

**Ver.3.0**  
Advantest

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- The screenshot shows the AVS3700s LAN 2ch/3ch/2 Viewer v1 software interface. The interface is divided into several sections:
- Top Section:** Contains a "Re-start button" (a circular arrow icon), a "Connect button" (a green button labeled "CONNECT"), and an "End button" (a pink button labeled "END").
  - Trace Data Menu:** A section on the left with a dropdown menu to "Select CH1, CH2" and buttons for "Write", "Max", "Min", and "Clear".
  - Control Section:** Includes a "Control Command" input field, "Set CMD" button, and various status indicators for "CH1", "CH2", and "CH3".
  - Display Section:** Features three main plots: "CH1", "CH2", and "CH1-CH2 XY-Graph". Each plot has a "Frequency (Points)" x-axis and a "Level (Points)" y-axis. There are also "Density" plots for "CH1" and "CH2" with a color scale from -100 to 100.
  - Bottom Section:** Includes a "Rewriting ON/OFF of Density Graph" toggle switch.
- Red arrows point from the labels to the corresponding buttons and controls in the software interface.

SA direct control:

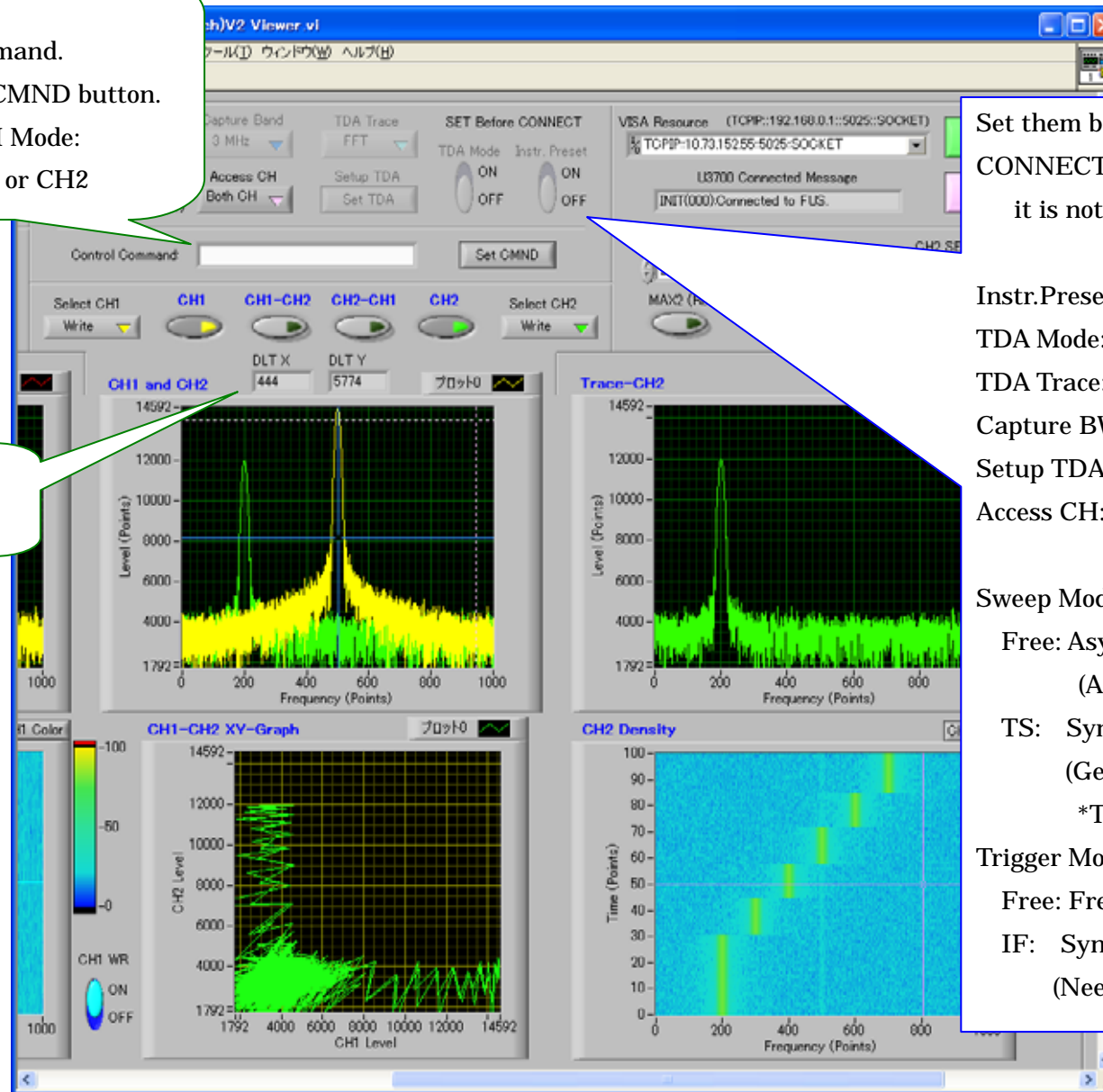
Input a GPIB command.

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

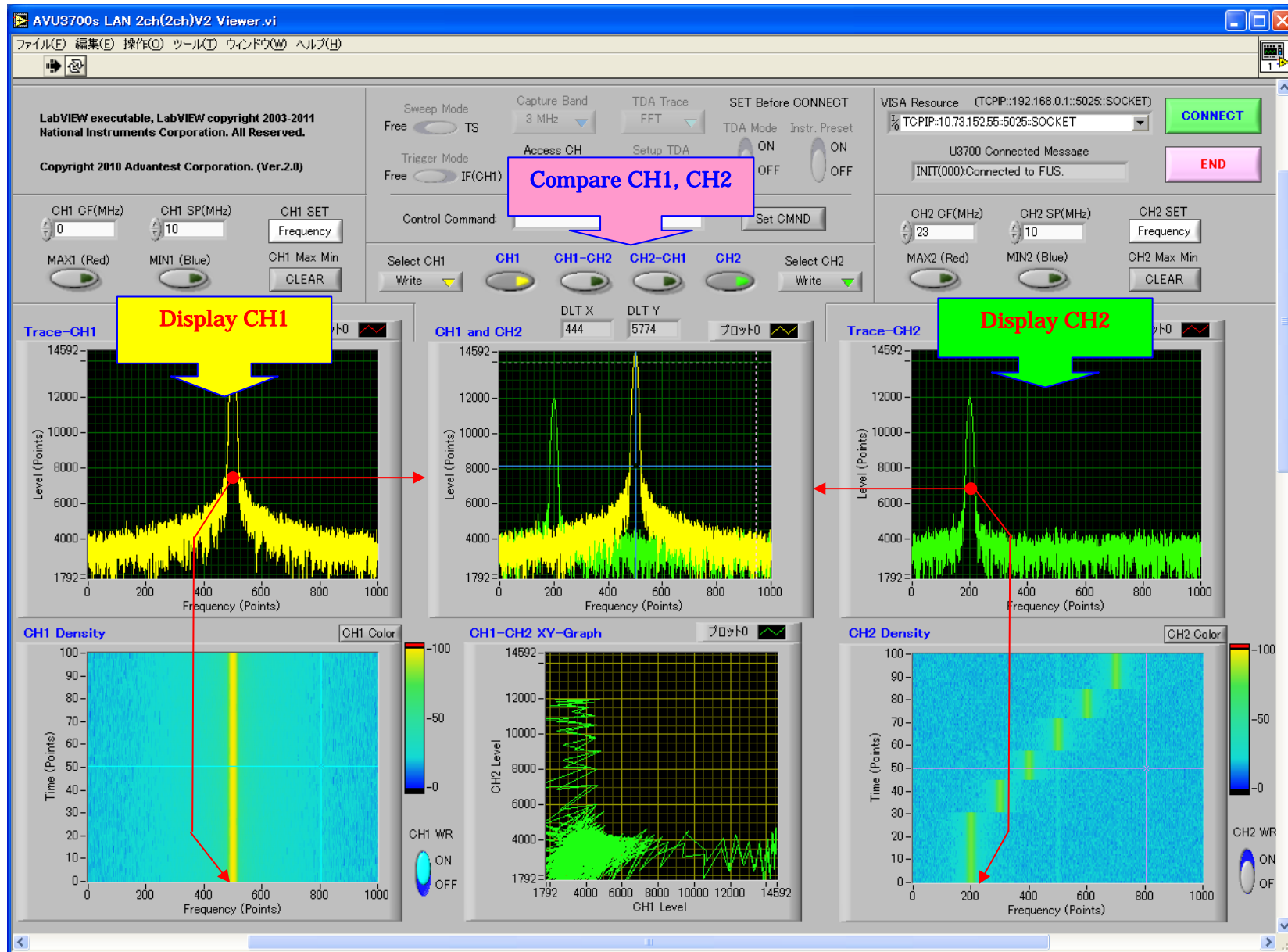
Trigger Mode

Free: Free Run

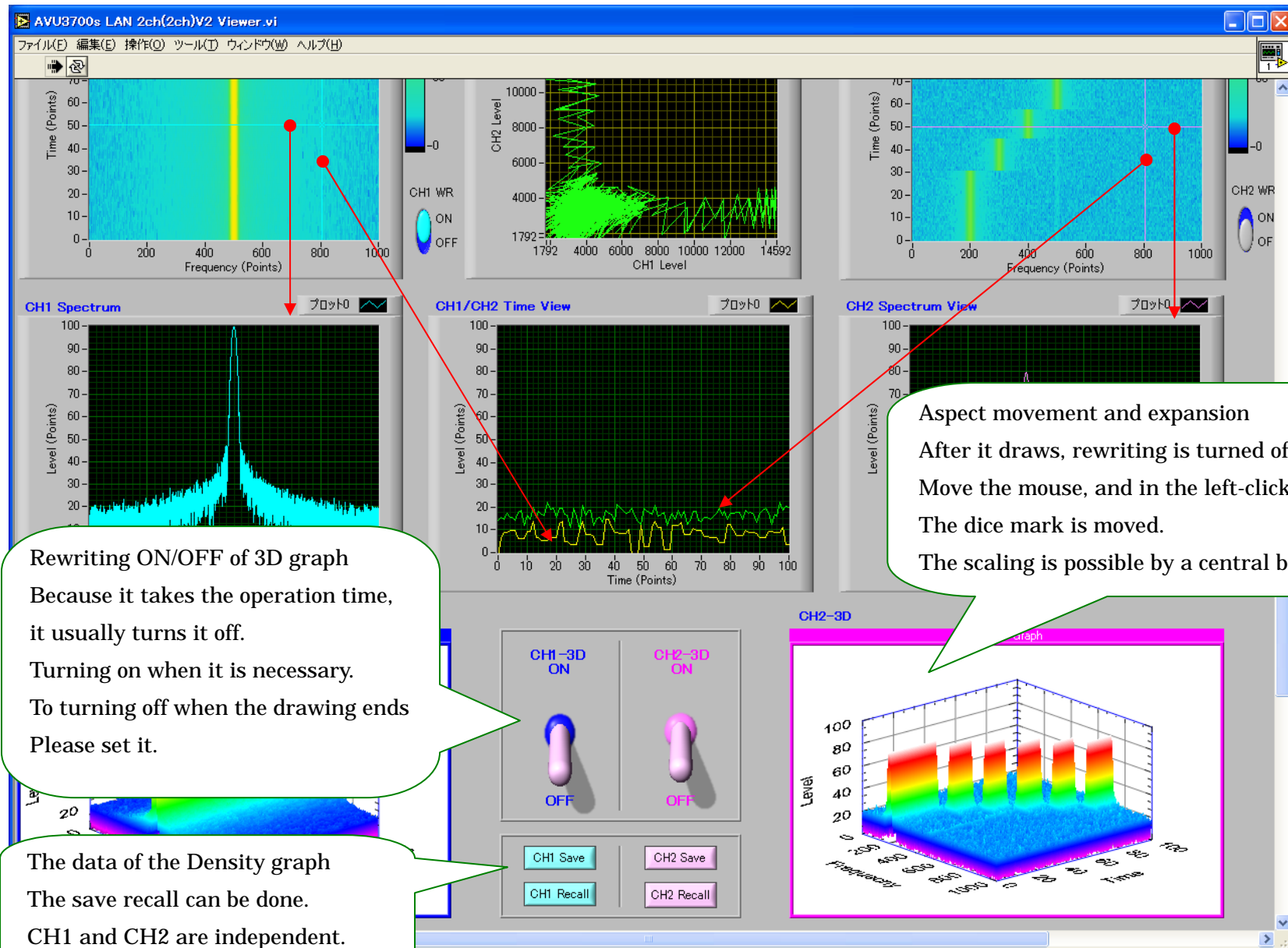
IF: Synchronous by IF

(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.