

- 1 . The installation: Setup.exe in directory Installer is executed. (Operating condition: Windows XP and Microsoft network, etc.)
- 2 . The Start: All Program → U3700 2ch(2ch) Graph Viewer → 2ch(2ch) Graph Viewer → execute
- 3 . IP address of SA is confirmed, and it inputs it to the IP address column of the menu. And push the CONNECT button.
- 4 . The Stop and the Re-start: It stops with the END button. Re-start: push an upper right “=>” button and push the CONNECT button.
- 5 . It explains the operating button in the following drawing.

The screenshot shows the software interface with several callout boxes pointing to specific features:

- Re-start button:** Points to the right-pointing arrow button in the top right corner.
- Trace Data Menu:** A box containing instructions: "Select CH1, CH2 (Write, Max, Min) Display CH1/CH2 (CH1-CH2) / (CH2-CH1)". It points to the "CH1 SET" and "CH2 SET" buttons.
- Input "IP Address":** Points to the IP address input field.
- \*IP Address Format: TCPIP::192.168.0.1::5025::SOCKET**: Text describing the required IP address format.
- Connect button:** Points to the green "CONNECT" button.
- End button:** Points to the pink "END" button.
- F setting button:** Points to the "F" button in the "CH1 SET" and "CH2 SET" sections.
- Meas. Freq. input:** Points to the "Frequency" input field.
- Clear Max and Min:** Points to the "CLEAR" button in the "CH1 SET" and "CH2 SET" sections.
- Set Max and Min:** Points to the "Max" and "Min" buttons in the "CH1 SET" and "CH2 SET" sections.
- Rewriting ON/OFF of Density Graph:** Points to the "CH1 WR" and "CH2 WR" toggle buttons.
- The display position is adjusted by the scroll.**: A callout box pointing to the scroll bars on the right side of the graph windows.

SA direct control:

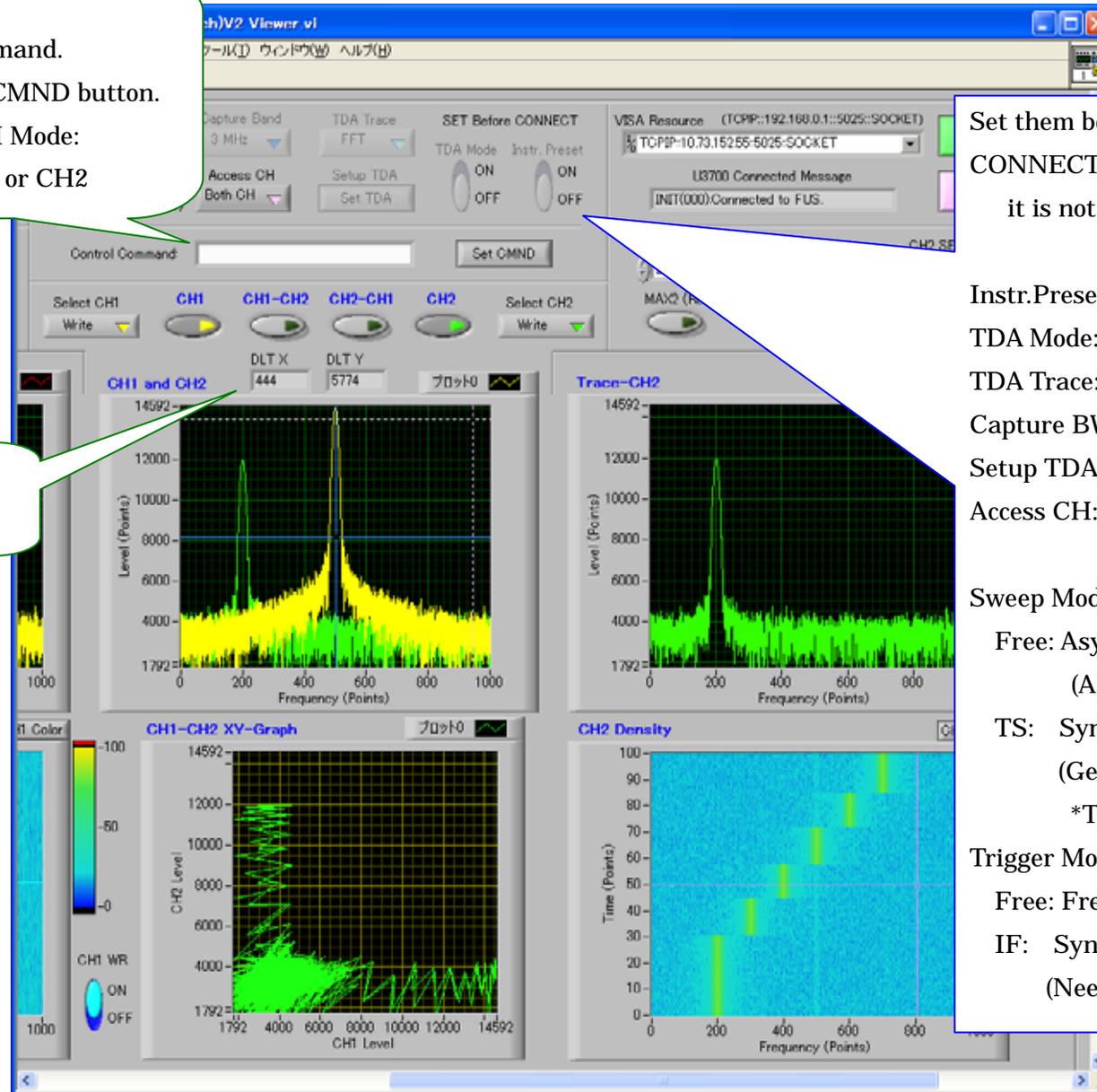
Input a GPIB command.

And push the Set CMND button.

\*Select Access CH Mode:

\*Both CH or CH1 or CH2

Display Delta X, Y  
(@Cursor position)



Set them before pushing the CONNECT button. (\*after connected, it is not possible to set it.)

Instr.Preset: SA is initialized.

TDA Mode: TDA Mode On/Off

TDA Trace: Select Measurement data

Capture BW: Select TDA BW

Setup TDA: Setup TDA mode to SA

Access CH: Select access CH

Sweep Mode

Free: Asynchronous Sweep

(Always getting)

TS: Synchronous Sweep

(Getting a data by sweep end)

\*Take Sweep

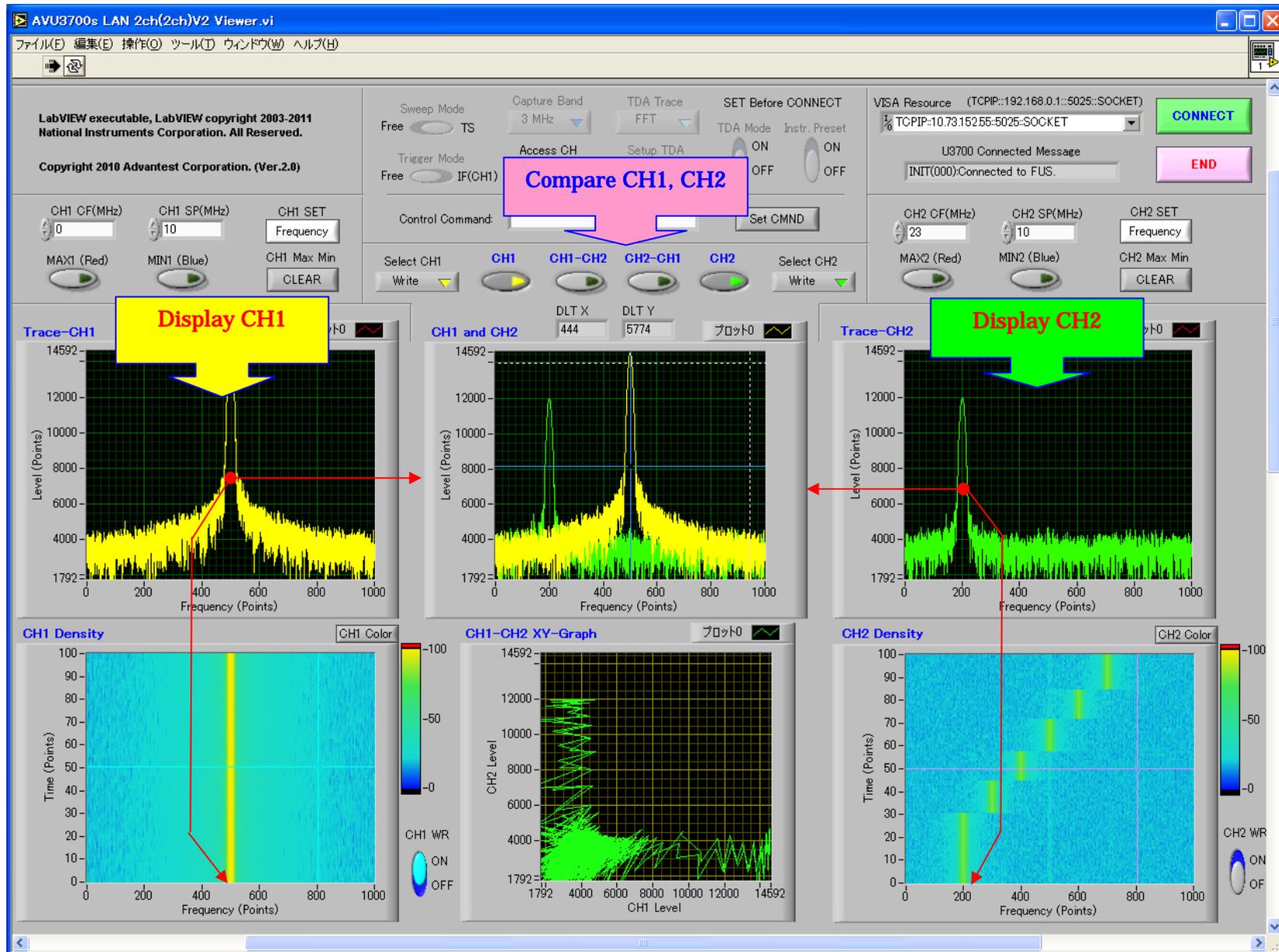
Trigger Mode

Free: Free Run

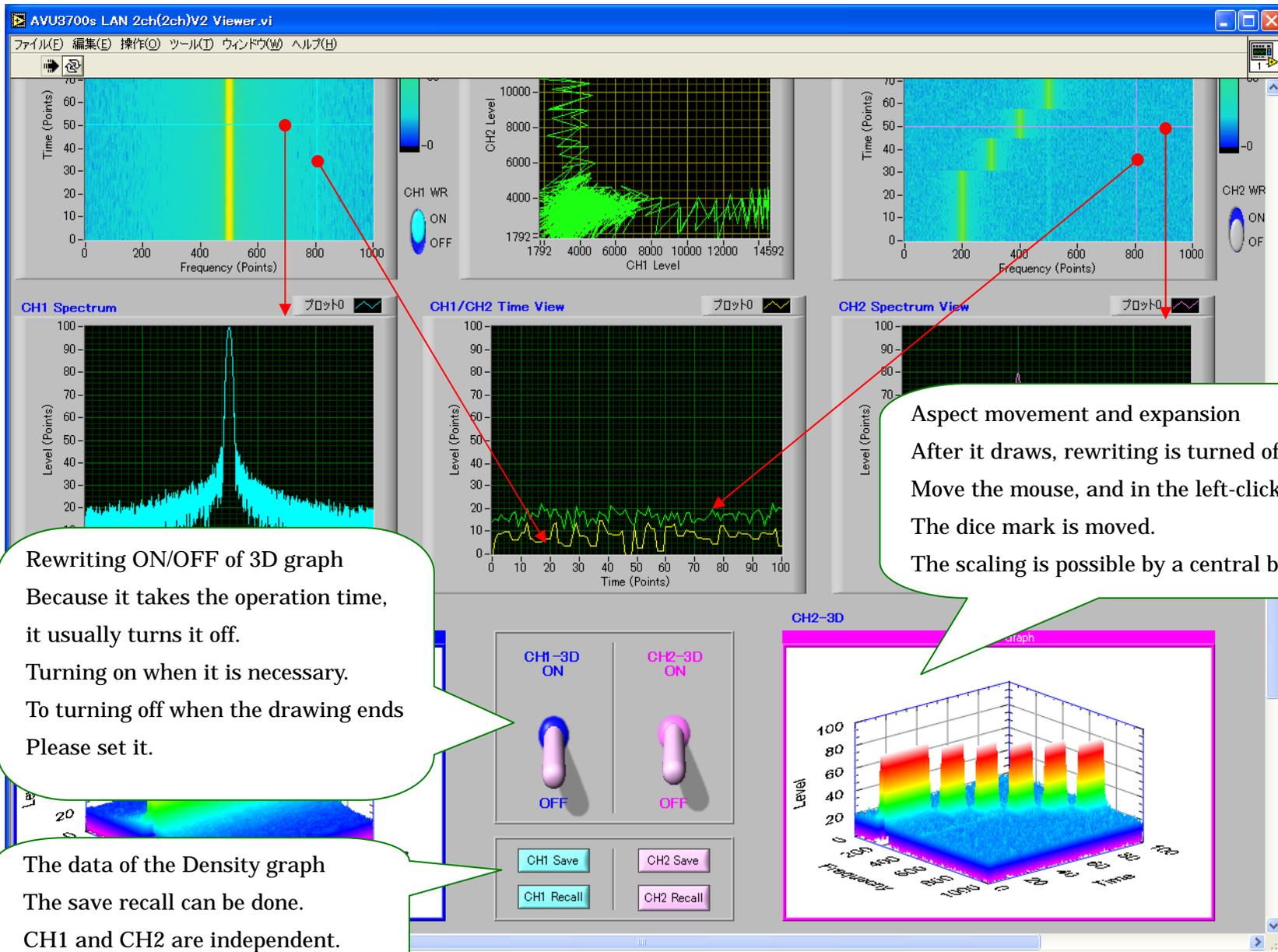
IF: Synchronous by IF

(Need a Burst Wave)

The screen is moved by the scroll bar like seeing the left side



The screen is moved by the scroll bar like seeing the lower side.



## Explanation of demonstration procedure and graph

- 1 . Internet Protocol address of SA is input. (Default is 192.168.0.1 that local connects SA. The cross cable is necessary. )
- 2 . CONNECT is pushed. The response from SA is displayed in the U3700 Connected Message frame at once.
- 3 . The initialization of SA is executed and a wave display will begin in 2-3 seconds.

(If not displayed, it ends once with X button and re-start this program ant the connection.)

- CH1 and CH2 graph      CH1 of SA is displayed and waveform data of the measurement of the independent of CH2 is displayed.  
Max and Min of waveform data can be displayed. (Operate it though it is not displayed.)  
The clearness of Max and Min operation data pushes a clear button when it is necessary.
- X-Y graph:              The level of CH1 in the same frequency is arranged and the level of the X axis and CH2 is arranged in Y axis.  
If CH1 is the same as CH2, it becomes the straight line of 45 degrees by  $y=x$ .  
When the frequency and the level of the signal are changed, the graph is changed.
- CH1 and CH2:              Waves of CH1 and CH2 can be compared in this graph. Waves of CH1 and CH2 can be selected,  
the addition subtraction can be done.
- Density:                      The spectrum is seen, and the signal intensity is seen on and a time change is seen with Y axis in the color.  
In this graph, there are X cursor and Y cursor, and the data of the part there is displayed in another graph.  
Y cursor is Spectrum View, and the spectrum at a certain time can be observed.  
X cursor can observe the level change in a certain frequency with the time base in Time View.  
Each cursor can be moved with the mouse. Moreover, slowly when you turn off rewriting when it is necessary  
It is possible to observe it. As for the data of this graph, "Save and Recall" can be done in each channel.
- 3D Graph:                      Each channel data can be observed by three dimensions. It somewhat takes time for the operation.  
Please turn off rewriting when rewriting the shape of waves ends. Moreover, the graph is changed by the mouse.