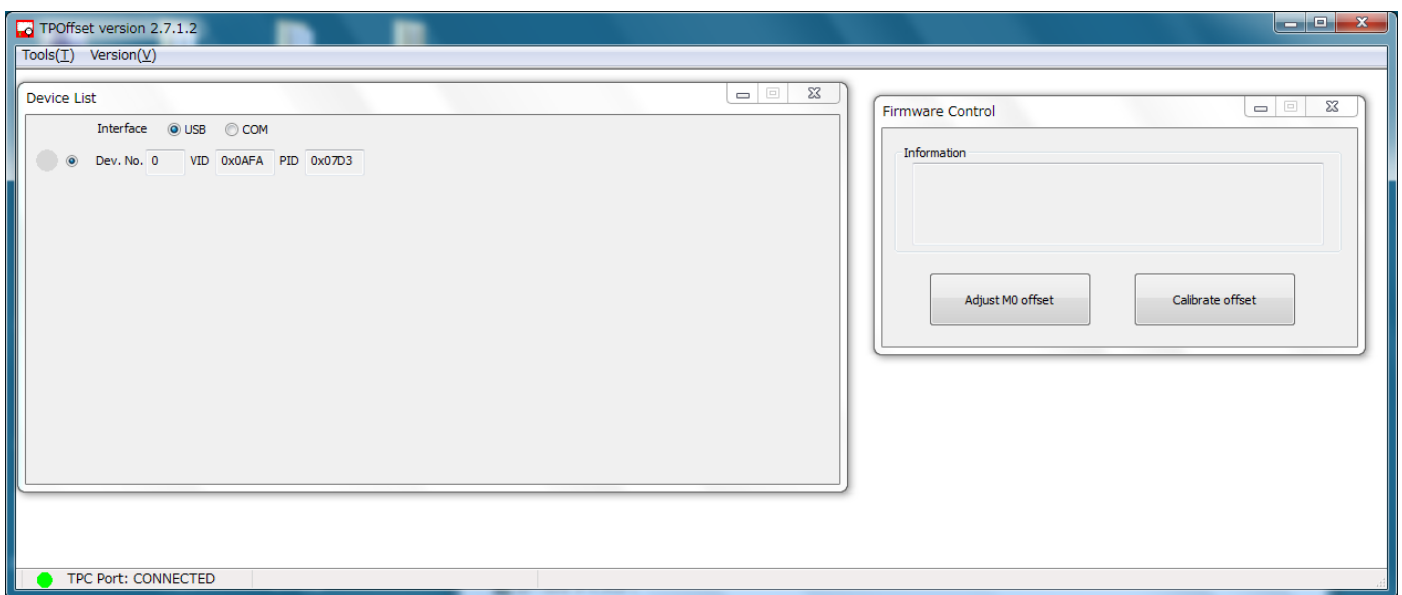
AUTORUN=0

(Change the default value1 to 0)

Save the data (overwrite) and close the file.

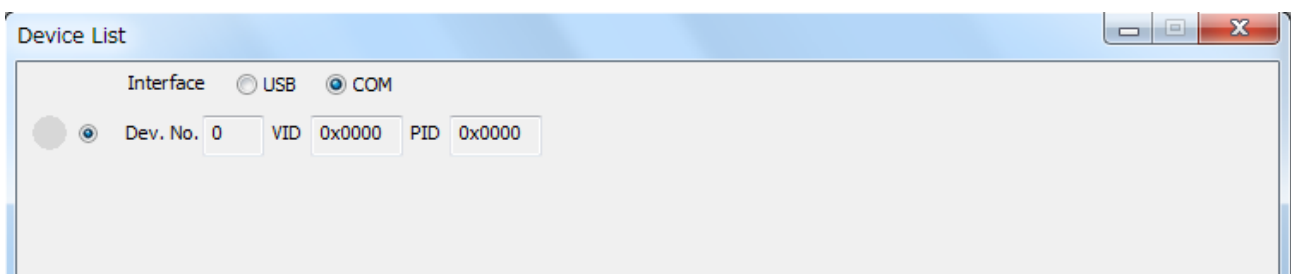
Connect the touch screen controller to the host computer. Double-click the TPOffset.exe file for starting.

The window as below will appear.



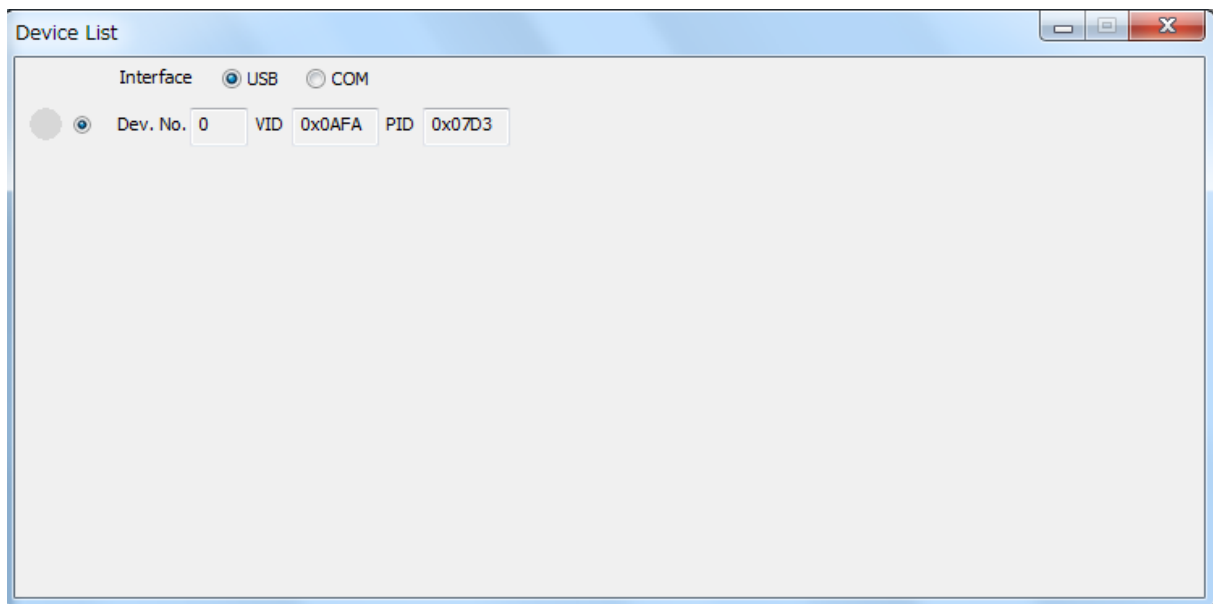
If the two windows, [Device List] and [Firmware Control] did not open, open [Tool] under the menu and click the unchecked. If the windows were closed via the [X] button, they can be opened again in the same manner.

If serial (UART) connection is to be used, switch Interface from [USB] to [COM].



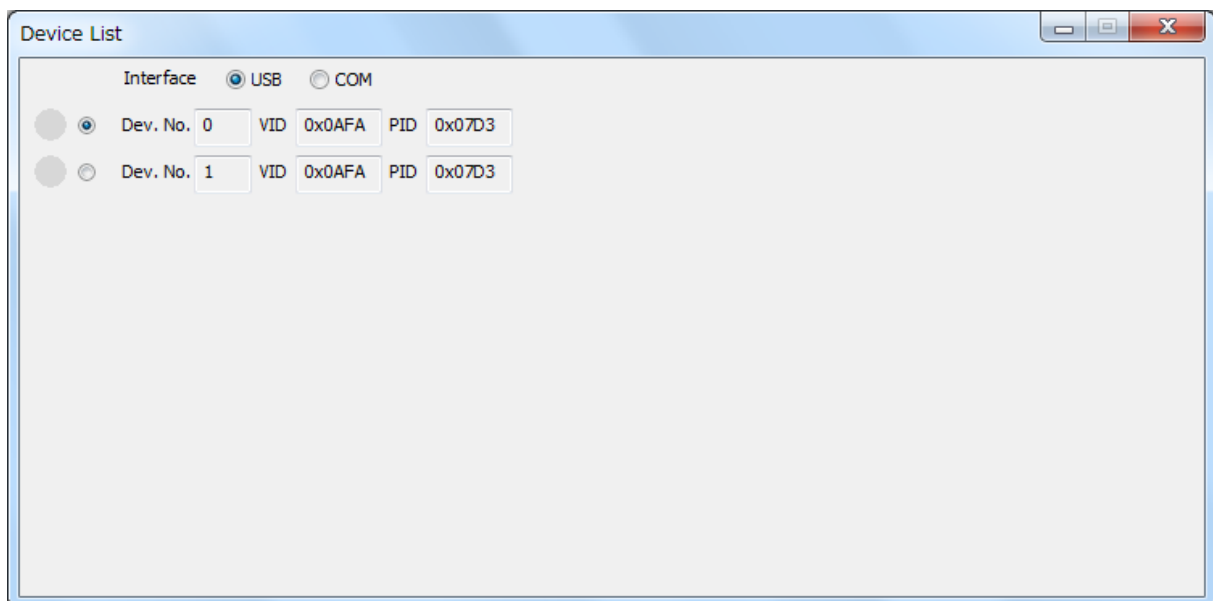
## Usage

Check if the controller is recognized by the Device List.



If several devices are connected, all the connected controllers will be listed.

Select the device intended to be operated with the radio button.



<Displayed Contents>

Dev. No. 0

: Device Number

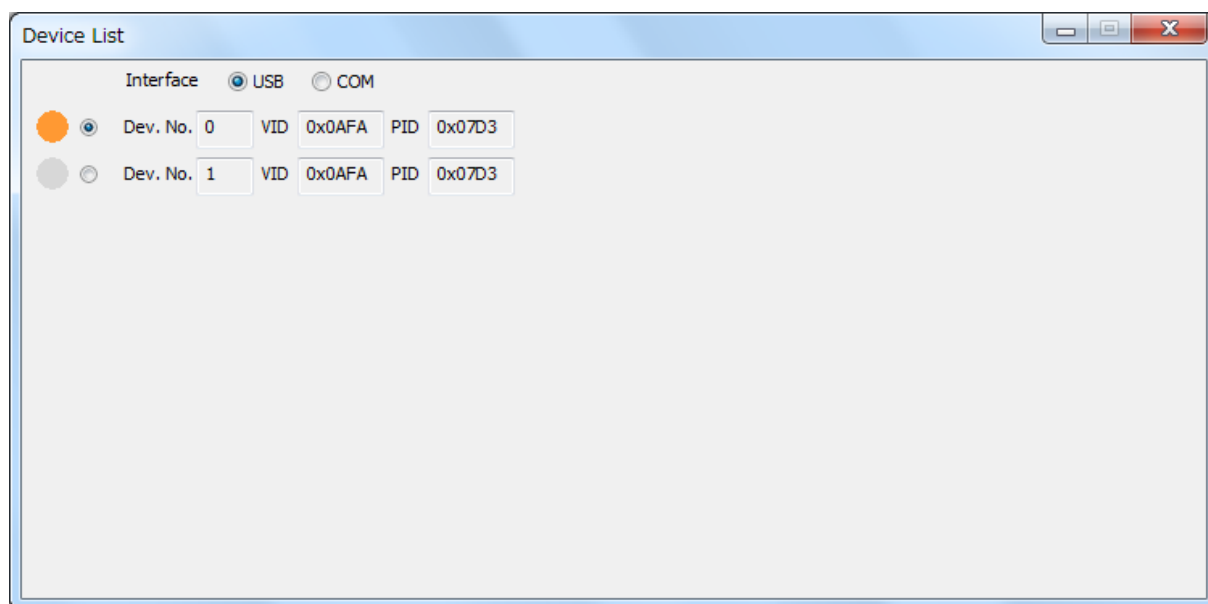
VID 0x0AFA PID 0x07D3

: Vendor ID/Product ID of the connected devices

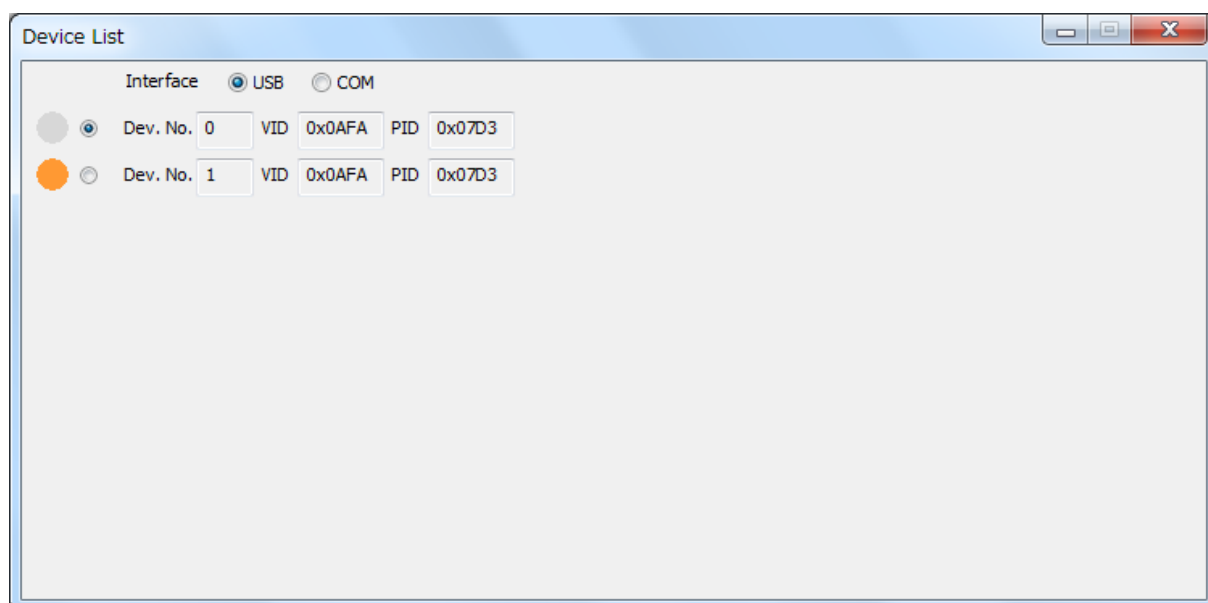
For controller in serial connection, both VID and PID will be 0x0000.

If one of the touch screens is touched here, the lamp of the corresponding device will be on.

Example: [Dev, No.0] is touched.

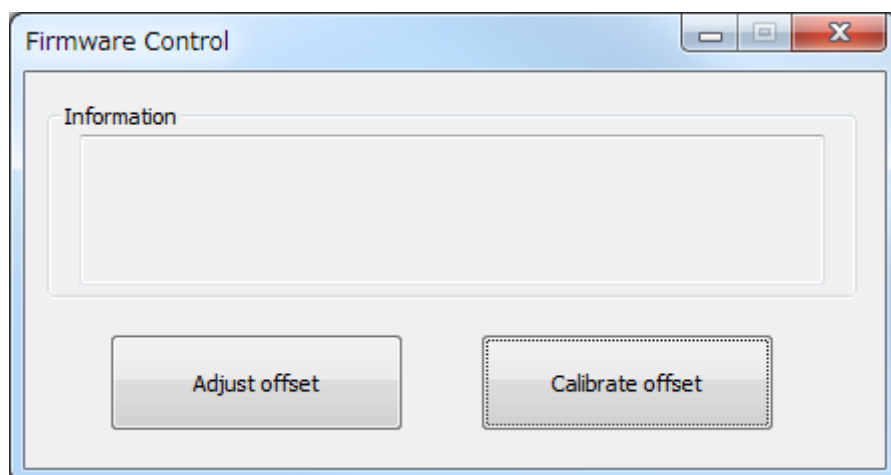


Example: [Dev, No.1] is touched.



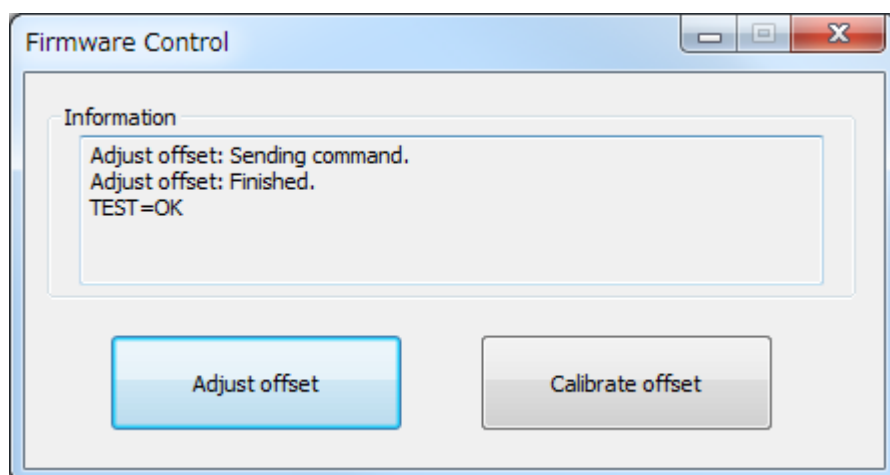
Click the [Adjust offset] button in the Firmware Control window.

(Note) Do not touch the touch screen on the occasion.



Adjustment will be automatically made according to the surrounding environment.

Once the below window (TEST=OK) appeared, the adjustment is completed.

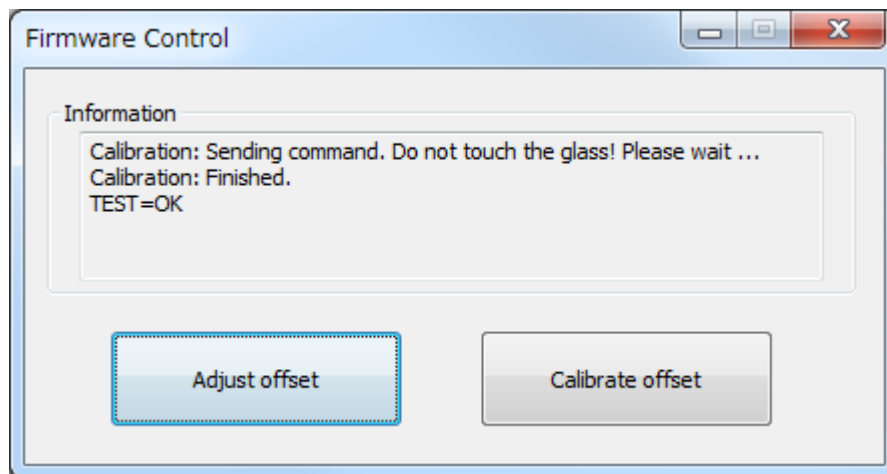




Click [Calibration offset].

(Note) Do not touch the touch screen on the occasion.

Once the below window (TEST=OK) appeared, the calibration offset is completed.



Setting is completed at this point.

Close the application.

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