

Operation Manual

PROFESSIONAL POWER AMPLIFIER DSA-SERIES



Contents

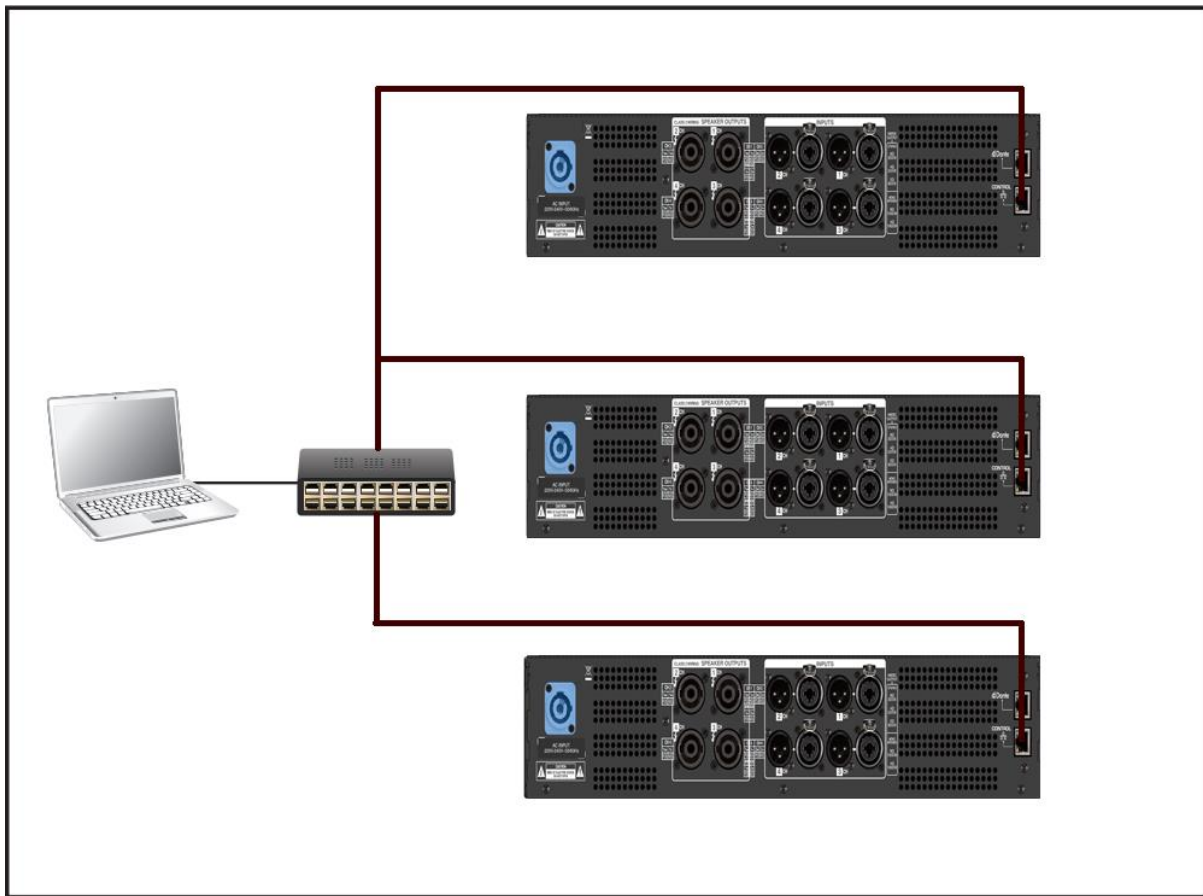
Features	1
System Configurations.....	2
Setting Up Devices	3
1. Connecting the Network.....	3
2. Confirming the Network Connection.....	3
Wiring the Device	4
1. Connecting Communication Cables.....	4
Installing and Starting the Program.....	5
I . Installing the Program.....	5
II. Starting the Program.....	9
Using the Program	10
I . GUI Screen Configuration.....	10
II. Configuration.....	14
III. Input PEQ.....	20
IV. Filter/Crossover.....	23
V . Output PEQ.....	25
VI. Peak Limiter	28
VII. Setup.....	30

Features

- 1) High-powered, high-capacity 4-channel Class-D Power Amplifier
- 2) DANTE Audio Network Transmission Solution
- 3) Built-in high-performance DSP engine
- 4) Remote-control control function
- 5) OLED screen at the front
- 6) Simple cleaning instructions for the dust filter
- 7) Perfect protection circuit
- 8) Switch Mode Power Supply (SMPS) technology
- 9) Powerful sound quality and delicate sound control
- 10) Status-indicating LEDs
- 11) XLR analog Audio Input/Link

System Configurations

DSA-500Q/2000Q System is configured as given in the following diagram.



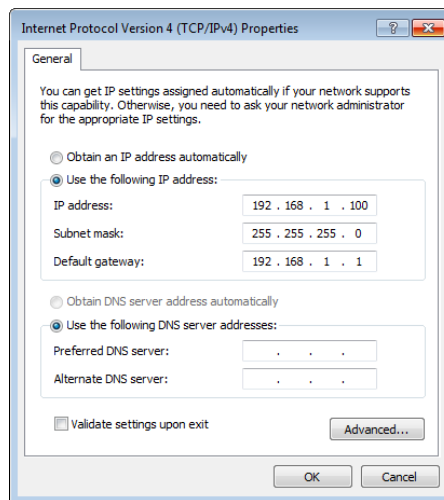
Setting Up Devices

Connect the DSA-500Q/DSA-2000Q and the personal computer (PC) to a hub. The factory default IP of DSA-500Q/DSA-2000Q is 192.168.1.99.

(For instructions on setting up the IP of the device, please refer to the manual of this device.)

1. Connecting the Network

- 1) Change the IP of the PC so that it matches the Network ID of the device. (e.g., 192.168.1.100)
(Range of Use for the IP Address: 192.168.1.2–192.168.1.254, Subnet Mask: 255.255.255.0)

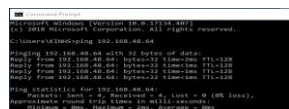


- 2) Check the IP address of the DSA-500Q/DSA-2000Q. (Factory Default IP: 192.168.1.99)
- 3) Connect the Ethernet port on the backside of the DSA-500Q/DSA-2000Q and the hub.
- 4) Connect the Ethernet port on the PC and the hub.
- 5) Run a Ping test to check the network connection between the device and the network.

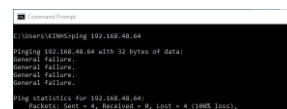
2. Confirming the Network Connection

- 1) Refer to the instructions above on connecting to the network and finish setting up the network. Once the network is connected, run the command prompt (cmd.exe).
- 2) Input "ping 192.168.1.99 -t" in the command window and then press the Enter key.
- 3) Once the test is complete, press Ctrl+c.

[Network Connection Successful]



[Network Connection Unsuccessful]



- 4) When the network connection is established successfully, install the DSA-500Q/DSA-2000Q program and then add your device using the Setup menu of the program. For detailed instructions, please refer to VII. Setup instructions on page 30 of this manual.

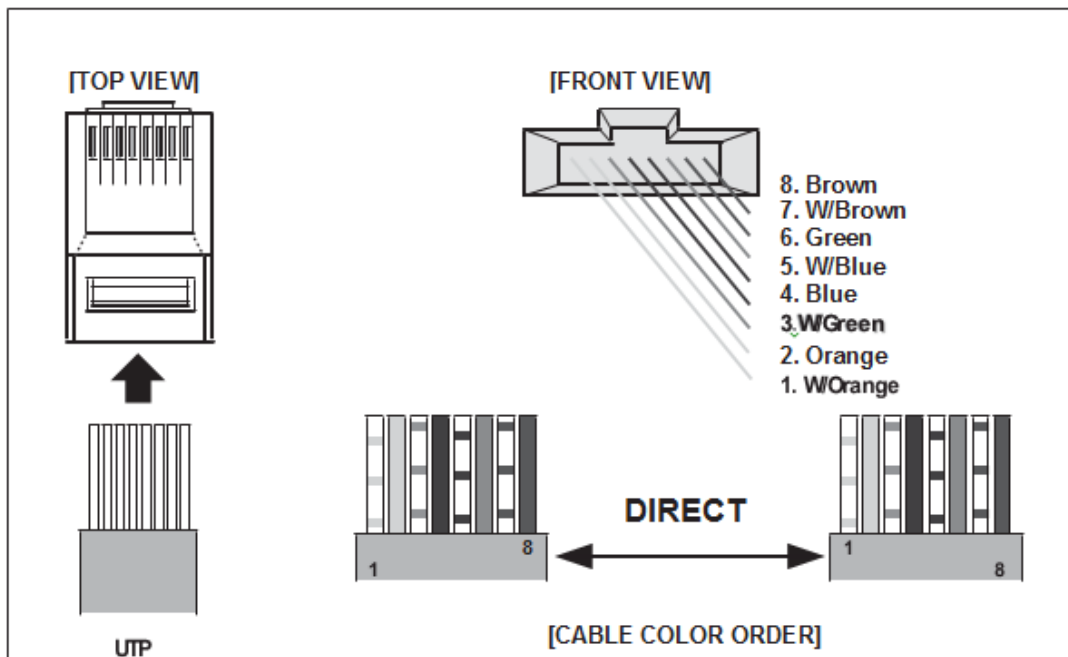
Wiring the Device

※ Installation Precautions

Do not connect wires or communication cables when the device is turned on. It may cause malfunction of the device (ex. loss of communication).

1. Connecting Communication Cables

Connect all the terminals with CAT5 cable as displayed in the following image given below.



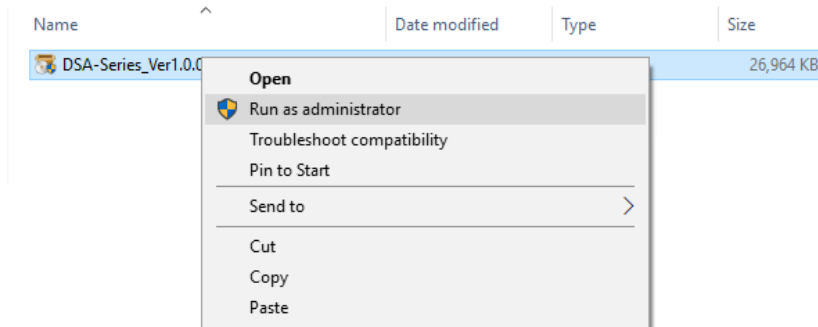
※ Caution

- 1) When preparing CAT5 cables, make sure that the color order matches in direct type.
- 2) Particularly, since you must use a twisted cable for DATA cable, you should match the order and color carefully.

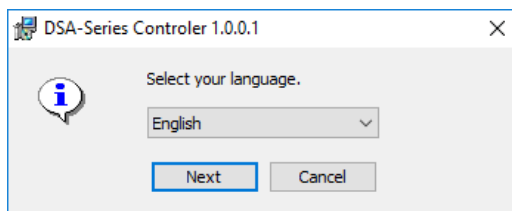
Installing and Starting the Program

I. Installing the Program

- ① Right-click your mouse inside the setup file and then select the Run this Program as an Administrator option.



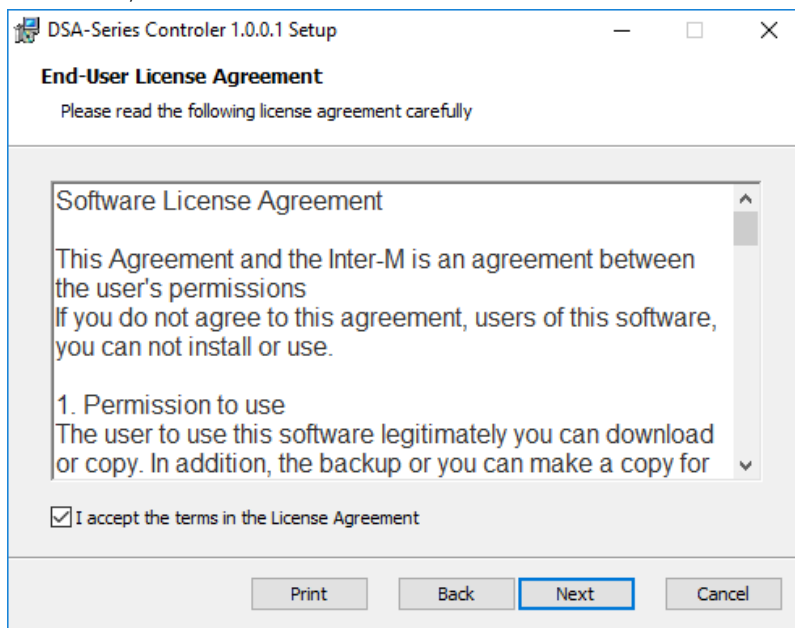
- ② When the following window appears, select your language from the drop-down list and then click Next.



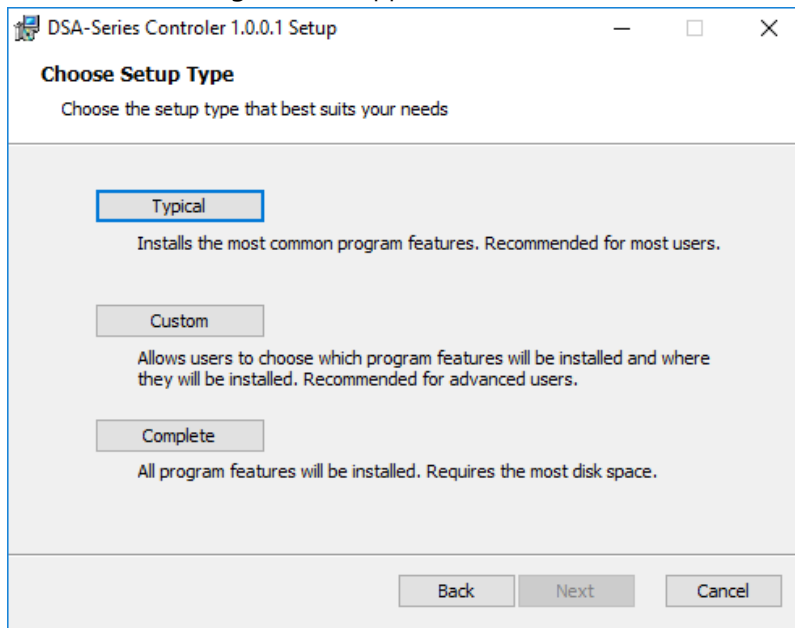
- ③ When the following window appears, click Next.



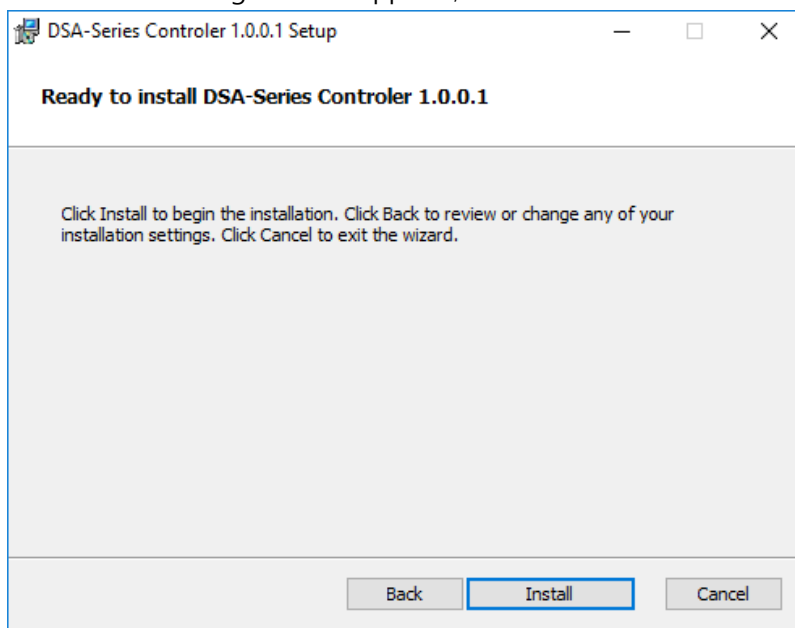
- ④ When the following window appears, check the software user license, select the Agree check box, and then click the Next button.



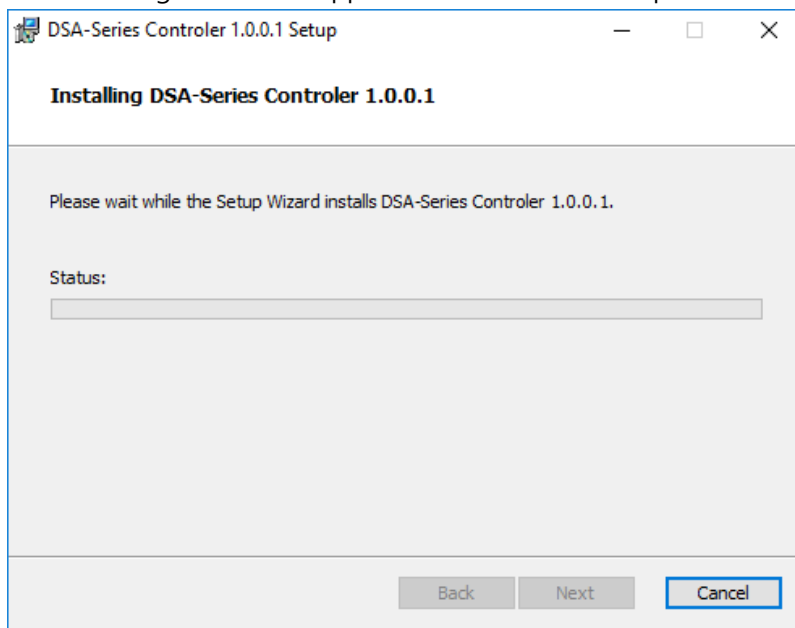
- ⑤ When the following window appears, click Standard Installation.



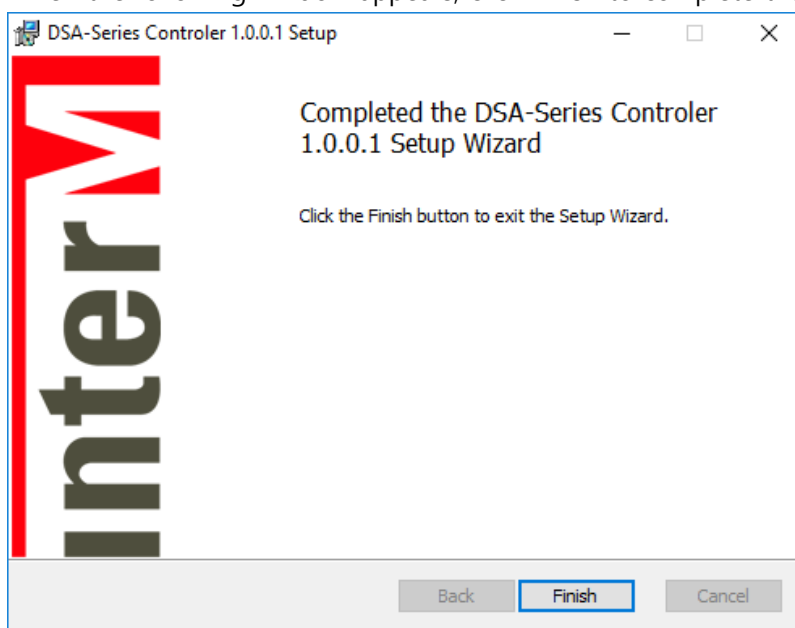
- ⑥ When the following window appears, click Install.



- ⑦ The following screen will appear and the installation process will begin.



- ⑧ When the following window appears, click Finish to complete the installation process.



※ Program Setup Folder

- (1) Windows 32-bit: C:\Program Files\Inter-M\DSA-Series Controller
- (2) Windows 64-bit: C:\Program Files (x86)\Inter-M\DSA-Series Controller

※ Executable (.exe) File

- (1) Windows 32-bit: C:\Program Files\Inter-M\DSA-Series Controller\DSA-Series.exe
- (2) Windows 64-bit: C:\Program Files (x86)\Inter-M\DSA-Series Controller\DSA-Series.exe

II. Starting the Program

- 1) Running the program



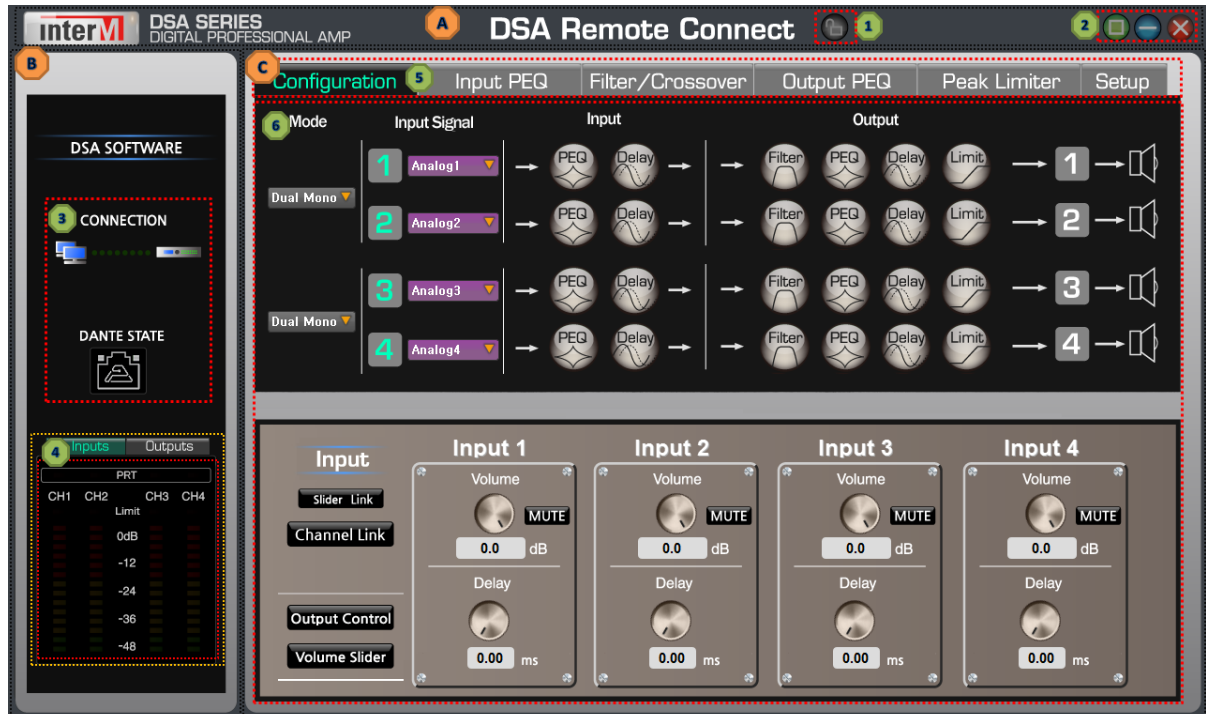
Double-click the icon on your desktop.

- 2) Setting up a network IP address for the device:

Please refer to instructions on setting up devices on page 3 of this manual to set up your network before using this program.


Using the Program

I . GUI Screen Configuration



A Main Title Bar: Displays the main title of the program

1 Log-in/Lot-out Button: You can log-in/log-out to/from the program.

: The following log-in window will appear when you click the button. Enter your ID and PW and then click OK to log in. (Initial ID: admin, PW: 1)



: You can log out from the program when you click the button.

- 2** Program Window Control Button: You can maximize/minimize the window and terminate the program.



: Click the button to maximize the program window.



: Click the button to minimize the program window.



: Click the button to return the program window to its previous size.



: Click the button to see a window asking whether you want to end the program.

You can terminate the program by clicking OK.

- B** Device Status: Displays the Connection status, DANTE status, Output status, and Temperature Limit status of the device.

- 3** Device Connection Status: Displays the connection status of the device.



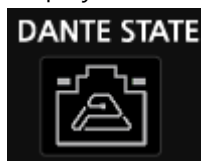
Disconnected:



Connected:

(A bright-green LED will move across the interface.)

DANTE Status: Displays the connection status of the DANTE board.

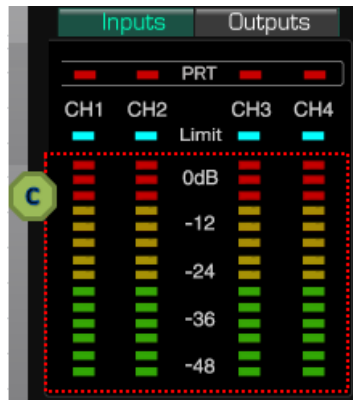


Disconnected:

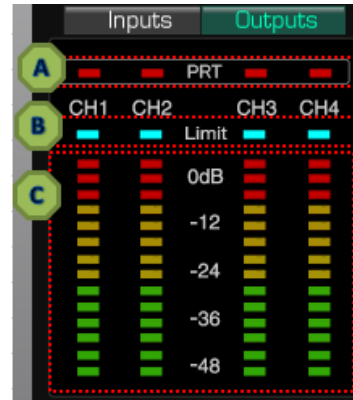


Connected:

- 4 Input/Output: Displays the Fault, Limit, Level Meter regarding the Input/Output
- Inputs**: Displays the Protection, Limiter, Level Meter status regarding the Input.
- Outputs**: Displays the Protection, Limiter, Level Meter status regarding the Output.

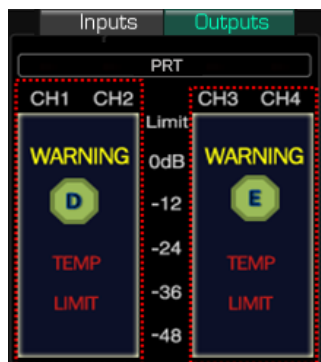


[Input Status]



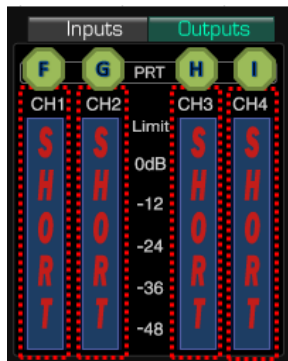
[Output Status]

- A** PRT: Displays the Protection status of the channel.
ON:
OFF:
- B** Limit: Displays the Limit status of the channel.
ON:
OFF:
- C** Meter: Displays the Meter status of the channel. (-48~0dB)
※ TEMP LIMIT Status: Displays the Temperature Limit status of the AMP.



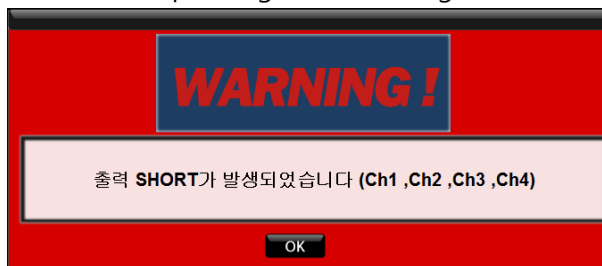
- D** AMP 1: A TEMP LIMIT message will appear if the temperature of the AMP 1 module exceeds the temperature limit.
- E** AMP 2: A TEMP LIMIT message will appear if the temperature of the AMP 2 module exceeds the temperature limit.
- ※ When the TEMP LIMIT appears, you cannot use the GUI controls.

※ OUTPUT SHORT Status: Displays the OUTPUT SHORT status of the AMP.



- F** CH1 SHORT Status: A SHORT message will appear if a SHORT occurs in CH1.
- G** CH2 SHORT Status: A SHORT message will appear if a SHORT occurs in CH2.
- H** CH3 SHORT Status: A SHORT message will appear if a SHORT occurs in CH3.
- I** CH4 SHORT Status: A SHORT message will appear if a SHORT occurs in CH4.

※ When a SHORT occurs in a particular channel of the device, a SHORT message for the corresponding channel along with the following pop-up will appear.



You can close the pop-up by clicking OK.

※ When a SHORT occurs in a particular channel of the device, a SHORT message for the corresponding channel along with the following pop-up will appear.

※ Please refer to the device manual for instructions on responding to TEMP LIMIT and OUTPUT SHORT.

C Program Menu: Displays the Program Menu and the control screen (GUI) for each Menu item.

- 5** Menu Configuration: You can see Configuration, Input PEQ, Filter/Crossover, Output PEQ, Peak Limiter, and Setup.
- 6** Control Screen: Once you select a Menu item, the control screen for the corresponding Menu item will appear.

II. Configuration

You can set up the Input Mode/Input Channel, set up the Output Channel, check the Component status, and configure each Channel (Volume, Delay, Polarity).



1 Configuration: The corresponding menu control screen will appear when you click Configuration.

2 Mode: You can set the Amp mode.

You can select various operating modes: Dual Mono, Stereo, Bi-Amp 1, Bi-Amp 2, Bridge.

3 Input Signal: You can use Input Signal to select the channel you want to set up.

You can select various input signals: Analog1, Analog2, Analog3, Analog4, DANTE(Rx0), DANTE(Rx1), DANTE(Rx2), DANTE(Rx3).

4 Input Component Status: Displays the status of the Input Component.

PEQ Status: Will appear as Activated if you had previously set up a value using the Input PEQ menu. For detailed instructions, please refer to III. Input PEQ on page 20 of this manual.

Delay Status: Will appear as Activated if you had previously set up a Delay value for the Input Channel using the Configuration menu. For detailed instructions, please refer to Delay Control on page 15 of this manual.

5 Output Component Status: Displays the status of the Output Component.

Filter Status: Will appear as Activated if you had previously set up a value using the Filter/Crossover menu. For detailed instructions, please refer to IV. Filter/Crossover on page 23 of this manual.

PEQ Status: Will appear as Activated if you had previously set up a value using the Output PEQ menu. For detailed instructions, please refer to V. Output PEQ on page 25 of this manual.

Delay Status: Will appear as Activated if set up a Delay value for the Output Channel using the Configuration menu. For detailed instructions, please refer to Delay Control on page 15 of this manual.

Limit Status: Will appear as Activated if you had previously set up a value using the Peak Limiter menu. For detailed instructions, please refer to VI. Peak Limiter on page 28 of this manual.

- 6** Volume and Mute Control: You can control the volume and mute functions for the corresponding channel.



and **-25.0**: Adjust to set up the desired value.



MUTE: Click to mute the channel.



: Set up the desired value by right-clicking the mouse and dragging the cursor.



-25.0: Set up the desired value by entering a number and pressing the Enter key on the keyboard or move the mouse wheel to adjust the value by increments of 1.0. If you move the mouse wheel while pressing the Ctrl key, you can adjust the value by increments of 0.1. (When moving the mouse wheel while pressing the Ctrl key, the value may adjust in different increments for different Menu items.)

(Setting Range: -50~0dB)

- 7** Delay Control: You can control the Delay functions for the corresponding channel.



and **0.0**: Adjust to set up the desired value. (Setting Range: 0~340ms)

- 8** Function Keys

Channel Link: You can activate the Channel Link function when you click the button. When you change the value of one Channel while the Channel Link function is activated, all other Channels will be adjusted identically as well.

Channel Link Deactivated: **Channel Link**

Channel Link Activated: **Channel Link**

※ If you activate the Channel Link function using the Input/Output Slider, the system will display **Slider Link**. If you activate it using the Input/Output Control, the system will display **Control Link**.

Output Control: A screen from which you can configure the Output Channel will appear when you click the button.

The screen will alternate between Input Control and Output Control every time you click.



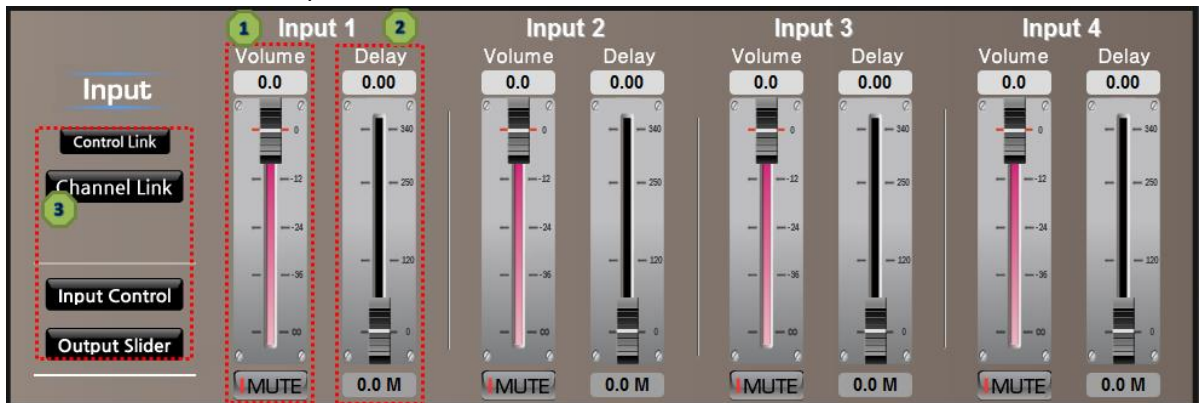
Volume Slider: The Volume Slider screen will appear.

The Volume Slider screen will alternate between Input Slider and Output Slider every time you click.



You can set up Channels 2 to 4 in the same way.

You can control the Input Volume (Slider) and Mute functions.



1 Volume and MUTE Control: You can control the Volume and MUTE functions of the Input Channel. (Setting Range: -50~0dB)

2 Delay Control: You can control the Delay status of the Input Channel. (Setting Range: 0~340ms)

3 Function Keys

You can configure the Channel Link, Input/Output Control, and Input/Output Slider. For detailed instructions, please refer to **8** Function Keys on page 15.

You can set up the Volume, Delay, Polarity values of the Output Channel.



1 Volume and MUTE Control: You can control the Volume and MUTE functions of the Output Channel. For detailed instructions, please refer to **6** Volume and Mute Control on page 15.

2 Delay Control: You can control the Delay functions for the corresponding channel.



and **0.0**: Adjust to set up the desired value.

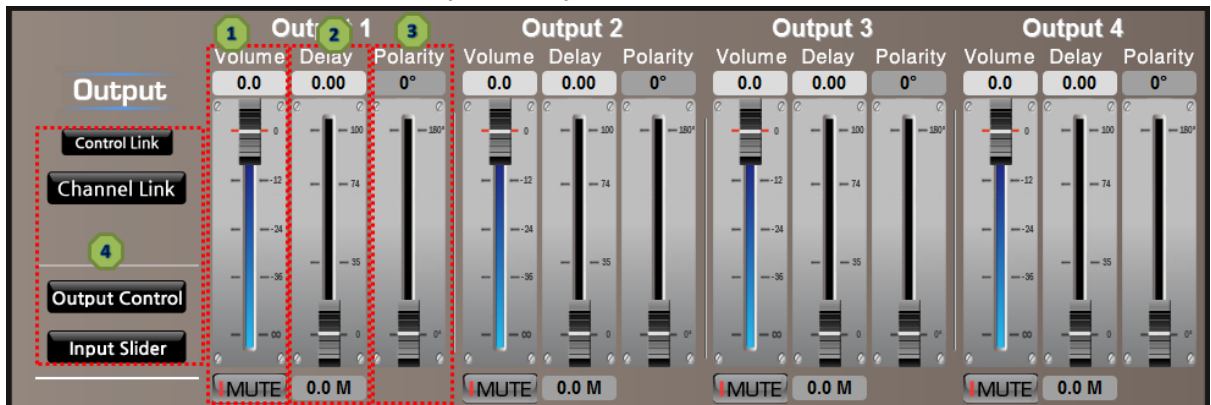
3 Polarity Control: You can set up the Polarity status for the corresponding channel. The Value will alternate between 0° and 180° every time you click the Polarity button.



4 Function Keys

You can configure the Channel Link, Input/Output Control, and Input/Output Slider. For detailed instructions, please refer to **8** Function Keys on page 15.

You can set up the Volume, Delay, Polarity values of the Output Channel.

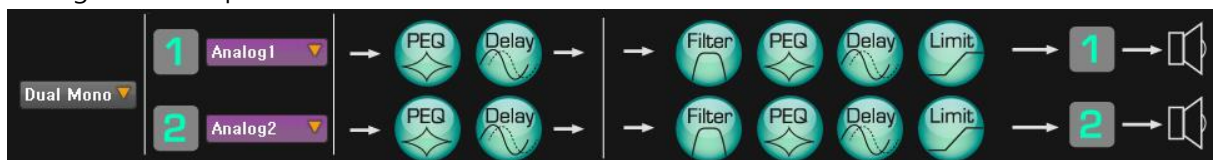


- ① Volume and MUTE Control: You can control the Volume and MUTE functions of the Output Channel.
- ② Delay Control: You can control the Delay status of the Output Channel.
- ③ Polarity Control: You can set up the Polarity status for the Output Channel.
- ④ Function Keys

You can configure the Channel Link, Input/Output Control, and Input/Output Slider. For detailed instructions, please refer to ⑧ Function Keys on page 15.

DSP Mode Configuration

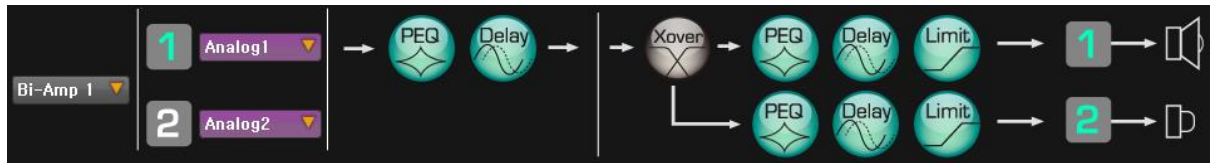
- ① Dual Mono: Processes the Input (PEQ, Delay), Output (Filter, PEQ, Delay, Limiter), etc. for each Input Channel (using a total of two Input Channels) and then produces sound through each Output Channel.



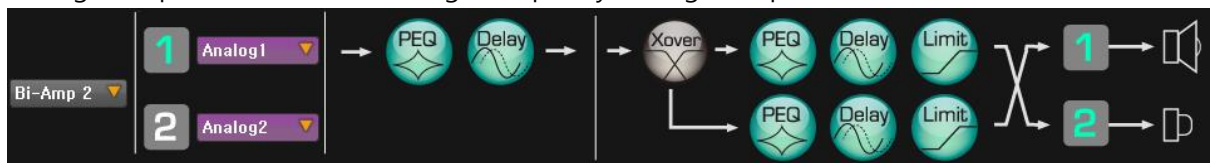
- ② Stereo: Processes the Input (PEQ, Delay), Output (Filter, PEQ, Delay, Limiter), etc. in an identical manner for each Input Channel (using a total of two Input Channels) and then produces sound through each Output Channel.



- ③ Bi-Amp 1: Processes the Input (PEQ, Delay) for one Input Channel, and processes the Output (PEQ, Delay, Limiter), etc. for each Channel, then produces a High Frequency through Output Channel 1 and a Low Frequency through Output Channel 2.



- ④ Bi-Amp 2: Processes the Input (PEQ, Delay) for one Input Channel, and processes the Output (PEQ, Delay, Limiter), etc. for each Channel, then produces a Low Frequency through Output Channel 1 and a High Frequency through Output Channel 2.



- ⑤ Bridge: Processes one Input (PEQ, Delay) for one Input Channel, and processes one Output (PEQ, Delay, Limiter), etc., then produces sound with the Polarity value set to 0° for Output Channel 1 and 180° for Output Channel 2.



III. Input PEQ

You can set up the Input Parametric EQ configuration.

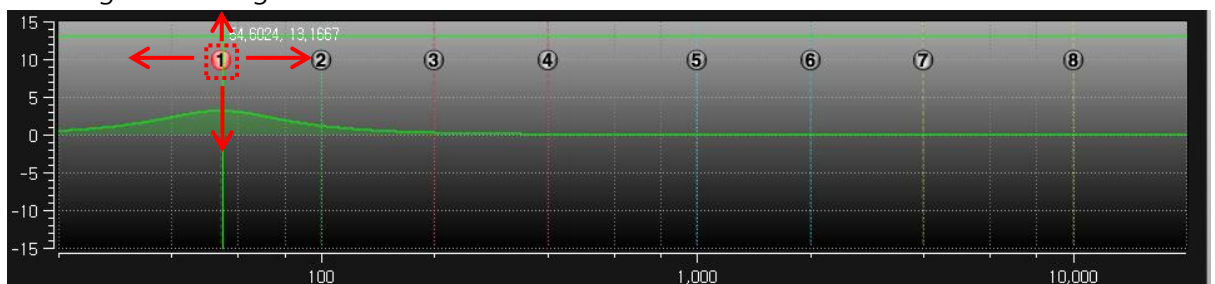


- 1 Input PEQ: The corresponding menu control screen will appear when you click Input PEQ.
- 2 Graph Display: The EQ status value will appear in Graph format.

The X axis will show the Frequency (20~20000Hz), while the Y axis will show the Gain (-15~15dB).

Setting up the Gain/Frequency from the Graph

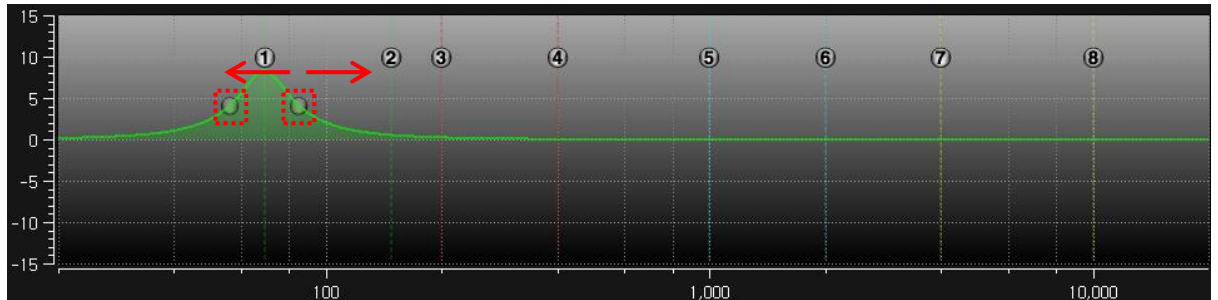
- Click the number icon with your mouse.
- If you have clicked the number correctly, the number will become a red icon.
- Hold down the mouse button (keep the number icon red) and then drag the cursor to change the setting value.



Setting up the Q factor from the Graph

- Click the Bank for which you wish to set up the Q factor and turn it ON (Bank 1) and then double-click the number icon. When the Bank is OFF, the Q factor on the Graph will not become activated even if you double-click the number icon.

- When the Q factor on the Graph becomes activated, it will appear as follow:



In the above state, click and hold down the circle icon and then drag your cursor to adjust the Q factor value. After you have reached the desired Q factor value, you can double-click the Graph area to complete the setting.

3 Channel Selection: You can select which Channel to use.

If the Amp mode is set to Dual Mono, the system will display Input 1, Input 2, Input 3, and Input 4.

If the Amp mode is set to Stereo, the system will display Input 1+2/Output 1+2 and Input 3+4/Output 3+4.

If the Amp mode is set to Bi-Amp1/Bi-Amp2, the system will display Input 1/Output 1+2, and Input 3/Output 3+4.

If the Amp mode is set to Bridge, the system will display Input 1/Output 1, and Input 3/Output 3.

4 Bypass: Activates the Bypass function for the selected Channel.

Bypass ON: **Bypass**, the device does not use the EQ (value for Bank 1~8) for the selected Channel, and EQ does not appear on the Graph Display.

Bypass OFF: **Bypass**, the device uses the EQ for the selected Channel.

5 Defeat: Sets the EQ (value for Banks 1-8) for the selected Channel to default values.

6 Copy: Copies the Input PEQ setting values of the selected Channel to the memory.

7 Paste: Pastes the copied values onto the memory. You cannot paste to the same Channel.

8 Bank: You can turn the Bank for the selected Channel ON/OFF. You can set up eight Banks for each Channel.

Bank ON: **Bank 1**

Bank OFF: **Bank 1**, the EQ does not appear on the Graph Display.

- 9** Type: For the Bank, you can select between PEQ (Parametric EQ), LSF (Low Shelving Filter), and HSF (High Shelving Filter).

	Bypass Status	Bank 1		Bank 2		Bank 3	
		Bank 1 Status	EQ Application	Bank 2 Status	EQ Application	Bank 3 Status	EQ Application
1	ON	OFF	X	OFF	X	OFF	X
2	OFF	OFF	X	ON	O	ON	O
3	OFF	ON	O	OFF	X	ON	O

※ If you turn Bypass ON, the system will turn the Bank OFF even if it was previously turned ON.

- A** Frequency: You can set the Frequency value for the Bank. (Setting Range: 20~20000Hz)
- B** Q factor: You can set the Q factor value for the Bank. (Setting Range: If Type is PEQ: 0.1~12, If Type is LSF or HSF: 0.1~1.0)
- C** Gain: You can set the Gain value for the Bank. (Setting Range: -15~15dB)
- ※ You can set up Banks 1-8 using the same procedure.

IV. Filter/Crossover

You can set up the Filter attributes and Crossover value.



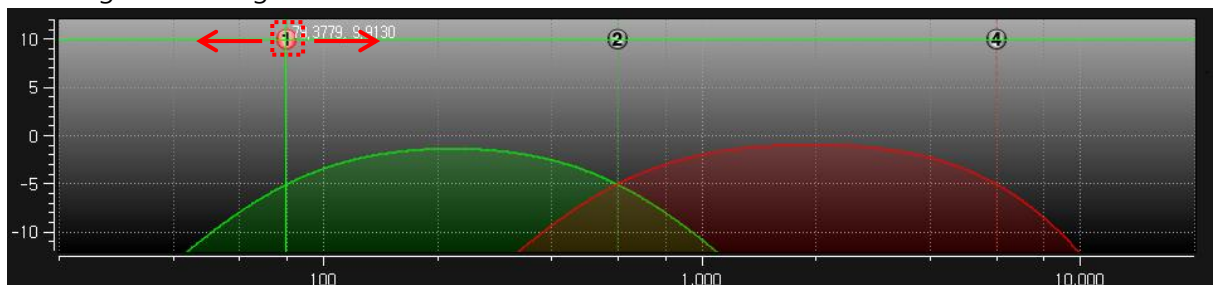
1 Filter/Crossover: The corresponding menu control screen will appear when you click Filter/Crossover.

2 Graph Display: The Filter value will appear in Graph format.

The X axis will show the Frequency (20~20000Hz), while the Y axis will show the Gain (-12~12dB).

Setting up the Gain/Frequency from the Graph

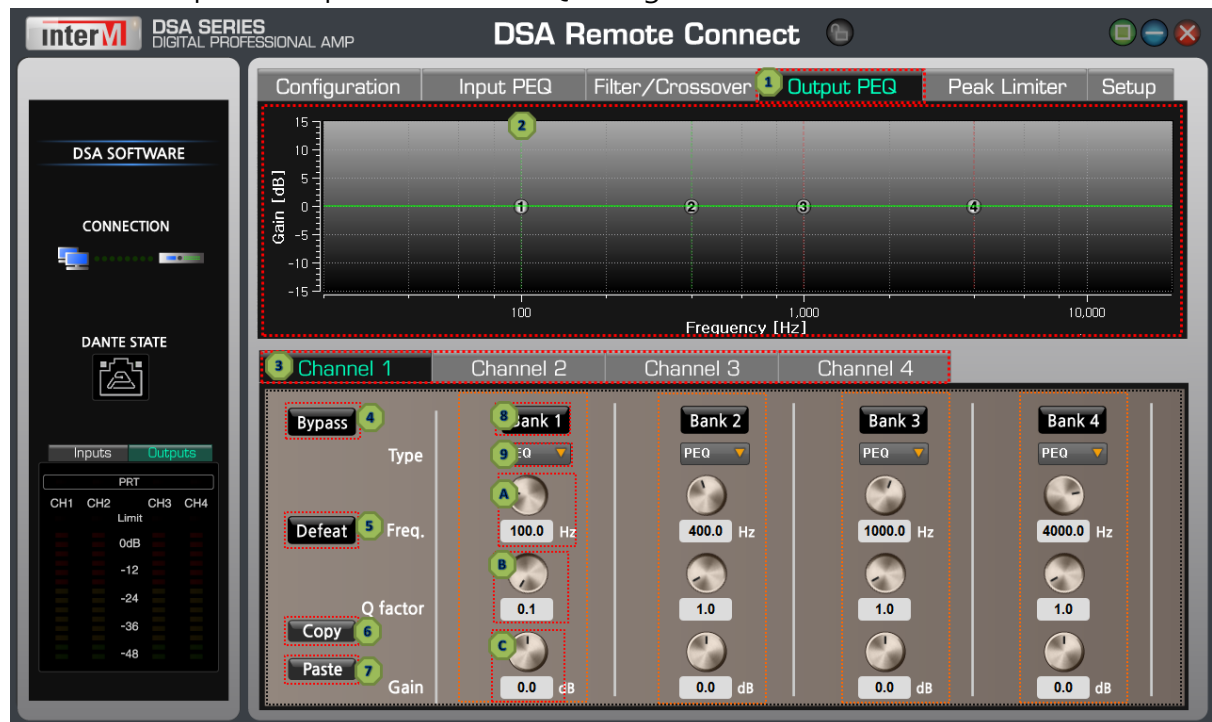
- Click the number icon with your mouse.
- If you have clicked the number correctly, the number will become a red icon.
- Hold down your mouse (keep the number icon red) and then drag the cursor to change the setting value.



- 3** Channel Selection: You can select which Channel to use.
 If you want to set up Channel 1, Channel 2, select Channel 1/2. If you want to set up Channel 3, Channel 4, select Channel 3/4.
- 4** HPF: You can set up the HPF (High Pass Filter).
 Freq.: You can set up the Frequency for HPF. (Setting Range: 20~20000Hz)
 Type: For HPF Type, you can select between Off, Butterworth, Bessel, and Linkwitz-Riley.
 Slope: For HPF Slope, you can select between 12dB, 18dB, and 24dB.
- 5** LPF: You can set up the LPF (Low Pass Filter).
 Freq.: You can set up the Frequency for LPF. (Setting Range: 20~20000Hz)
 Type: For LPF Type, you can select between Off, Butterworth, Bessel, and Linkwitz-Riley.
 Slope: For HPF Slope, you can select between 12dB, 18dB, and 24dB.
- 6** GAIN: You can set up the GAIN value for the selected Channel.
 You can set up GAIN only when Crossover is activated. Crossover will appear only when the Amp mode is set to Bi-Amp 1 or Bi-Amp 2.
- 7** Copy: Copies the Filter/Crossover setting values of the selected Channel to the memory.
 Paste: Pastes the copied values onto the memory. You cannot paste to the same Channel.
- 8** Crossover: You can set up the Crossover status for the selected Channel.
 Crossover will appear only when the Amp mode is set to Bi-Amp 1 or Bi-Amp 2.
 Crossover will function across two Channels. (Channel 1/2, Channel 3/4)
 Channel Link: When you change the value of one Channel while the Channel Link function is activated, all other Channels will be adjusted identically as well.
 Channel Link will appear only when the Amp mode is set to Dual Mono.
 Channel Link will appear only when Crossover is deactivated.
 ※ You can set up Channels 1-4 using the same procedure.

V. Output PEQ

You can set up the Output Parametric EQ configuration.



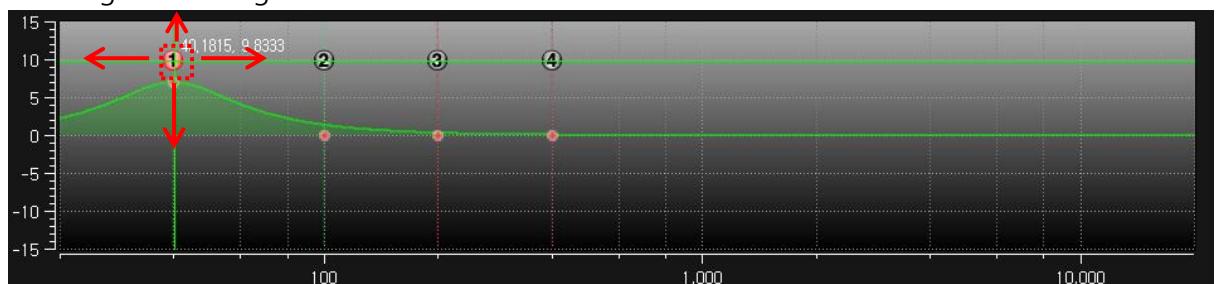
1 Output PEQ: The corresponding menu control screen will appear when you click Output PEQ.

2 Graph Display: The EQ status value will appear in Graph format.

The X axis will show the Frequency (20~20000Hz), while the Y axis will show the Gain (-15~15dB).

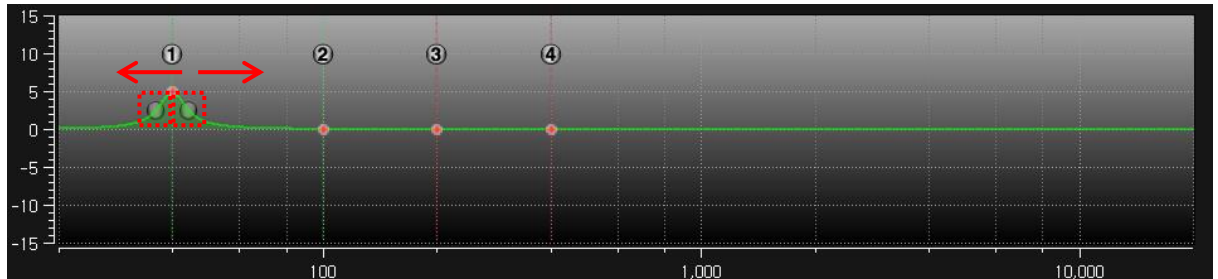
Setting up the Gain/Frequency from the Graph

- Click the number icon with your mouse.
- If you have clicked the number correctly, the number will become a red icon.
- Hold down your mouse (keep the number icon red) and then drag the cursor to change the setting value.



Setting up the Q factor from the Graph

- Click the Bank for which you wish to set up the Q factor and turn it ON (**Bank 1**) and then double-click the number icon with your mouse. When the Bank is OFF, the Q factor on the Graph will not become activated even if you double-click the number icon.
- When the Q factor on the Graph becomes activated, it will appear as follows:



In the above state, click and hold down the circle icon, then drag your cursor to adjust the Q factor value. After you have reached the desired Q factor value, you can double-click the Graph area to complete the setting.

3 Channel Selection: You can select which Channel to use.

If the Amp mode is set to Dual Mono, the system will display Input 1, Input 2, Input 3, and Input 4.

If the Amp mode is set to Stereo, the system will display Input 1+2/Output 1+2 and Input 3+4/Output 3+4.

If the Amp mode is set to Bi-Amp1/Bi-Amp2, the system will display Input 1/Output 1+2, and Input 3/Output 3+4.

If the Amp mode is set to Bridge, the system will display Input 1/Output 1 and Input 3/Output 3.

4 Bypass: You can activate the Bypass function for the selected Channel.

Bypass ON: **Bypass**, the device does not use the EQ (value for Bank 1~4) for the selected Channel, and the EQ does not appear on the Graph Display.

Bypass OFF: **Bypass**, the device uses the EQ for the selected Channel.

5 Defeat: Sets the EQ (value for Banks 1-4) for the selected Channel to default values.

6 Copy: Copies the Output PEQ setting values of the selected Channel to the memory.

7 Paste: Pastes the copied values onto the memory. You cannot paste to the same Channel.

8 Bank: You can turn the Bank for the selected Channel ON/OFF. You can set up four Banks for each Channel.

Bank ON: **Bank 1**

Bank OFF: **Bank 1**, the EQ does not appear on the Graph Display.

- 9** Type: For the Bank, you can select between PEQ (Parametric EQ), LSF (Low Shelving Filter), and HSF (High Shelving Filter).

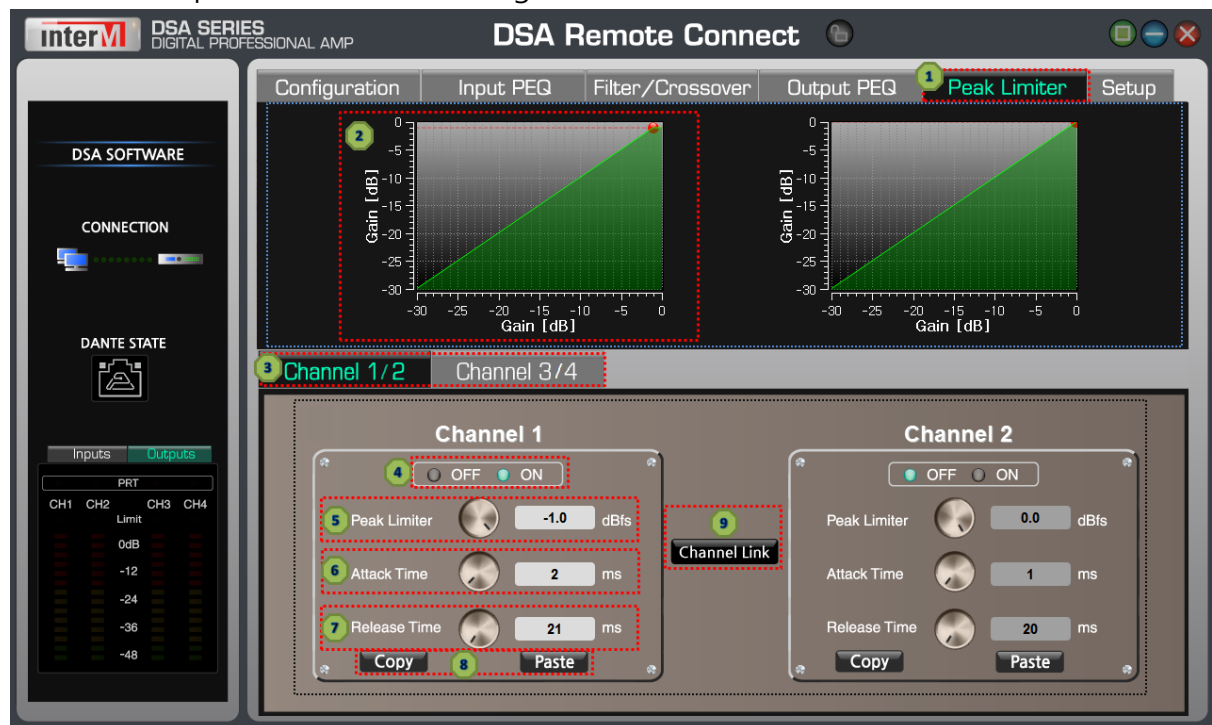
	Bypass Status	Bank 1		Bank 2		Bank 3	
		Bank 1 Status	EQ Application	Bank 2 Status	EQ Application	Bank 3 Status	EQ Application
1	ON	OFF	X	OFF	X	OFF	X
2	OFF	OFF	X	ON	O	ON	O
3	OFF	ON	O	OFF	X	ON	O

※ If you turn Bypass ON, the system will turn the Bank OFF even if it was previously turned ON.

- A** Frequency: You can set the Frequency value for the Bank. (Setting Range: 20~20000Hz)
- B** Q factor: You can set the Q factor value for the Bank. (Setting Range: If Type is PEQ: 0.1~12, If Type is LSF or HSF: 0.1~1.0)
- C** Gain: You can set the Gain value for the Bank. (Setting Range: -15~15dB)
- ※ You can set up Banks 1-4 using the same procedure.

VI. Peak Limiter

You can set up the Peak Limiter configuration.

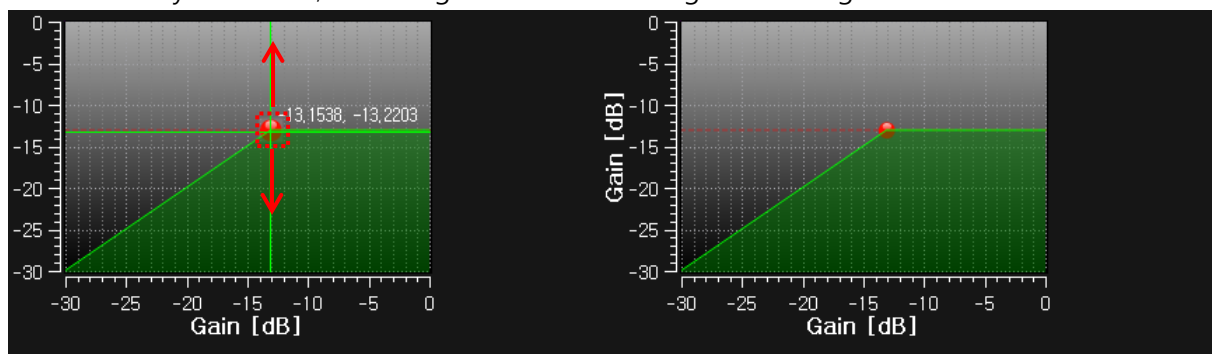




1 Peak Limiter: The corresponding menu control screen will appear when you click Peak Limiter.

2 Graph Display: The Peak Limiter status value will appear in Graph format.

Setting up the Peak Limiter from the Graph

- Click the red circle using your mouse.
- Hold down your mouse, then drag the cursor to change the setting value.



- 3** Channel Selection: You can select which Channel to use.
If you want to set up Channel 1, Channel 2, select Channel 1/2. If you want to set up Channel 3, Channel 4, select Channel 3/4.
- 4** Peak Limiter ON/OFF Configuration: You can activate the Peak Limiter function for the selected Channel.
Peak Limiter ON:  ON
Peak Limiter OFF:  OFF
- 5** Peak Limiter: You can set up the Peak Limiter value for the selected Channel.
(Setting Range: -25~0dBfs)
- 6** Attack Time: You can set up the Attack Time value for the selected Channel.
(Setting Range: 1~50ms)
- 7** Release Time: You can set up the Release Time value for the selected Channel.
(Setting Range: 20~4000ms)
- 8** Copy: Copies the Peak Limiter setting values of the selected Channel to the memory.
Paste: Pastes the copied values onto the memory. You cannot paste to the same Channel.
- 9** Channel Link: When you change the value of one Channel while the Channel Link function is activated, all other Channels will be adjusted identically as well.

VII. Setup

You can set up the device management, device connect/disconnect, preset management, and firmware update features.



- 1 Setup: The corresponding menu control screen will appear when you click Setup.
- 2 DEVICES LIST: A list of currently registered devices will appear on-screen. If you select a device list, it will turn blue as follows.

DSA-2000Q	DSA-2000Q_10	localA10	192.168.48.82	00.1D.1D.01.0C.CF
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 - ▲: Moves the selected device list up one slot.
 - ▼: Moves the selected device list down one slot.
- 3 Individual Device Information Display: Offers a summary of the device you have selected.

NAME: Displays the name assigned to the device you have selected. You can change the device name by entering a new name and clicking **CHANGE**.

AMP NAME: Displays the name of the AMP assigned to the device you have selected. You can change the AMP name by entering a new name and clicking **CHANGE**.

※ When you SCAN for devices (search device), the system will display the name of the device. For detailed instructions, please refer to 7 SCAN on page 35 of this manual.

IP ADDRESS: Displays the IP address of the device you have selected, or you can enter an IP address.

ADD: Enter the NAME, AMP NAME, and IP ADDRESS, then click **ADD** to register the information on the DEVICES LIST.

CHANGE: Change the NAME, AMP NAME, and IP ADDRESS of the device selected from the DEVICES LIST, then click **CHANGE** to change the information.

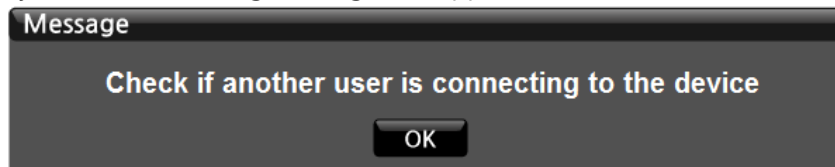
DELETE: Select the device you wish to delete from the DEVICES LIST, then click **DELETE** to delete.

4 CONNECT/DISCONNECT DEVICE: Use this to connect/disconnect a device.

CONNECT: The system will attempt to connect to the device selected from the DEVICES LIST. (The CONNECT button will appear only when the device is disconnected)

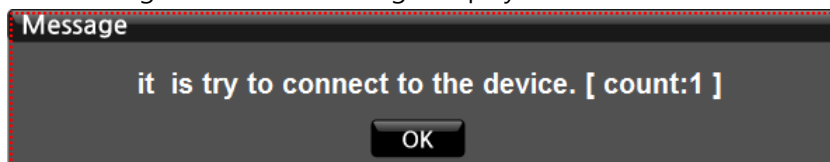
When the device is successfully connected, the system will begin synchronizing data.

You can connect only one device to your PC. If another user is already connected to the system, the following message will appear.

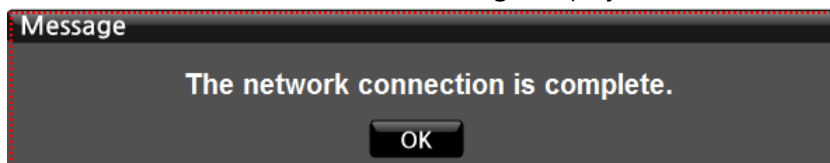


When the device is successfully connected, the system will begin synchronizing the preset data. You can set up the device once synchronization is complete. Device connection and synchronization-related messages are as follows.

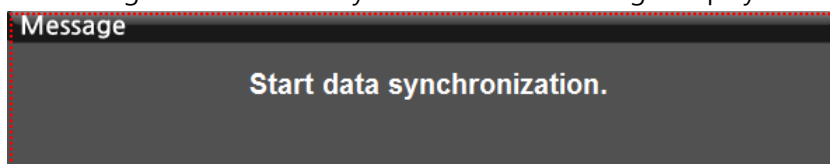
"Connecting the device." Message Display



"Network connection successful." Message Display



"Initializing data download synchronization." Message Display



"Input Channel 1 data (1/8) download synchronization complete." Message Display.

"Input Channel 2 data (2/8) download synchronization complete." Message Display.

"Input Channel 3 data (3/8) download synchronization complete." Message Display.

"Input Channel 4 data (4/8) download synchronization complete." Message Display.

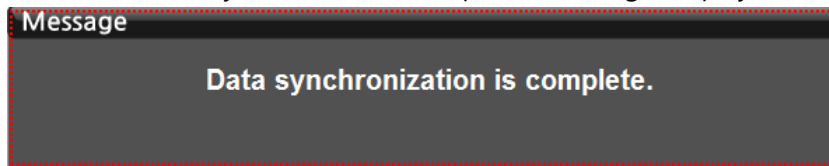
"Output Channel 1 data (5/8) download synchronization complete." Message Display.

"Output Channel 2 data (6/8) download synchronization complete." Message Display.

"Output Channel 3 data (7/8) download synchronization complete." Message Display.

"Output Channel 4 data (8/8) download synchronization complete." Message Display.

"Data download synchronization complete." Message Display.

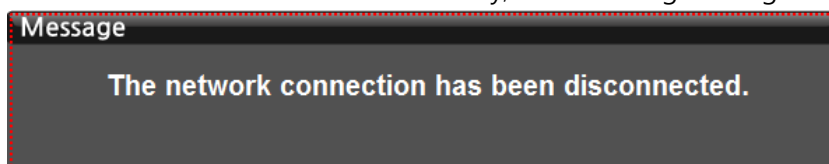


Once the device is connected, please make sure the above message appears in order to confirm that the synchronization process was completed successfully.

If the system fails to connect a device, please check the IP address and network connection status of the device.

DISCONNECT: The system will attempt to disconnect the device selected from the DEVICES LIST. (The DISCONNECT button will appear only when the device is connected.)

If the device is disconnected successfully, the following message will appear.



Device Connected:



Device Disconnected:



5 Preset Configurations: You can save/load/synchronize the current setup configuration.

SAVE: You can save the current setup configuration as preset data.

If you click the SAVE button, the preset data will be saved as a .psi file.

LOAD: You can load preset information you previously saved as a file.

Click LOAD, then select a preset file. If you click OK when the "Synchronize Data" message appears, the system will initiate the data synchronization process. (The system will not initiate the synchronization process if you select NO.) To synchronize the data with a device, please make sure the device is connected before selecting LOAD.

SYNC: The system will synchronize the preset data between the AMP device and the PC.

AMP►PC: The system will synchronize on the basis of the preset data available on the AMP device. Synchronization-related messages are as follows.

"Initializing data download synchronization." Message

"Configuration data (1/4) download synchronization complete." Message

"Filter data (2/4) download synchronization complete." Message

"eq parametric data (3/4) download synchronization complete." Message

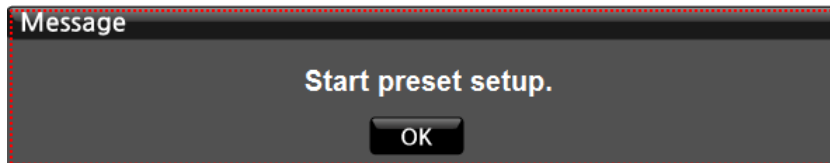
"Peak limiter data (4/4) download configuration complete." Message

"Data download synchronization complete." Message

Please make sure the above message appears in order to confirm that the synchronization process was completed successfully.

PC ► AMP: The system will synchronize on the basis of the preset data available on the PC. Synchronization-related messages are as follows.

"Initializing data synchronization." Message Display.



"Input Channel 1 (1/8) synchronization complete." Message Display.

"Input Channel 2 (2/8) synchronization complete." Message Display.

"Input Channel 3 (3/8) synchronization complete." Message Display.

"Input Channel 4 (1/8) synchronization complete." Message Display.

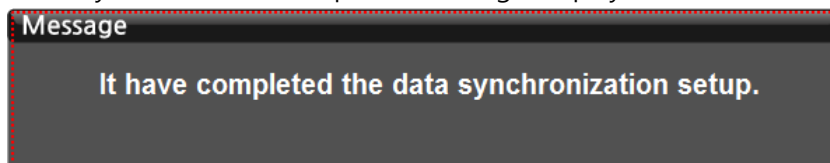
"Output Channel 1 (5/8) synchronization complete." Message Display.

"Output Channel 2 (6/8) synchronization complete." Message Display.

"Output Channel 3 (7/8) synchronization complete." Message Display.

"Output Channel 4 (8/8) synchronization complete." Message Display.

"Data synchronization complete." Message Display.



Please make sure the above message appears in order to confirm that the synchronization process was completed successfully.

6 CHANGE PASSWORD: You can change the password assigned to the program account.

The screenshot shows the 'Setup' tab of the DSA-SERIES software. The 'DEVICES LIST' table is as follows:

	Device Type	name	AMP Name	IP Address	MacAddress
1	DSA-500Q	4DSA-500Q_12	4DSA-500Q_12	192.168.49.231	00.1D.1D.02.B9.03

Below the table, there are controls for PC PRESETS (LOAD, SAVE), SYNCHRONIZATION (AMP ► PC, PC ► AMP, SYNC), and a 'CHANGE PASSWORD' section. The 'CHANGE PASSWORD' section includes a green button with a red dashed box and a green circle with the number 6, followed by input fields for OLD PASSWORD, NEW PASSWORD, and CONFIRM PASSWORD, and finally CHANGE and HIDE buttons.

OLD PASSWORD: Type your existing password.

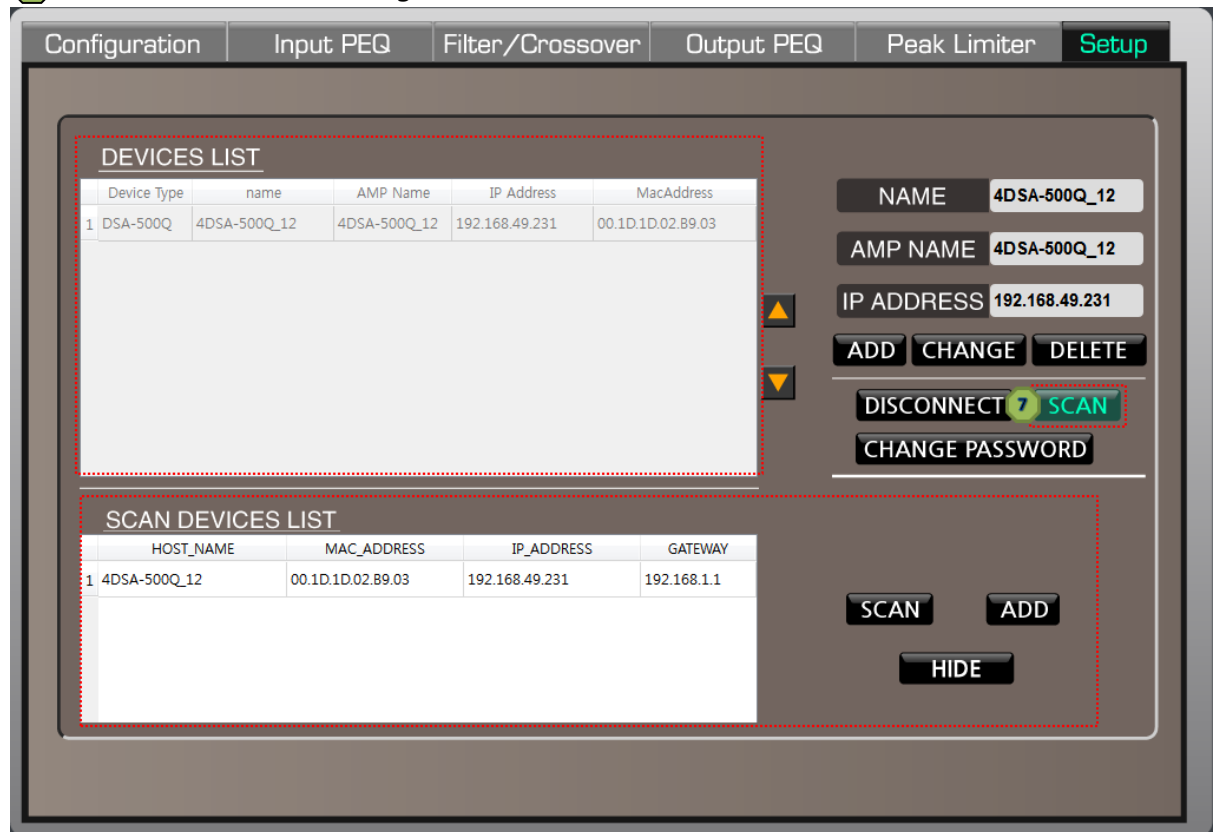
NEW PASSWORD: Type a new password.

CONFIRM PASSWORD: Type the new password again.

CHANGE: The system will update your password.

HIDE: The system will end the CHANGE PASSWORD mode.

- 7** SCAN: You can scan and register a device on the network.



SCAN: The system will begin scanning for a device connected to the network.

SCAN DEVICES LIST: Displays the list of scanned devices.

ADD: The system will register the device selected from the SCAN DEVICES LIST on the DEVICES LIST.

HIDE: The system will end the SCAN mode.

※ If the SCAN function does not work within the same network, please change your Windows firewall settings. (Go to Control Panel -> All Control Panel Items -> Windows Defender Firewall -> Allowed Apps and add the "DSA-Series.exe" program.)

- 8** REMOTE POWER: You can control the standby mode of the device.

REMOTE POWER ON: , the device is currently activated.

REMOTE POWER OFF: , the device is currently on standby.

This is available only when the device is connected.

- 9** FACTORY RESET: You can initialize the device to its factory settings.

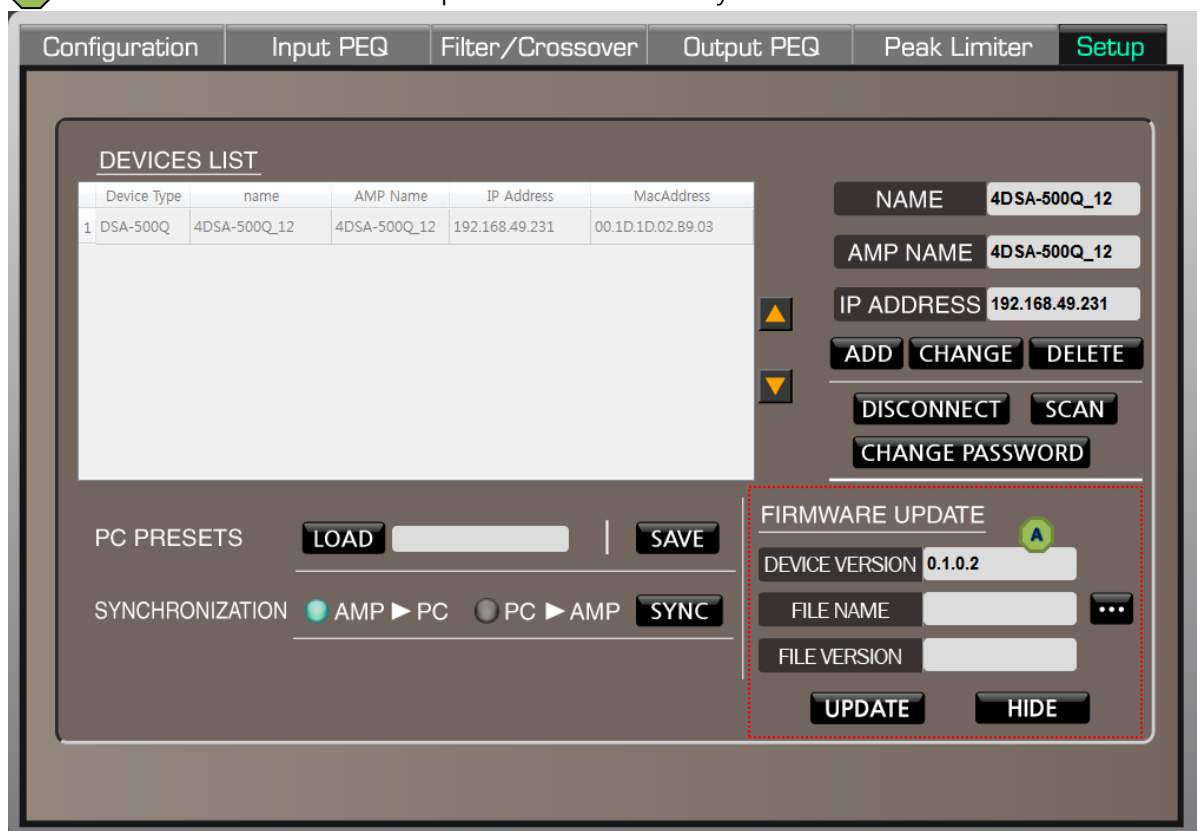
The device's status, IP address, etc. will return to factory settings.

This is available only when the device is connected.

After a FACTORY RESET, please enter a new IP address for the device to connect it to a network.

For instructions on setting up the IP address for a device, please refer to the DSA-500Q/2000Q device manual.

A FIRMWARE UPDATE: You can update the firmware of your device.



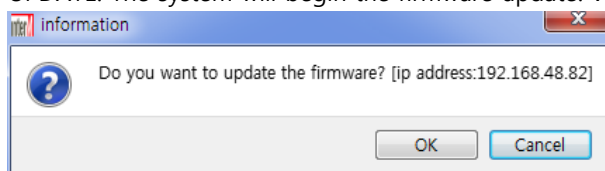
DEVICE VERSION: Displays the firmware version of the current device.

FILE NAME: Displays the file name of the firmware.

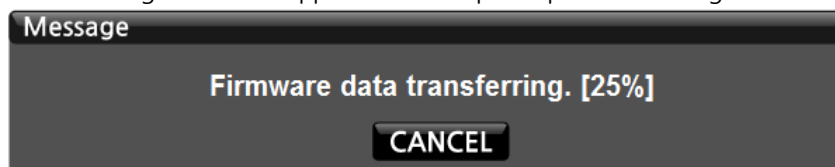
⋮: You can select the firmware file from the file browser. (File Extension: *.impk)

FILE VERSION: Displays the file version of the firmware.

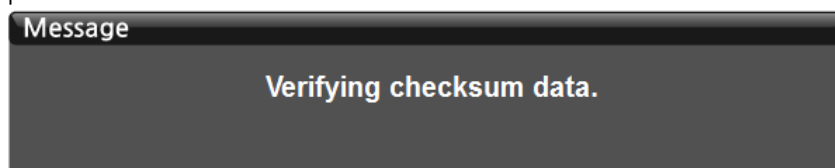
UPDATE: The system will begin the firmware update. When the following window appears, click OK.



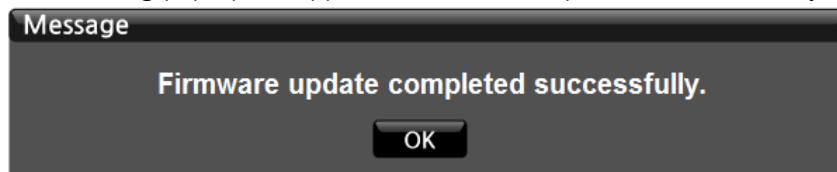
The following screen will appear and the update process will begin.



When the system finishes transmitting update-related data, it will proceed onto the verification process.



The following pop-up will appear when firmware update ends successfully.



HIDE: The system will end the Firmware Update mode.

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