ΟΝΟ ΣΟΚΚΙ

DS-0321 FFT Analysis Software

Operation manual Basic operation procedure for Configuration Setting

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The Configuration window is used to make various settings and operations of the DS-0321 FFT Analysis Software. All the settings required for measurement and analysis are included in "Configuration". The "Configuration" window can be opened from the menu bar or from the pop-up menu displayed by right-clicking on the graph window.

This instruction manual describes basic operations of Configuration taking Input/Output Setting for example.

Pay attention to marks $\lceil \mathbf{v} \rfloor$ or buttons displayed.

Operations allow you to double-click.

Functions of other setting items are not described in this manual. For details on the other functions, refer to the separate simplified manual.

Operation Flow

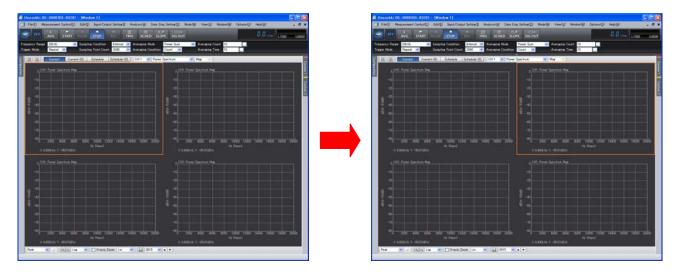
- -1 Displaying the initial screen
- -2 Displaying the Configuration Window
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- -4 Adjusting the Configuration Window Width and restoring Configuration window
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Operation Procedure

1. Displaying the initial screen

- ① The following screen will be displayed when you open the DS-0321 at the first time.
- ② When you click data part in the screen, it is enclosed with orange box lines to show that it is active, called active screen. The settings in the "Configuration" window are reflected in the active screen.

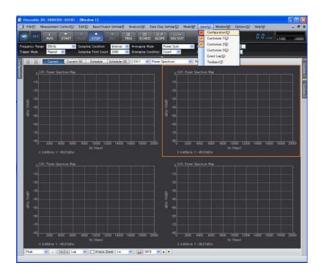


- When you click in the graph, it is enclosed with orange box lines to show that it is active.
- The settings in the "Configuration" window are reflected in the active screen partition, except for the measurement items related to all the channels, including the frequency and voltage ranges.
- No operations are permitted on some items unless the system is in the "STOP" state. For example, the character string indicating the average number of process times grays out during averaging measurement, meaning that the setting is unchangeable.

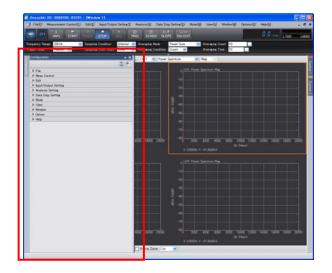


2. Displaying the Configuration Window

① Click "View" > "Configuration" from the Main menu to open the "Configuration" window.



② "Configuration" window is displayed.





<Remarks>

Open/Close (►) button	[▶] means there are more details about the item. Double-click to open, and double-click again to
	close.
(∇) button	$[\nabla]$ means there are details about the items. Click the character item to open.
Exec	Click to execute the command.
Open	Click to show the dialog box for detailed condition setting.
	Click to switch ON and OFF
	: OFF state
	: ON state
	Click to switch ON and OFF
	: OFF state
	: ON state
	Click to show one of the following dialog box.
	 To open a folder : shows [Browse For Folder] dialog box.
	 To open a file : shows [Open] dialog box
	To input text : shows [Text Input] dialog box
	To input numeric value : shows [Numeric Input] dialog box.

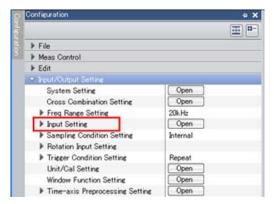
3. Basic operation of Configuration setting

-1. Input setting

① Double-click [▶ Input/Output Setting] in [Configuration] to open Configuration window. [▶] means there are more details about the item. To close the [Input/Output Setting] window, double-click again.

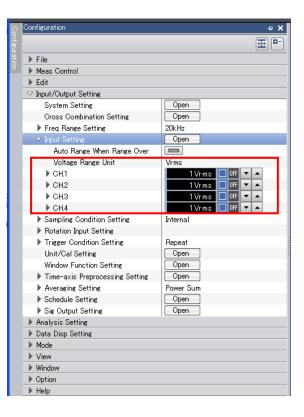
8	Configuration -= 🗙
onfiguration	
atio	▶ File
ă.	Meas Control
	▶ Edit
	Input/Output Setting
L '	Analysis Setting
	Data Disp Setting
	Mode
	▶ View
	Window
	Option
	▶ Help

② Double-click the [► Input/Output Setting] to open the underlying detailed item.

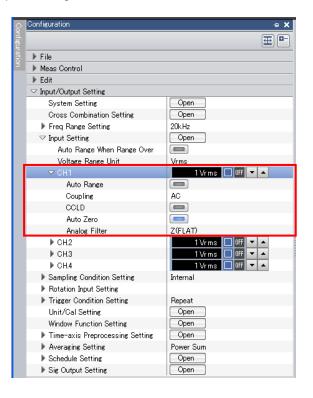




In the window of detailed item, ▼ or ▲ button allows to change the setting.
 Current setting is displayed in the right column.



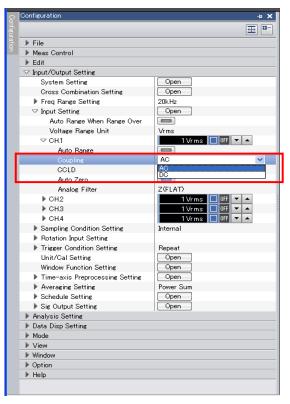
④ Click [\triangleright CH1] to open setting window.





5 Click [Coupling] allows to select input coupling [AC] or [DC]. When [CCLD] in the [Coupling] is ON, only [AC] is selectable. (The input of [CCLD] should be [AC].)

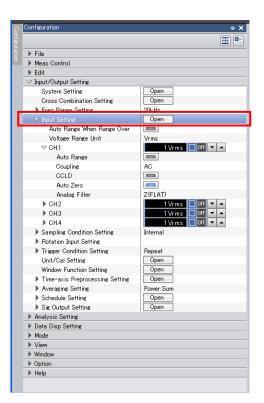
Please note that it may have this kind of restriction on other setting.



To enable [CCLD] input, click button on the right column. button is replaced (6)and DC24V/4mA is supplied to the CCLD applicable detector. (CCLD input is ON.) This function is used for accelerometer that is applicable to CCLD. Click button again to turn OFF the [CCLD] input. The [CCLD] and [Auto zero] are ON in the following figure.

8	Configuration	+ X
		⊕ ⊕
	▶ File	
	Meas Control	
	▶ Edit	
	⊂ Input/Output Setting	
	System Setting	Open
	Cross Combination Setting	Open
	Freq Range Setting	20kHz
	∽ Input Setting	Open
	Auto Range When Range Over	
	Voltage Range Unit	Vrms
	♥ CH.1	1 Vrms 🔲 🗖 💌 🔺
	Auto Range	
	Coupling	AC
	COLD	
	Auto Zero	
	Analog Filter	Z(FLAT)
	▶ CH.2	1 Vrms 🔲 Off 💌 🔺
	▶ CH.3	1 Vrms 🔲 Off 💌 🔺
	▶ CH.4	1 Vrms 🔲 Off 💌 🔺
	Sampling Condition Setting	Internal
	Rotation Input Setting	
	Trigger Condition Setting	Repeat
	Unit/Cal Setting	Open
	Window Function Setting	Open
	Time-axis Preprocessing Setting	Open
	Averaging Setting	Power Sum
	Schedule Setting	Open
	Sig Output Setting	Open

⑦ To change setting on [CH1] to [CH4], click [Open] button in [Input Setting] window. [Input Condition Setting] window is opened and the settings from [CH1] to [CH4] can be changed at once.



	Auto Range	Voltage Range	Coupling	CCLD	Auto Zero	Analog Filter
CH1		1 Vrm s 🚩	AC 🔽		~	Z(FLAT)
CH2		1 Vrm s 🚩	AC 🔽		V	Z(FLAT)
C H3		1 Vrm s 🚩	AC 🔽		V	Z(FLAT)
CH4		1 Vrm s 🚩	AC 🔽		V	Z(FLAT)
ns 🔻	🗌 Auto Ra	nge When Range (Set to All CH

-2. Setting frequency range

① To set frequency range, click [Input/Output Setting]> [Freq Range Setting]. A right column shows the frequency range currently set. Click the right button of the column to select frequency range from the pull-down menu. [20 kHz] is selected in the following example.

Configuration	4 х	Configuration	д Х
			⊕ 🕀
▶ File		▶ File	
▶ Meas Control		Meas Control	
🕨 Edit		▶ Edit	
∽ Input/Output Setting		∽ Input/Output Setting	
System Setting	Open	System Setting	Open
Cross Combination Setting	Open	Cross Combination Setting	
Freq Range Setting	20kHz 💌	Freq Range Setting	20kHz 💌
Input Setting	Open	▶ Input Setting	20k Hz
Sampling Condition Setting	Internal	Sampling Condition Setting	8kHz
Rotation Input Setting		Rotation Input Setting	5kHz 🗧
Trigger Condition Setting	Repeat	Trigger Condition Setting	2.5kHz =
Unit/Cal Setting	Open	Unit/Cal Setting	2kHz 1.6kHz
Window Function Setting	Open	Window Function Setting	1kHz
Time-axis Preprocessing Setting	Open	Time-axis Preprocessing Setting	800Hz 500Hz
Averaging Setting	Power Sum	Averaging Setting	400Hz
Schedule Setting	Open	Schedule Setting	320Hz
Sig Output Setting	Open	Sig Output Setting	250Hz 200Hz
Analysis Setting		Analysis Setting	160Hz 💌
Data Disp Setting		Data Disp Setting	
🕨 Mode		▶ Mode	
▶ View		▶ View	
▶ Window		Window	
Option		▶ Option	
▶ Help		🕨 Help	



-3. Setting the number of averaging times

- Double-click [Input/Output Setting]>[► Averaging Setting] to see detailed items. [Averaging Count] shows the number of averaging time currently set.
- ② To change the number of averaging time, click the right 🔲 button of the column. Since [Numeric Input] dialog box opens, key in the numerical value to set.

Configuration	д х	1		
	⊞ □-			
▶ File				
Meas Control				
▶ Edit				
∽ Input/Output Setting			Numeric Input	
System Setting	Open			
Cross Combination Setting	Open		10	
Freq Range Setting	20kHz			
Input Setting	Open			
Sampling Condition Setting	Internal		7 8 9 Back	C
Rotation Input Setting				-
Trigger Condition Setting	Repeat			
Unit/Cal Setting	Open		4 5 6	
Window Function Setting	Open			
Time-axis Preprocessing Setting	Open			
	Power Sum		1 2 3	
Averaging Partway Value	0/10			
Averaging Condition	Count	L,		
Averaging Count	10		0 +/- ОК	Cancel
Hveraging Time	105	₽		
Exponential Averaging Weight	10			
Undo Averaging				
Start Time Overlap 0%				
Sweep Synchronized with Sig Ou				
Sweep CH	CH1			
Schedule Setting	Open			
Sig Output Setting	Open			

-4. File Setting

Click [Configuration] window > [►File] >[Project File] > [New Project] > Exec. The window currently displaying is closed, and a window opens as a new project (measurement condition: initial setting).

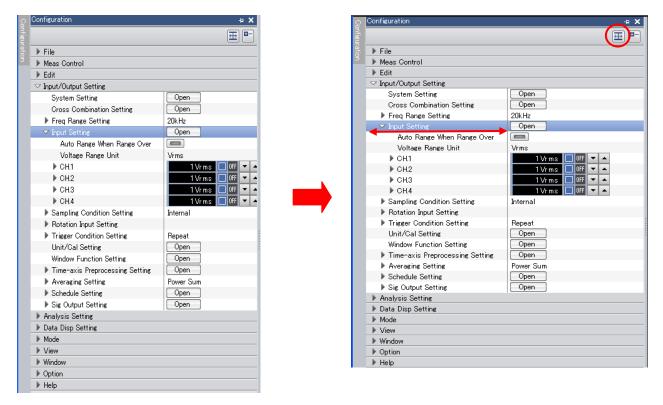
Configuration	Р Х
∽ File	
✓ Project File	
New Project	Exec
Upen Project	Üpen
Save Project	Open
Project Setting	C:¥Documents and Settings¥All Users¥D
🕨 Meas Data File	
Record File	
Open Offline Analysis Data	Open
Print	
Exit	Exec
Meas Control	
▶ Edit	
Input/Output Setting	
Analysis Setting	
Data Disp Setting	
▶ Mode	
▶ View	
Window	
Option	
▶ Help	



4. Adjusting the Configuration Window Width and restoring Configuration window

-1. Adjusting the Configuration Window Width

Place a mouse over the line to show column width adjustment mark. The column can be adjusted by dragging the line so that you may like. A click of the top-right an [Automatic display size adjustment button] adjusts the left column automatically.



-2. Restoring

Clicking the "Store" button (🛄) stores all expanded items. Double-click the shown item to hide it.

To hide all showing items, click the 🔤 button. If too many items are shown and cannot be displayed in a screen, hide all items and then show only required items.

Configuration	ч X
	⊕ -•
▶ File	
▶ Meas Control	
▶ Edit	
▶ Input/Output Setting	
Analysis Setting	
Data Disp Setting	
▶ Mode	
▶ View	
Window	
Option	
▶ Help	



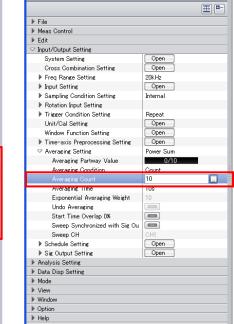
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5. Summary of [Configuration] window basic operation

① You can see many kinds of buttons (ON/OFF button, selection button, key-in button, and Exec button etc.) and current conditions you have set when you open all the underlying items in the [Configuration] window.

Configuration	Р X
▶ File	
▶ Meas Control	
▶ Edit	
✓ Input/Output Setting	
System Setting	Open
Cross Combination Setting	Open
Freq Range Setting	20kHz
Input Setting	Open
Sampling Condition Setting	Internal
Rotation Input Setting	
Trigger Condition Setting	Repeat
Unit/Cal Setting	Open
Window Function Setting	Open
Time-axis Preprocessing Setting	Open
Averaging Setting	Power Sum
Schedule Setting	Open
Sig Output Setting	Open
Analysis Setting	
Data Disp Setting	
▶ Mode	
▶ View	
▶ Window	
Option	
▶ Help	

Configuration	
	⊞ =
▶ File	
Meas Control	
▶ Edit	
▽ Input/Output Setting	
System Setting	Open
Cross Combination Setting	Open
Freq Range Setting	20kHz
Input Setting	Open
Sampling Condition Setting	Internal
Rotation Input Setting	
Trigger Condition Setting	Repeat
Unit/Cal Setting	Open
Window Function Setting	Open
Time-axis Preprocessing Setting	Open
✓ Averaging Setting	Power Sum 🔽
Averaging Partway Value	0/10
Averaging Condition	Count
Averaging Count	10
Averaging Time	10s
Exponential Averaging Weight	10
Undo Averaging	
Start Time Overlap 0%	
Sweep Synchronized with Sig Ou	
Sweep CH	CH1
Schedule Setting	Open
Sig Output Setting	Open
Analysis Setting	
Data Disp Setting	
▶ Mode	
▶ View	
Window	
Option	
Help	



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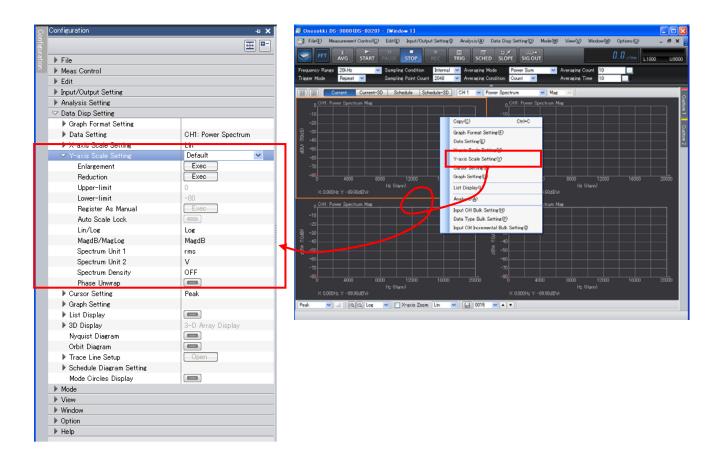
The left above shows the condition that [Averaging Setting] > [Power Sum] is set.

The middle one shows the details of [Averaging Setting].

The right one shows the condition of [Averaging count] that is set to "10" with [Numeric Input] dialog box (key in button).



② Right-click on a data graph opens a pop-up menu. Click an item in the pop-up menu to open the details of the setting in the Configuration window.



Operational procedure of [Configuration] is basically same manner in the DS-3000 series. Through understandings of [Configuration] helps the use of the DS-3000 series. For details of each setting item, see another operation manual.