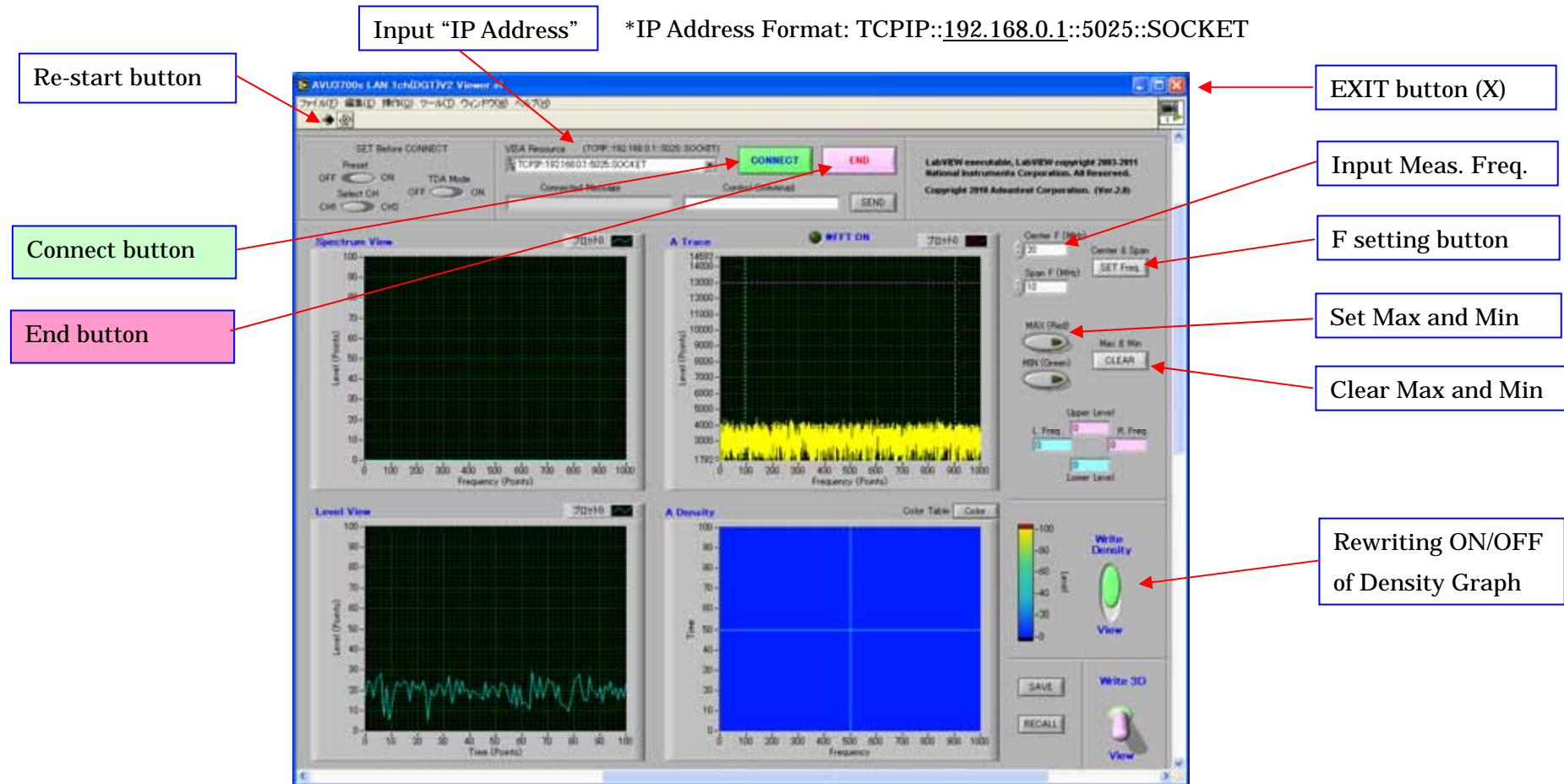


- 1 . The installation: Setup.exe in directory Installer is executed. (Operating conditions: Windows XP and Microsoft network, etc.)
- 2 . The Start: All Program → U3700 1ch(DGT) Graph Viewer → 1ch(DGT) Graph Viewer → execute.
- 3 . IP address of SA is confirmed, and it inputs it to the IP address column 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.

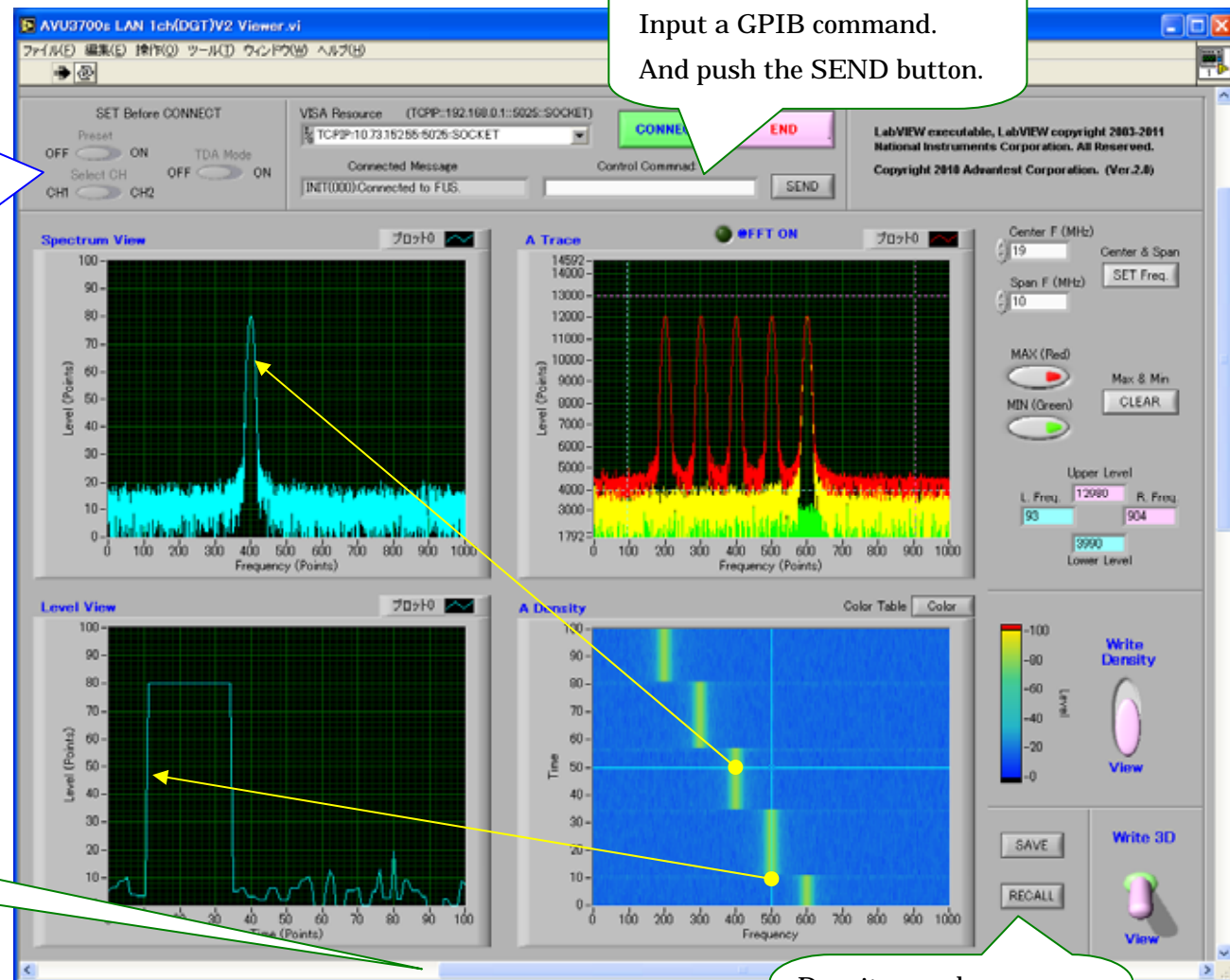


Set them before pushing the
CONNECT button.
(*After connected, it is not
possible to set it.)

Preset: SA is initialized.
FFT ON: Set FFT Mode
(OPT is necessary.)
Select CH: Select CH1 or 2
(@in 2ch SA)

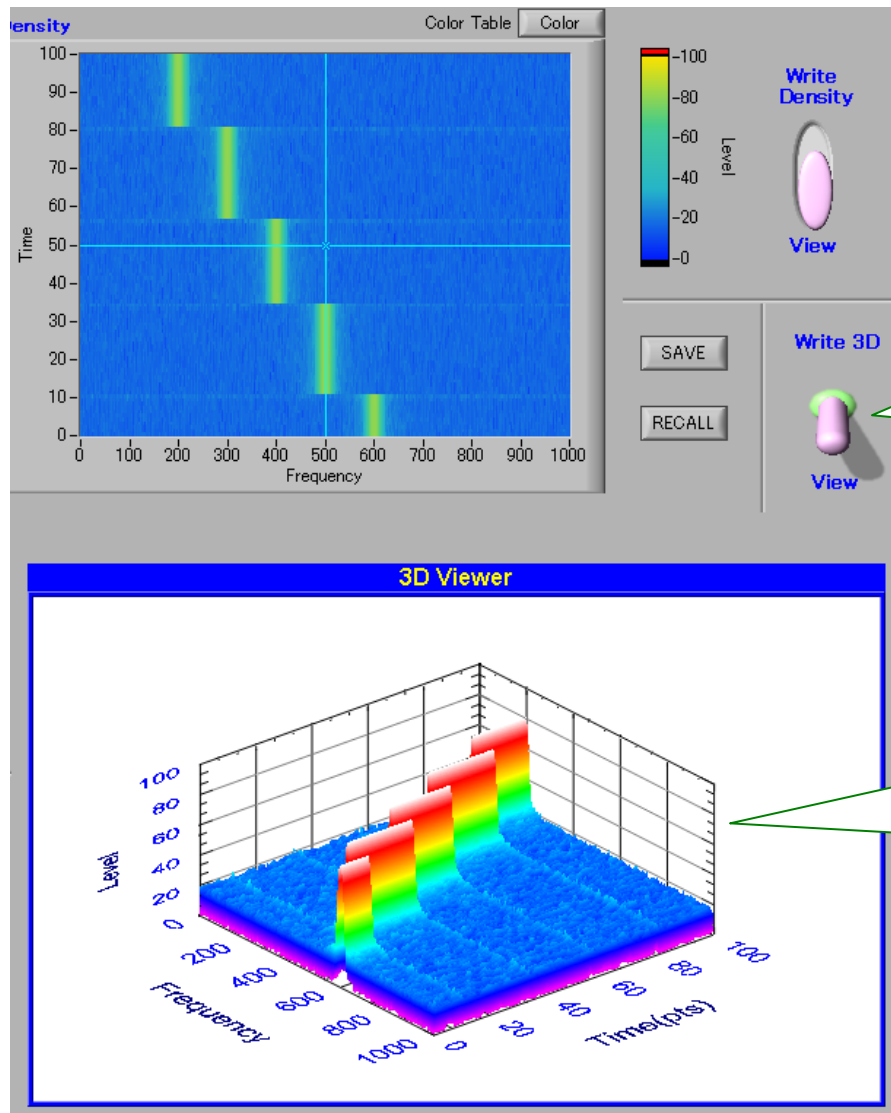
The display position is
adjusted by the scroll.

SA direct control:
Input a GPIB command.
And push the SEND button.



Density graph:
It can save for data file.
The recall can be done

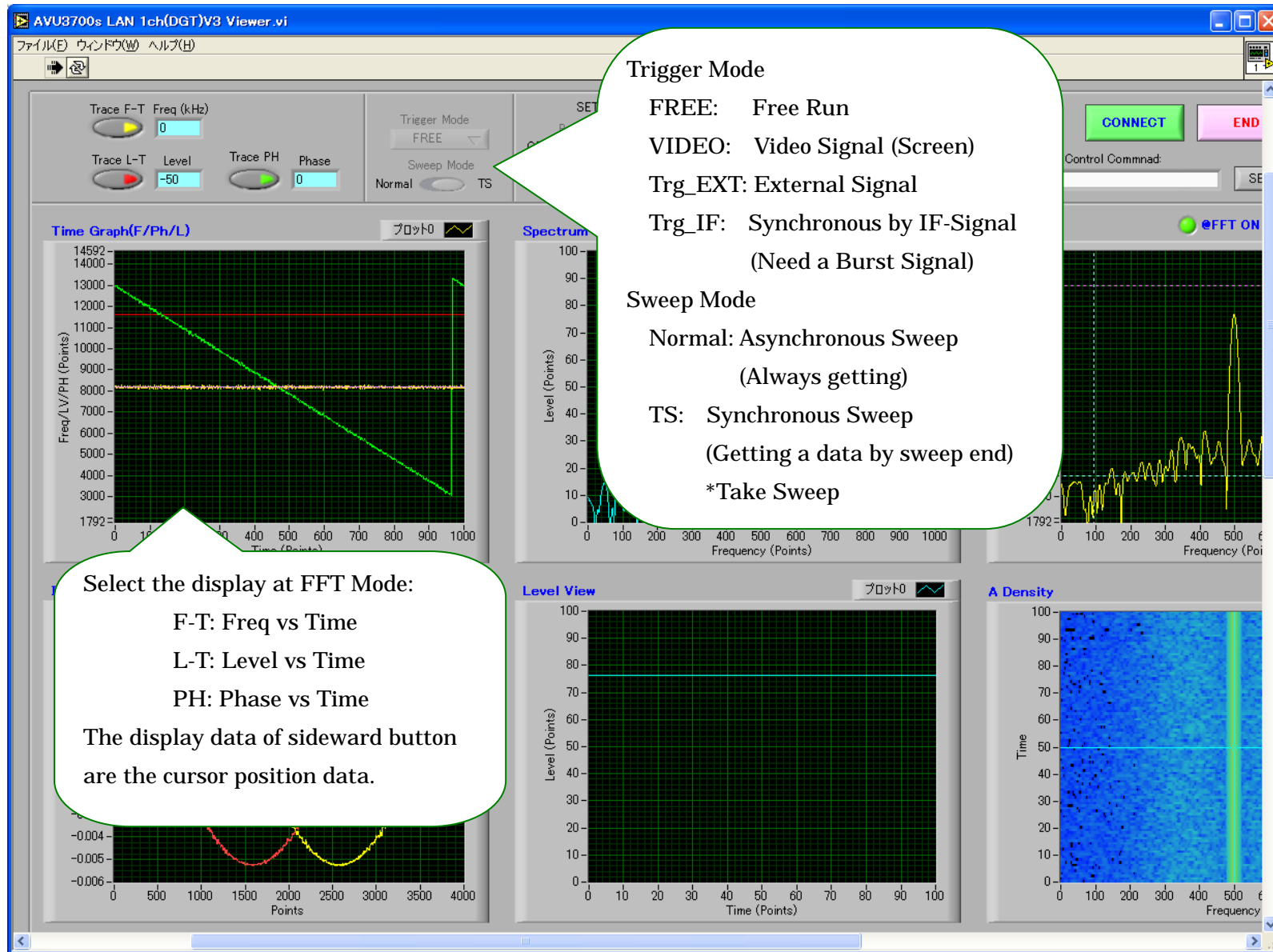
The screen is moved by the scroll bar like seeing the lower half.



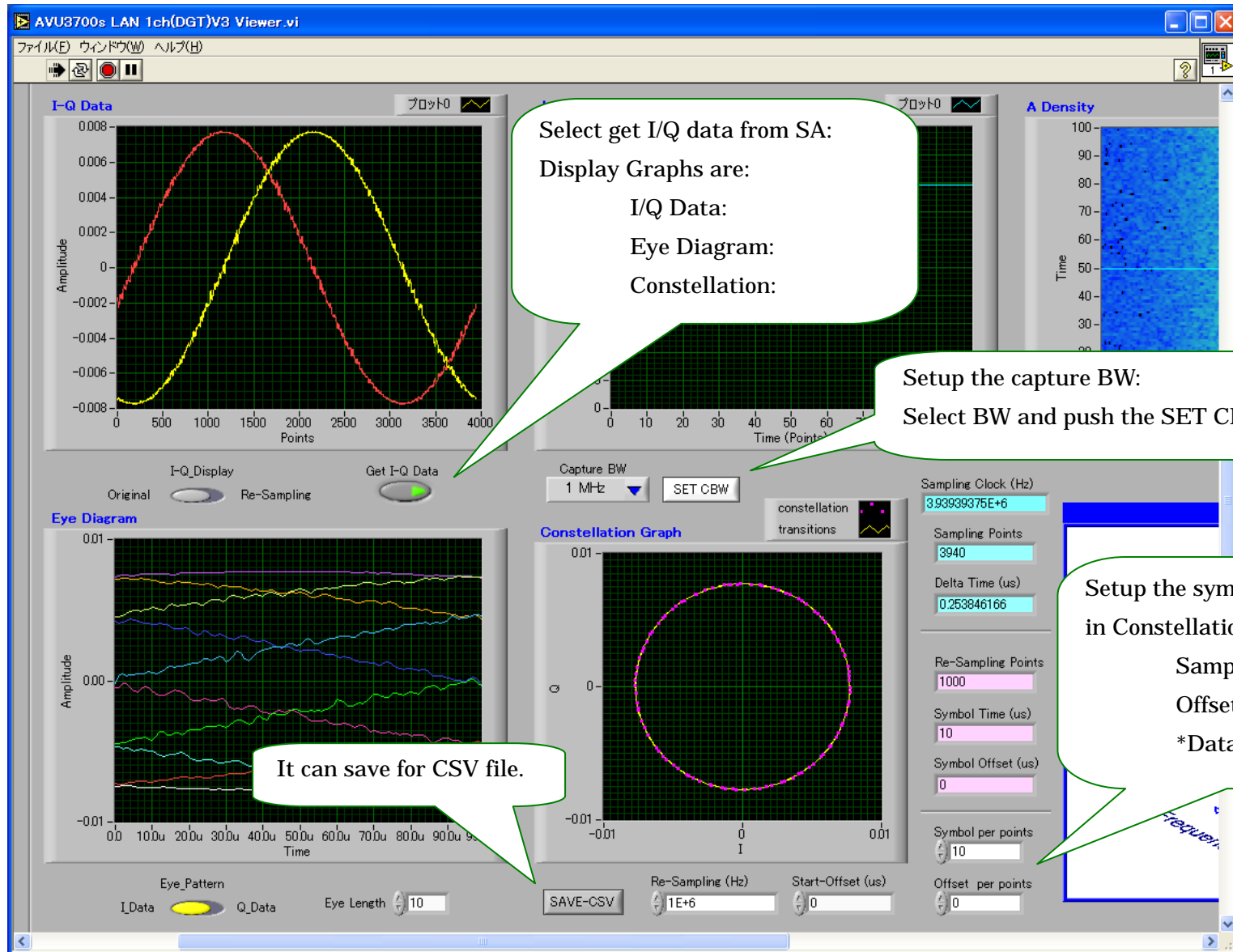
Rewriting ON/OFF of 3D graph
Because it takes the operation time,
it usually turns it off.
Turning on when it is necessary.
To turning off when the drawing ends
Please set it.

Aspect movement and expansion
After it draws, rewriting is turned off.
Move the mouse, and in the left-click
The dice mark is moved.
The scaling is possible by a central
button.

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



The screen is moved by the scroll bar like seeing the left 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 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.)

- A Trace: The waveform data of trace A of SA 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.
Moreover, four cursors have been put out with the sample. It is possible to move respectively with the mouse, and it is X at that time, and data of Y axis. However, it is displayed.
(The display is a number of points because of the sample.)
- Time Graph: The Time Domain Analysis data is displayed at the FFT mode.
F-T, PH-T, and L-T are displayed by condition of button. (it's individual or simultaneously)
Moreover, the cursor location data is displayed in the vicinity of each button.
(In L-T, (using Ref, dB/div) F-T, and PH-T are the cursor location data from Graph Center Position.)
- 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 the Recall" can be done.
- 3D Graph: Waveform data can be observed by three dimensions. Because it somewhat takes time for the operation, rewriting the shape of waves that wants to be observed.
Please turn off rewriting when ending. Moreover, the aspect angle and the size are re-write because of the mouse.

IQ Data CSV File Format

ADVANTEST-SPA: IQ-Data

Center Frequency	20.001	
Capture BW	4	
ORG-Sampling Clock	3939393.75	
ORG-Sampling Points	3940	
Re-Sampling Clock	1000000	
Re-Sampling Points	1000	
Re-Start-Ofs	0	
IQ-Scale	2.904123068	
Original_IQ		

0.001448	-0.007574
0.001411	-0.007585
0.001357	-0.0076
0.001309	-0.007614
0.001281	-0.007622
0.001277	-0.007623
0.001293	-0.007617
0.001327	-0.007608

Re-Sampling_IQ

0.001448	-0.007574
0.001281	-0.007622
0.001367	-0.007599
0.001413	-0.00759
0.001328	-0.007615
0.001206	-0.007614
0.001042	-0.007667
0.000993	-0.007666
0.001001	-0.007648

(MHz)	0	40MHz
(Code)	1	30MHz
(Hz)	2	10MHz
(Points)	3	3MHz
(Hz)	4	1MHz
(Points)	5	300kHz
(us)	6	100kHz
(V)	7	30kHz
	8	10kHz
	9	3kHz
	10	1kHz
	11	300Hz
	12	100Hz

Original IQ



(N Points)

Re-Sampling IQ Data



(N Points)