

Basic usage for NCT08-01E

Tsuji Electronics Co., Ltd.

Rev.1 at 2016/12/09

HOW TO USE NCT08-01E

- ▶ There is two method to connect NCT08-01E with PC.
- ▶ One is LAN, another is USB.
- ▶ This tutorial is shown with USB case.

Step-1 :

Measurement program install

- ▶ Please DON'T connect NCT08-01E with PC.
- ▶ Please download the Measurement program.
 - ▶ http://www.tsuji-denshi.co.jp/download/CT08_64_01E.exe
- ▶ And extract, and then execute setup.exe.
 - ▶ The program “CT08_64_01E” will be listed in Windows start menu.

Step-2 : USB driver install

- ▶ USB driver preparation
 - ▶ Please download the execution file from Tsuji Electronics HP.
 - ▶ http://www.tsuji-denshi.co.jp/download/YS_USBCOM.EXE
 - ▶ After download, please execute.
 - ▶ The files will be stored to your specified folder.

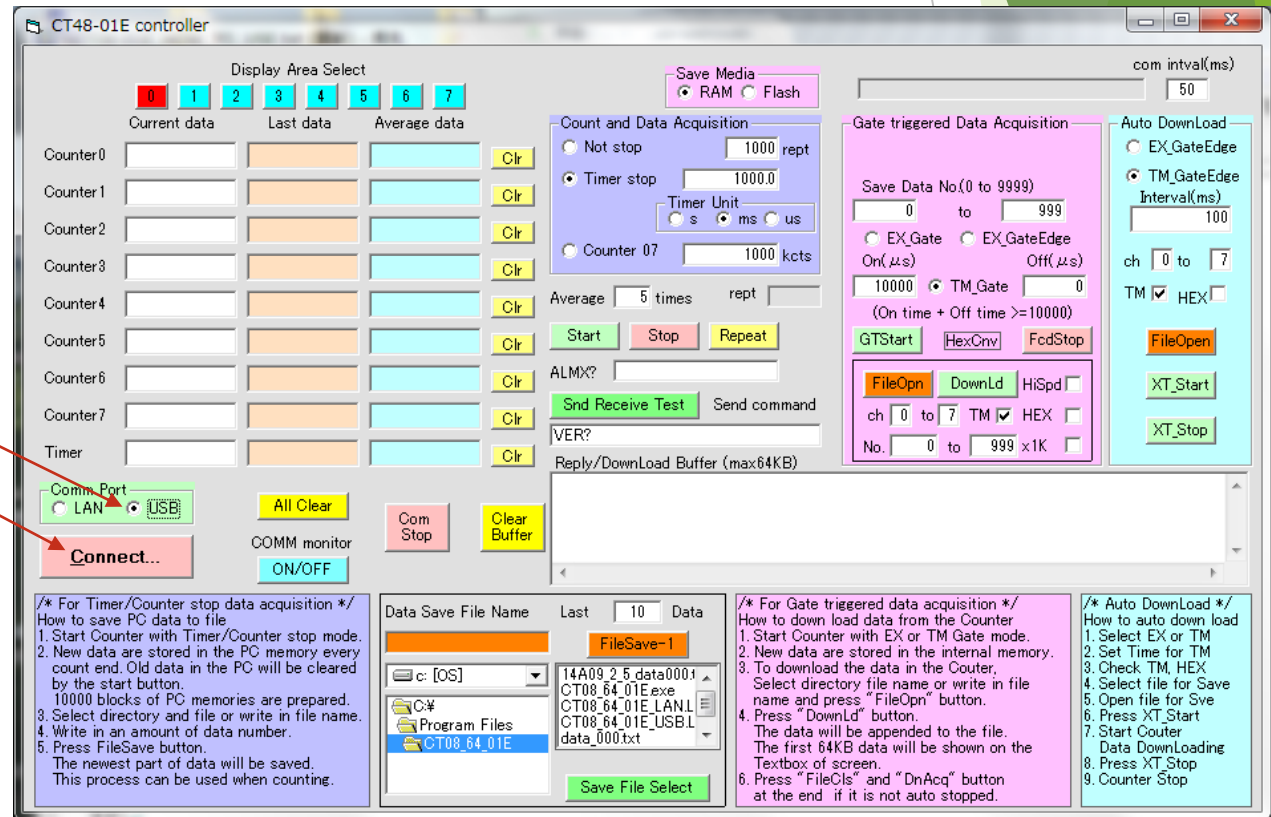
Step-2 : USB driver install ... cont'd

- ▶ Driver install
 - ▶ Power ON NCT08-01E.
 - ▶ Please connect NCT08-01E with PC by USB cable.
 - ▶ After connect, you should specify the folder of USB driver.
 - ▶ USB driver will be installed.
- ▶ USB port and com port
 - ▶ The USB port is simulated as a COM port.
 - ▶ You should confirm which COM port is used for USB port.

Step-3 :

Connect NCT08-01E with PC

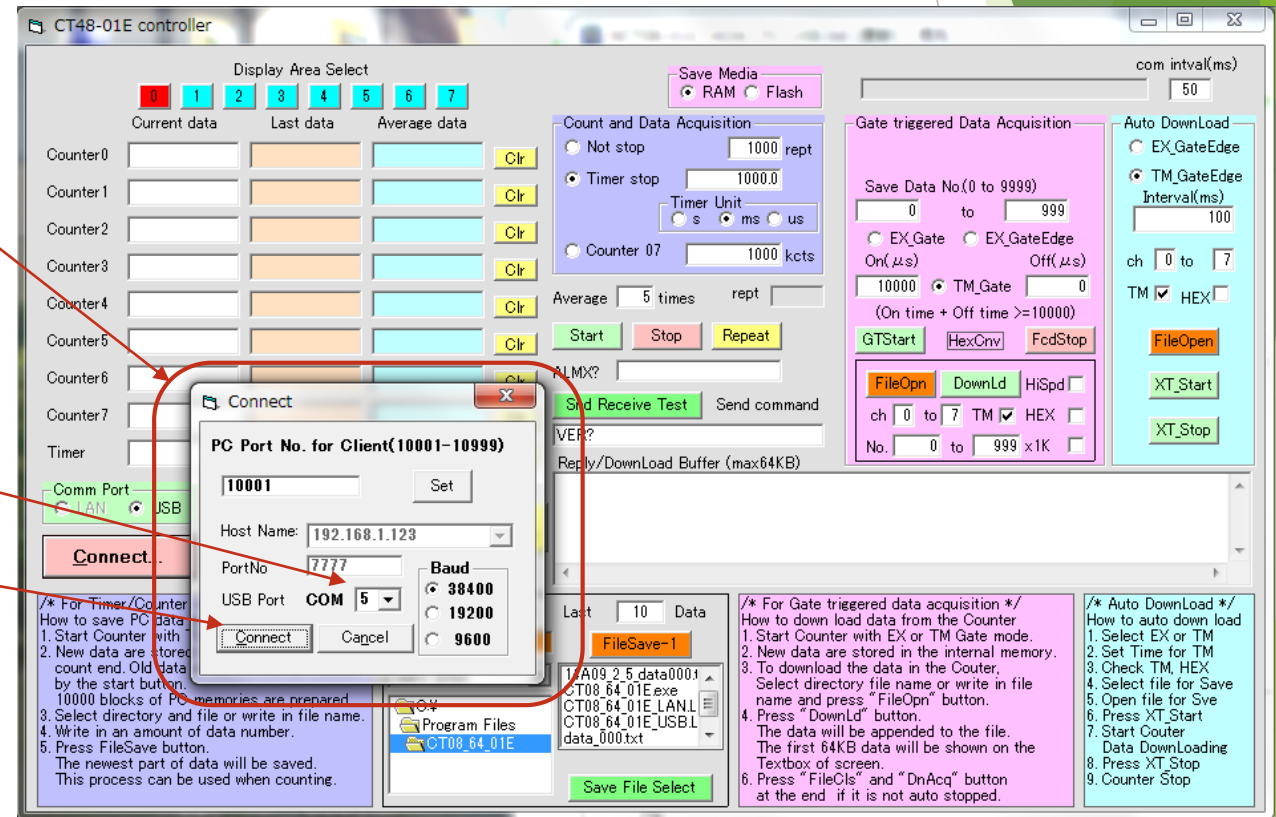
- ▶ Execute the measurement program "CT08_64_01E" that was installed at step-1. (You can see this program in Windows start menu.)
- ▶ Select "USB" in Comm Port.
- ▶ Click the button "Connect...".



Step-3 :

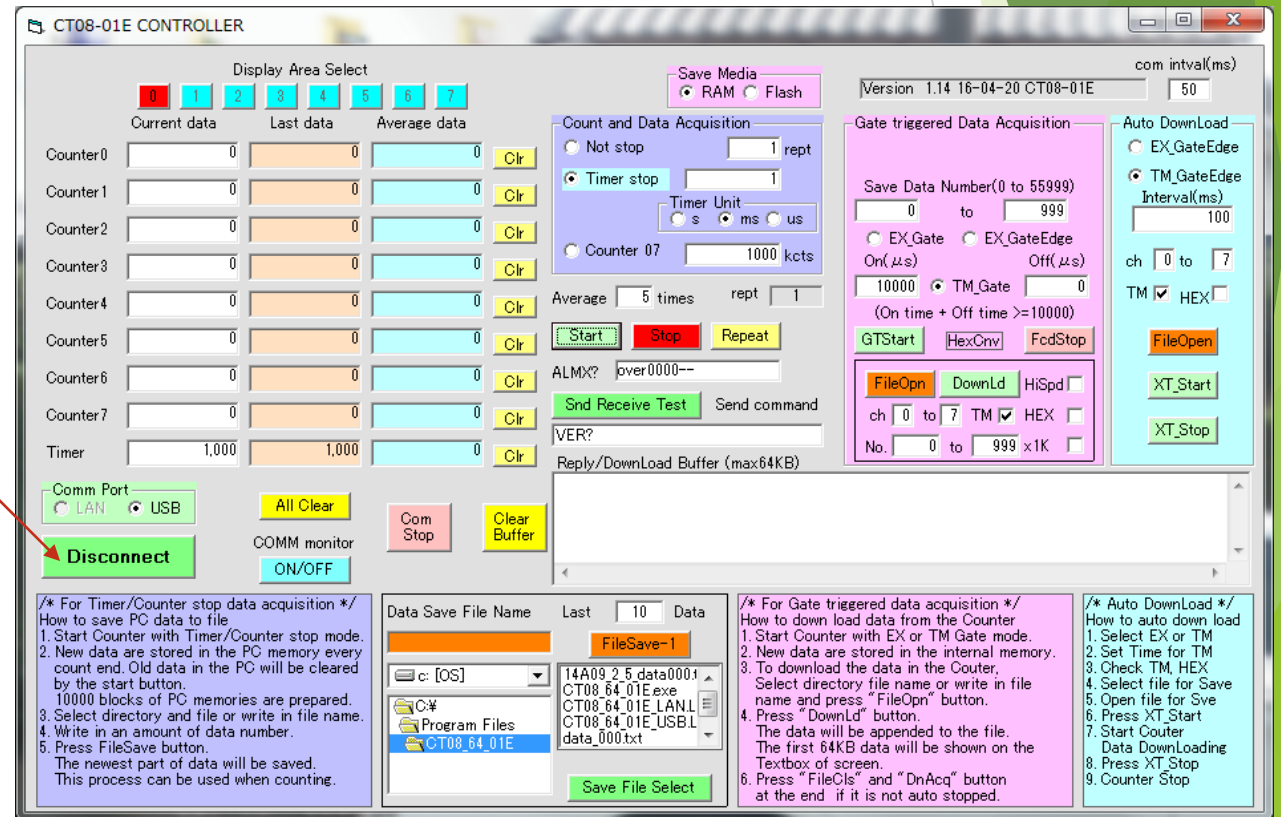
Connect NCT08-01E with PC ... cont'd

- ▶ Small window (connect) will come up.
- ▶ Please set USB port COM number.
- ▶ You should confirm USB port COM number of your PC.
- ▶ This case, the number is 5.
- ▶ Click "Connect".



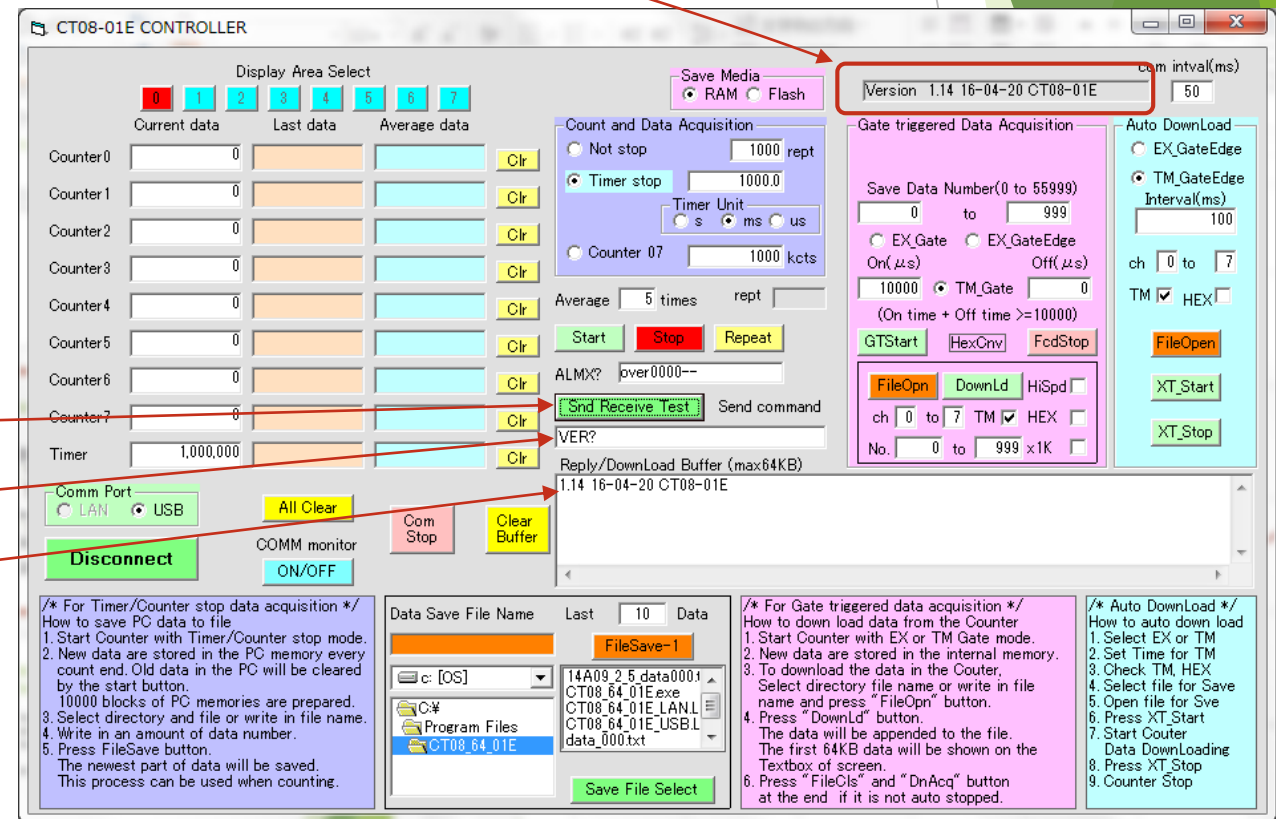
Step-3 : Connect NCT08-01E with PC ... cont'd

- The connection is succeeded, if the button is changed to "Disconnect" with green.



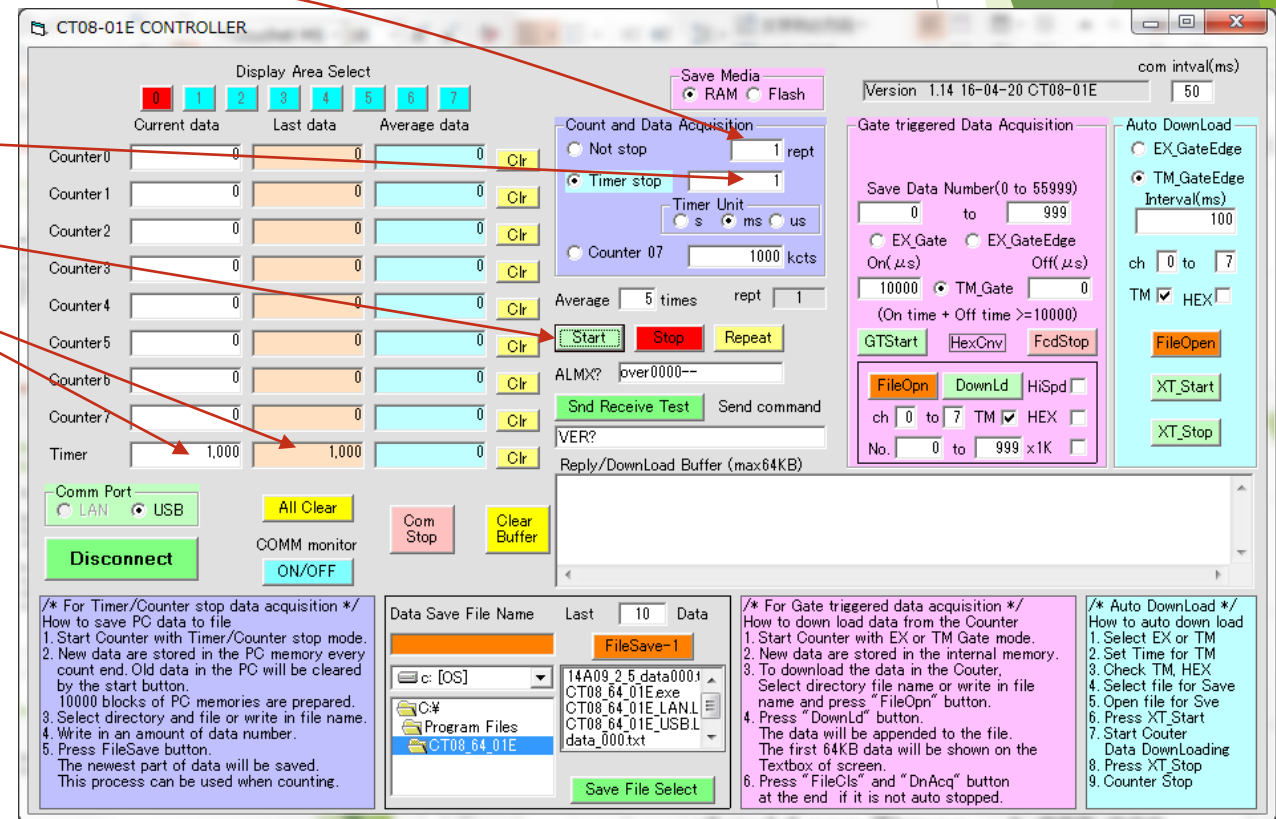
Step-4 : Confirm the connection

- ▶ Please see the right top corner of the program window.
 - ▶ You should see "Version 1.14 16-04-20 CT08-01E".
 - ▶ (*) You can see CT08-01E, not NCT08-01E. But, it is okay, because there is the same firmware is used between NCT08-01E and CT08-01E.
- ▶ Please click the button "Snd Receive Test".
 - ▶ This button sends the command that is written at command line.
 - ▶ "1.14 16-04-20 CT08-01E" will be appeared in Reply window.
- ▶ If you can see the above, it is success to connect NCT08-01E with your PC.



Step-5 : Timer function check

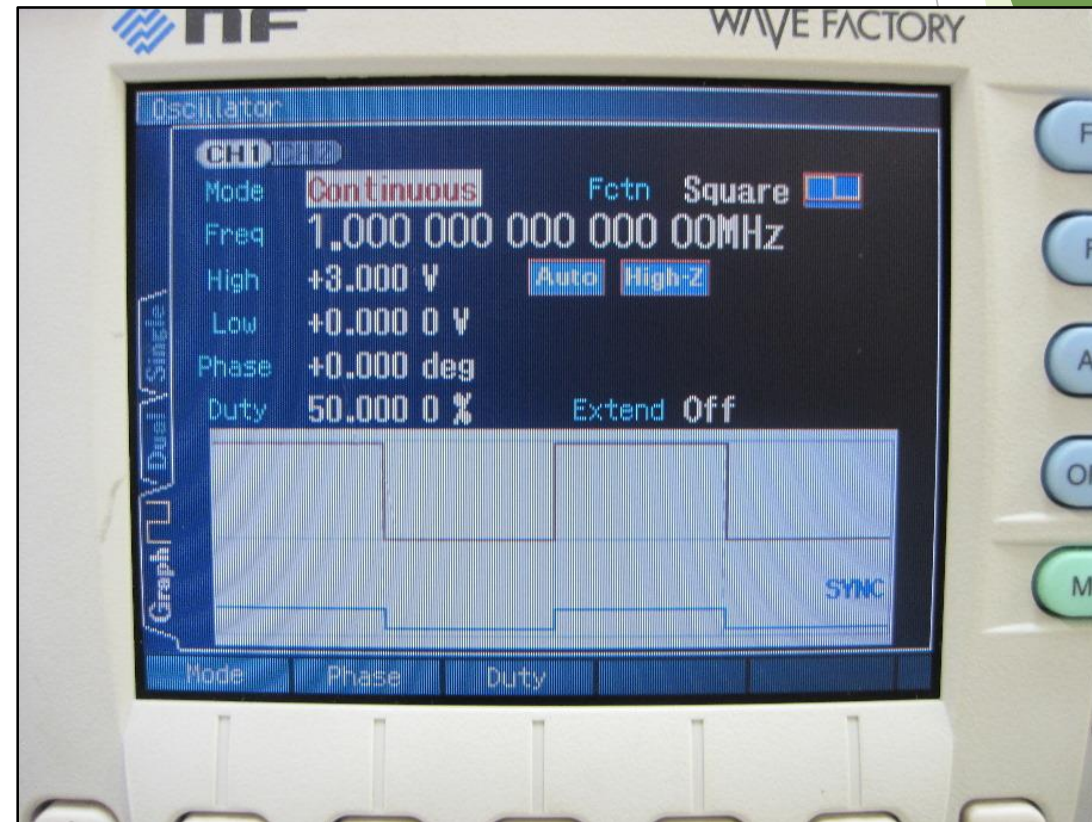
- ▶ Please set rept = 1 and timer stop = 1 (ms).
- ▶ And then click "Start".
- ▶ You should see Timer = 1,000 (us).
- ▶ Set timer stop = 1 (ms), you should see Timer = 1,000,000 (us).



Step-6 :

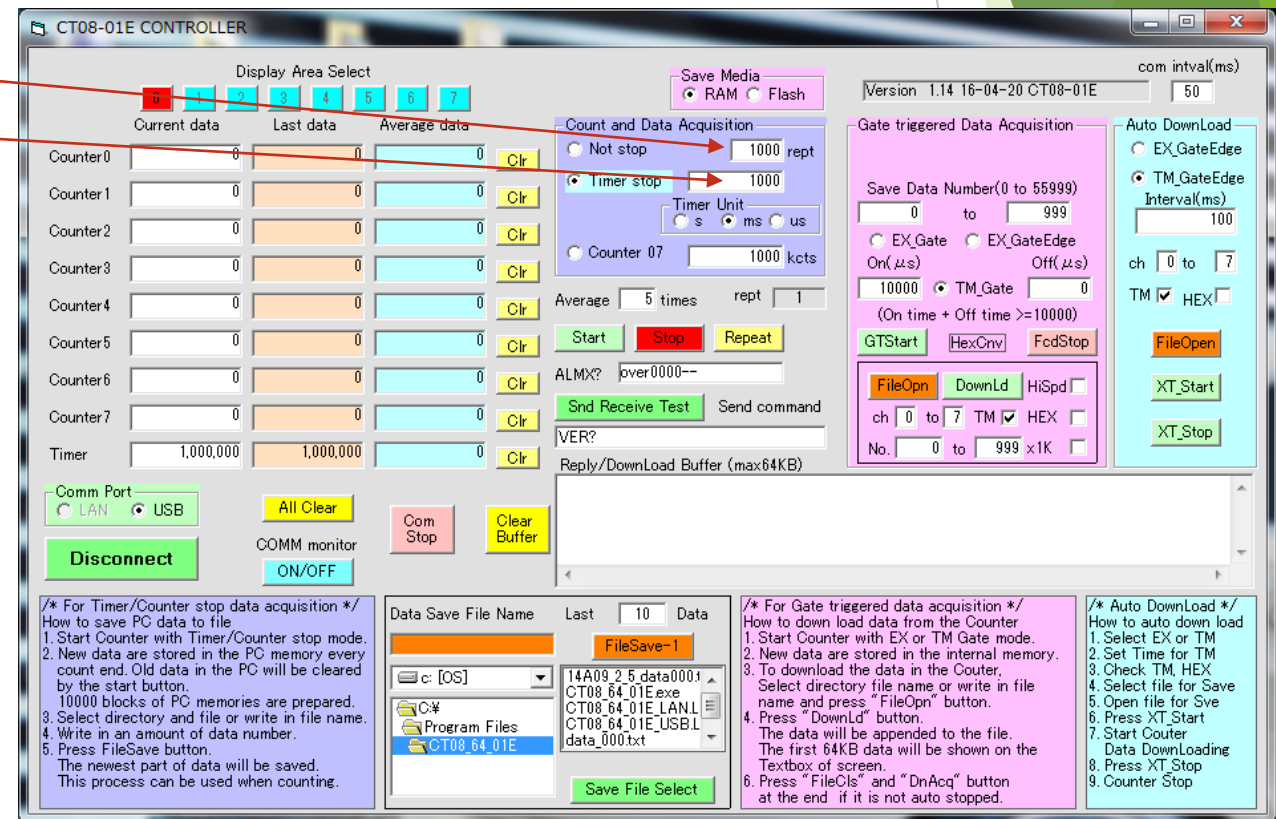
Function Generator set up

- ▶ Please set the below signal for the signal function generator.
 - ▶ Continuous signal
 - ▶ PULSE, Square
 - ▶ 1MHz (you can set more higher like 100MHz, if TTL).
 - ▶ HIGH=3V
 - ▶ LOW=0V
 - ▶ Hi-Z output (not 50ohm)



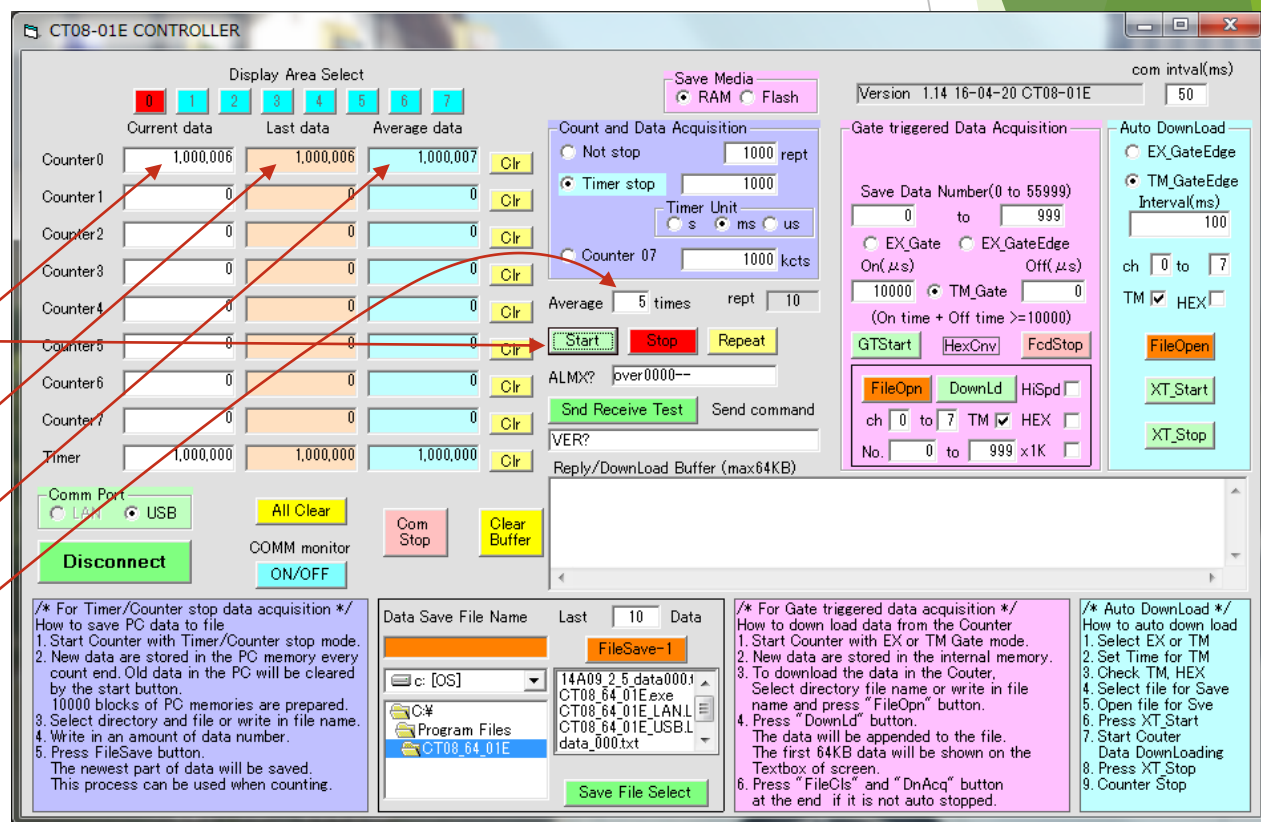
Step-7 : Counter function check

- Please set rept = 1000, timer stop = 1000.



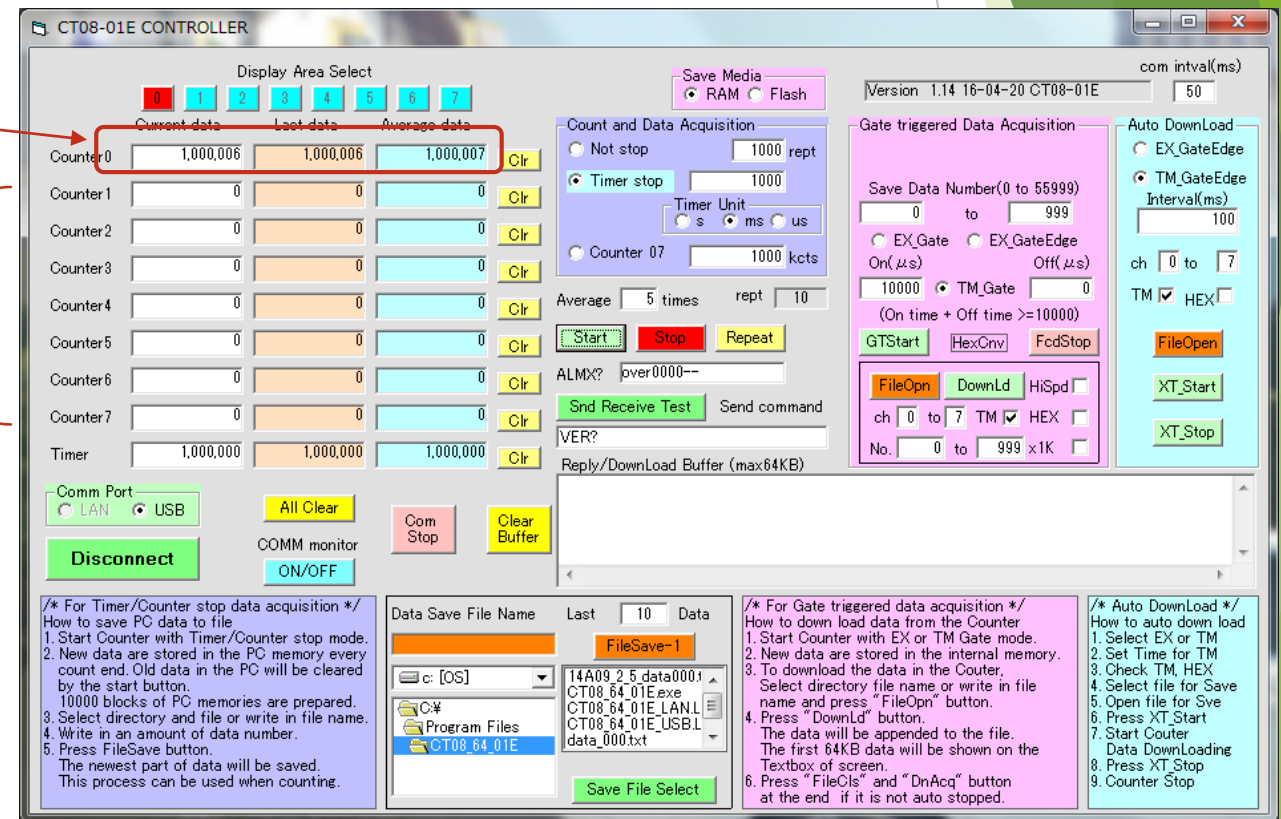
Step-7 : Counter function check ... cont'd

- ▶ Connect Function generator with NCT08-01E CH0 by the signal cable.
- ▶ Output the signal from Function generator.
- ▶ Click “Start”
- ▶ You can see the counter value.
 - ▶ Current data : Now, the counter is counting.
 - ▶ Last data : data just before current data.
 - ▶ Average data : averaged data (Number of data to be averaged)



Step-7 : Counter function check ... cont'd

- It is good if you see the value around 1,000,000 at Function Generator output = 1MHz.
- Please repeat CH1 ~ CH7.



Step-8 : Disconnect

- ▶ Please click “Disconnect”.
- ▶ “Disconnect” will be changed to “Connect”.
- ▶ The connection line will be closed between NCT08-01E with PC.

