Contents

1 PC Software

1.1 Software Installation

A Windows PC with 1 GHz or higher processor:
Software configuration: Windows 7 or above.
Minimum hardware configuration：
1 GB f ree storage space.
1024 x 768 resolution ratio
24 bit or higher color
2 GB or high memory

1.2 Using the Software

1.2.1 Software download

Access website www.swanspeakers.com to download “HiViQASeries V1.01.zip”.

Model	Software package name (please select the latest version)	Software name (please select the latest version)
QASeries	HiViQASeriesV1.01.zip	HiViQASeriesV1.01.exe

1.2.2 Open Software

Unzip“HiViQASeries V1.01.zip”， double click“* HiViQASeriesV1.01.exe”to pen software.

1.2.3 Turn on the machine

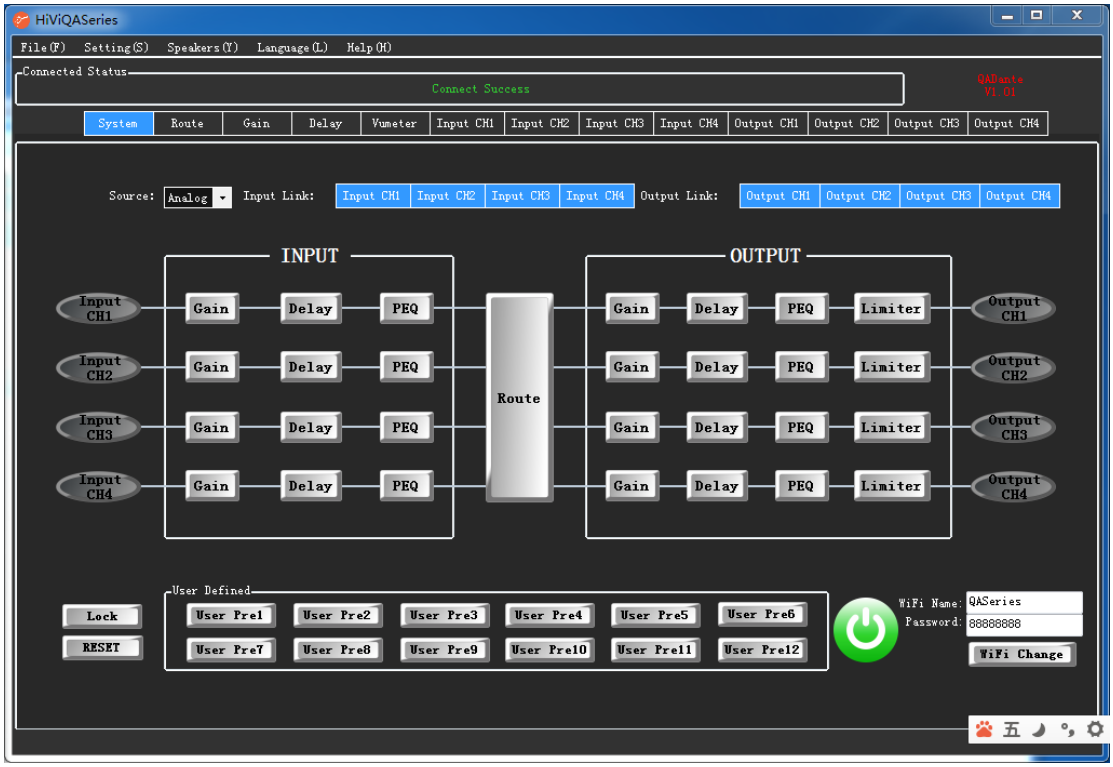
First, power on the machine and select the connection method, either "USB" or "WiFi". Then, plug in the USB cable or WiFi module and set the machine's connection method by pressing the MENU button to enter the "Set menu" page, selecting "System" with the up and down arrow keys, and pressing Enter to confirm. Next, select "USB/WiFi-" with the up and down arrow keys and press Enter to confirm. Finally, select either "<USB>" or "<WiFi>" with the up and down arrow keys and press Enter to confirm, as shown in the diagram below.

1.2.4 Connect Equipment

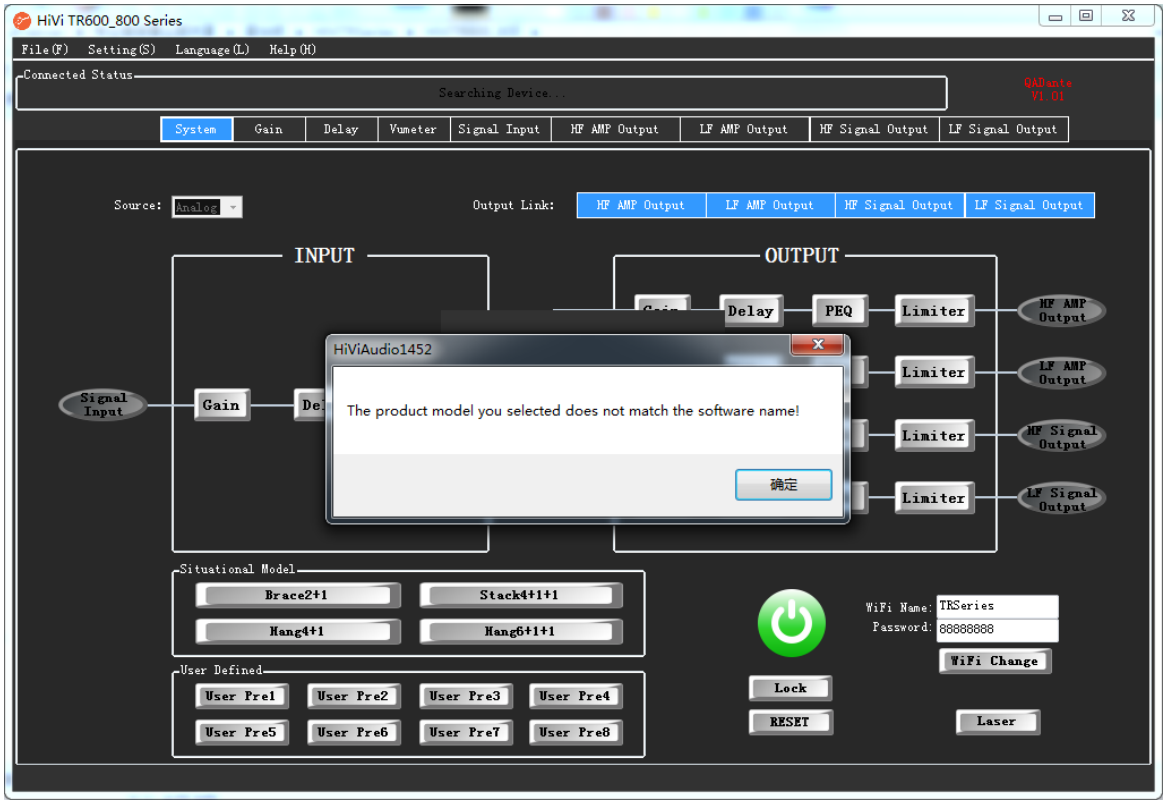
Click "Device Selection" and choose "QADante" or "QADSP".

Click “ Setting(S)” to choose “USB” or “WiFi” to connect. It’ll display “**Connect Success**” in green on the screen if the operation is correct, as shown below.

If the connection is incorrect, it’ll pop up corresponding prompt:
“The product model you selected does not match the software name”, as shown below:



If there is a connection error, a corresponding prompt will pop up. For example, if the selected device does not match the product model being connected, the following prompt will appear (if the connection method is WiFi, the WiFi connection will be disconnected directly).



1.3 Audio Module Parameters

1.3.1 System Setting

The four groups of outputs can be synchronized. Clicking on the corresponding module can jump to the settings of each module. It can also perform remote On/Off, reset, user preset adjustments, WiFi name and password modification.

1.3.2 Gain Setting

1. Main volume adjust range: -60dB-0dB；Input/Output; Input/Output volume adjust range: -60dB-+6dB；
2. Click MUTE can independently control the input/output volume, and also the main volume (the icon turns green indicates it's in MUTE mode).
3. Main volume limit (Max) input -60 to 0. Users can turn ON/OFF the Max volume adjustment value limit to main volume through the ON/OFF button.
4. Input/Output volume limit (Max) input -60 to +15. Users can turn ON/OFF the Max volume adjustment value limit to Input/Output volume through the ON/OFF button.
5. Input/Output phase could be switched between positive phase and negative phase (180º) (the green icon displays negative phase.).
6. This function can be used to obtain the best listening effect during system debugging.

1.3.3 Delay Function

Input/Output can independently adjust the delay time, up to 100milliseconds.

1.3.4 Level Monitoring

It can monitor the Input/Output level of the system in real time, which is different from the input level monitored by the mixer. This function is convenient for users monitor whether the input signal is overloaded and whether the power signal output to speaker is overloaded, so as to avoid distortion or damage of the speaker.

1.3.5 EQ Adjustment

1. Input can independently adjust the EQ parameters. 16 EQ points in each group; EQ adjustment range is ±15dB;
2. Output can independently adjust the EQ parameters. 16 EQ points in each group; EQ adjustment range is ±15dB. Low cut, low cut, limiters each has one set.

a. Low/High cut each has 15 filter for selection.
b. Hold the press on EQ point with the left mouse button (The mouse symbol changes from finger icon to a cross direction icon, indicating that it has been selected).
   Drag up and down to adjust the gain of this point.
   Drag left and right to adjust the Central Frequency of this point.
c. Hole the press on EQ point with the right mouse button (The mouse symbol changes from finger icon to a cross direction icon, indicating that it has been selected).
   Drag the mouse symbol to right to decrease the Q value of this point.
   Drag the mouse symbol to left to increase the Q value of this point.

After selecting the EQ point (the corresponding parameter setting box will turn green), you can also select the parameter box that needs to be adjusted and use the up and down buttons on the keyboard or icon to adjust the data without pressing enter, and the changes will take effect immediately.

1.4 Setting Menu

1.4.1 File Menu

a. When exiting the software, system will prompt AUTO SAVE OR NOT. If select “OK”, system will create a user file. The file directory is in the same directory as the execution file. If select “Cancel”, then the data will not be saved to the computer.

b. Users can also click “File” with the left mouse button, then choose “Save to PC” to save the current data to PC. The path is also in the same directory of the execution file, which is convenient for copying and storage.

c. Data adjustment: Click “File” with the left mouse button, and then select” Open” to find the directory address previously saved by the user. Choose the data files to be called and execute the relevant data settings of the file.

d. It should be noted that every time any data of the PC control software is adjusted, the product connected will immediately execute and save the corresponding data to its ROM. The PC software will call up the ROM date of connected products when it is online next time.

1.4.2 Device Setting

User can choose USB or WiFi for connection. WiFi name: QASeries, Password： 88888888)

1.4.3 Equipment Selection

Please select the corresponding product model so that the software can adjust to the corresponding functions. If the software name you choose does not match the amplifier model, you will not be able to connect and the software will give a prompt.

1.4.3 Speaker Selection

Please select the corresponding speaker series and model, and the system will automatically adjust to the corresponding optimal curve (output section). Based on the actual application scenario, users can fine-tune on the curve provided by the system. As the software version upgrades, more speaker series will be added to the system in the future.

1.4.4 Language

User can choose Chinese or English to display. (English by default).

1.4.5 Help

（1）About: Display the information of host computer: version, website, copyright and others.

（2）Instructions for use(this document)

Tips: If*.exe can not run normally, please install dotNetFx40_Full_x86_x64.exe

(Download address: https://www.microsoft.com/zh-cn/download/confirmation.aspx?id=17718) Windows XP SP3 and windows 7 generally need to install dotnetfx40_ Full_ x86_ X64.exe, and then run *. Exe

2 Dante Operating instructions)

2.1 About Dante

2.1.1 Dante Protocol

Dante Protocol is a modern high-performance digital media transmission system running on the stander IP network. It is a product integrated hardware, software and communication protocol.

2.1.2 Dante Advantage

a ）Allowing simultaneous transmission and reception of many audio channels on one Ethernet line.

b ）Extremely low delay and strict synchronous playback (theoretically 83.3 μ S under the Gigabit Network, and measured delay of the whole system is within milliseconds.), which can meet the requirements of the most demanding audio system.

c）It is well compatible with existing common IT equipment (switches), and can also exchange data with professional Dante mixer or Dante set-top box (analog signal to Dante signal).

2.1.3 Number of Audio Channels Dante Supports

QA series can transmit four audio channels of 48KHz/24Bit through a cable (CD sampling rate is 44.1KHz).

2.2 Dante Control Software Installation

Please install control software “DanteController-4.1.0.5_windows.exe”.
Login into the website: www.swanspeakers.com to download. Here in after referred to as” Dante Controller”.

Download from the website and install:

1. Down the installation package “NewDante.zip” and extract and install the file.
2. Double click the downloaded file and follow the instructions on the screen to install.

Run the software after it’s installed. Here below are some methods to start the software:

1. From the desktop icon.
2. From the Start menu.

It may take some startup time (1 ~ 15s) to start the software for the first time. Please be patient.

2.3 Dante System Configuration Rename

2.3.1 Steps:

Power on QASeries machine, then start “Dante Controller” on PC and wait about one minute to automatically recognize the corresponding machine identification code, as shown in Fig. 1-1,

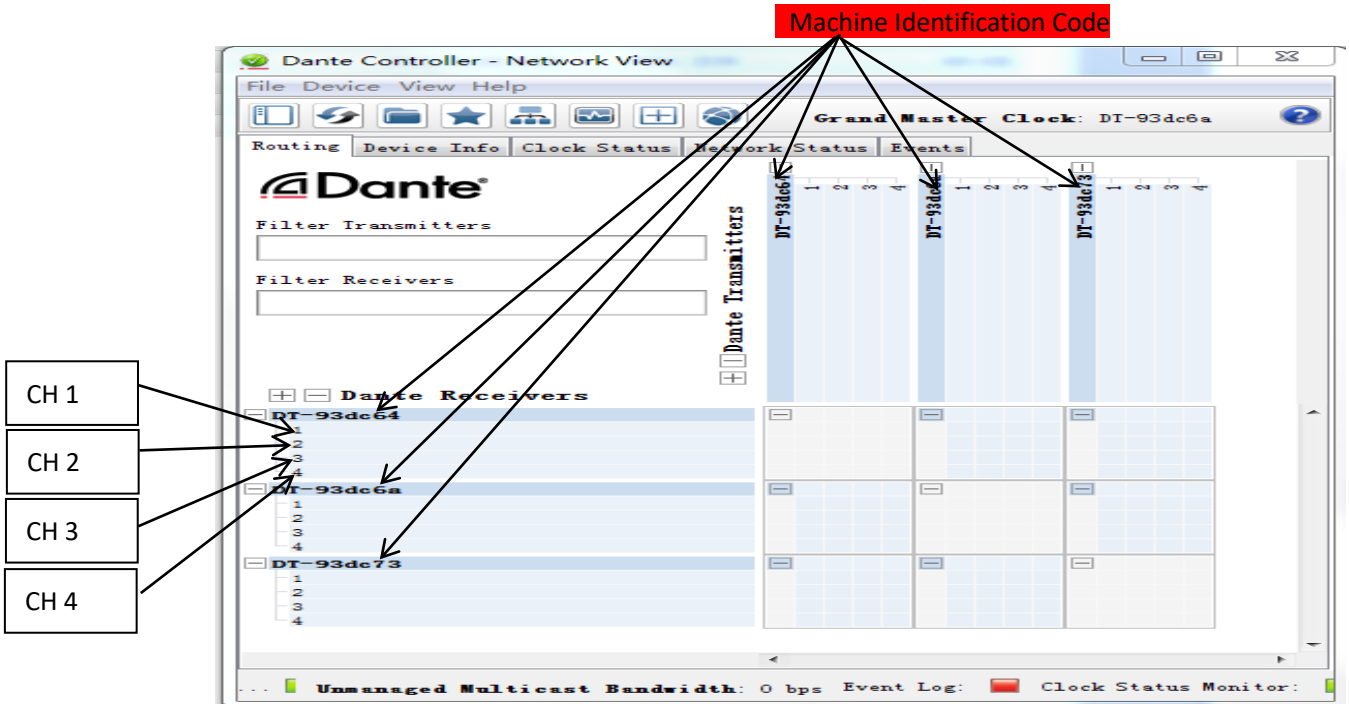


Fig. 1-1

Double click one of the machine identification codes, as shown Fig. 1-2

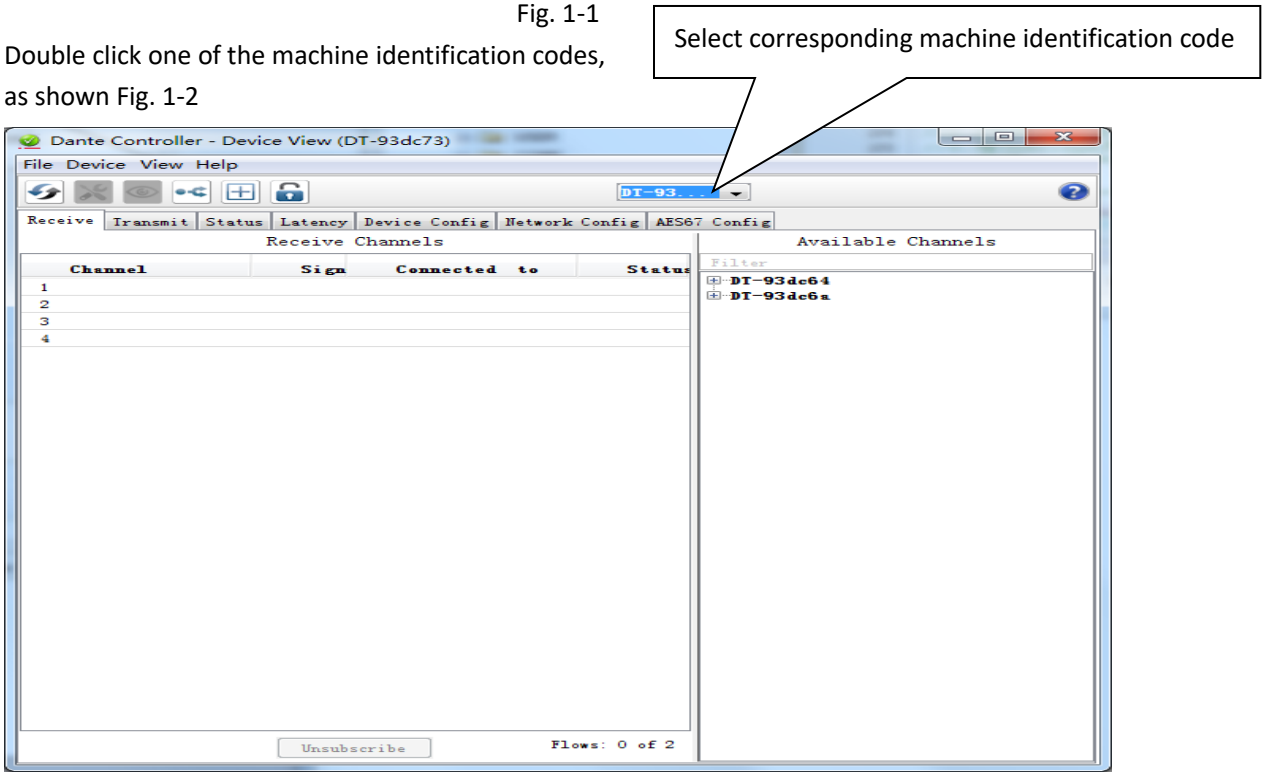


Fig. 1-2

Click" Device Config" as shown Fig. 1-3

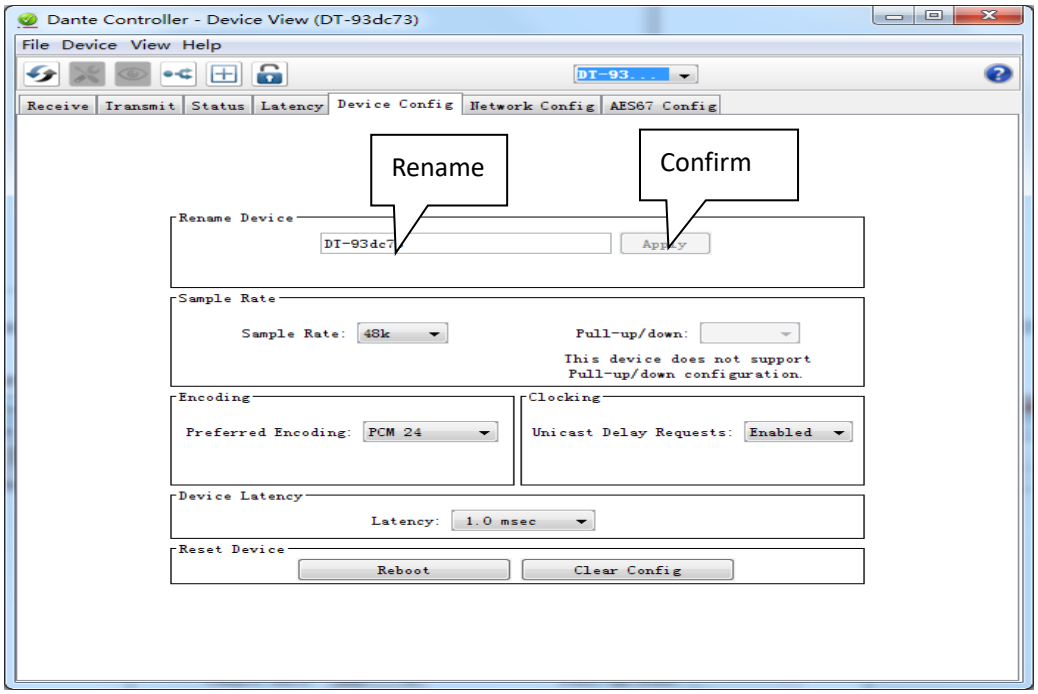


Fig. 1-3

Rename the machine in the "Rename Device" option box, then click" Apply" and choose "Yes".

2.4 Short Distance Configuration Scheme

Applicable distance: within 50meters

Equipment: one PC, one router, and QAseries machine (with Dante module).

Steps:

1. Please connect PC and QASeries to the LAN port of router through the network cable. (Refer to Fig. 1-4. Please be sure not to plug it into the WAN port.)

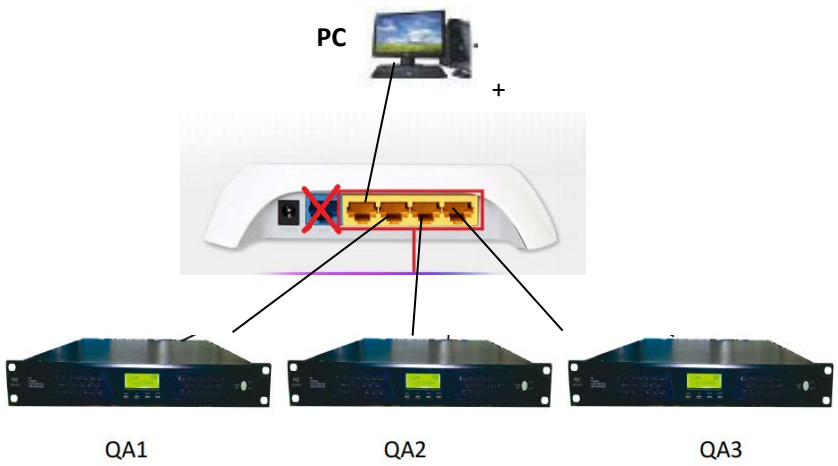


Fig. 1-4

2. First power on the router and QASeries, then start "Dante Controller" on PC and wait about one minute. System will automatically recognize the corresponding machine identification code, as shown in Fig. 1-1.

3、Connection Mode：

(1) One-to-One

As the increasing delay of each level, it's recommended to use within Level 10.

(Remark: one level represents the signal is transmitted once.)

Choose one of the QASeries (for example, the machine identification code is DT-93dc73) as the host and input analog signals (Set the signal sources of the host as "analog input", the other slaves as "Dante input"). Set the "Dante Controller" through "One-to-One" mode, as Fig. 1-5, until each QASeries machine has signal output.

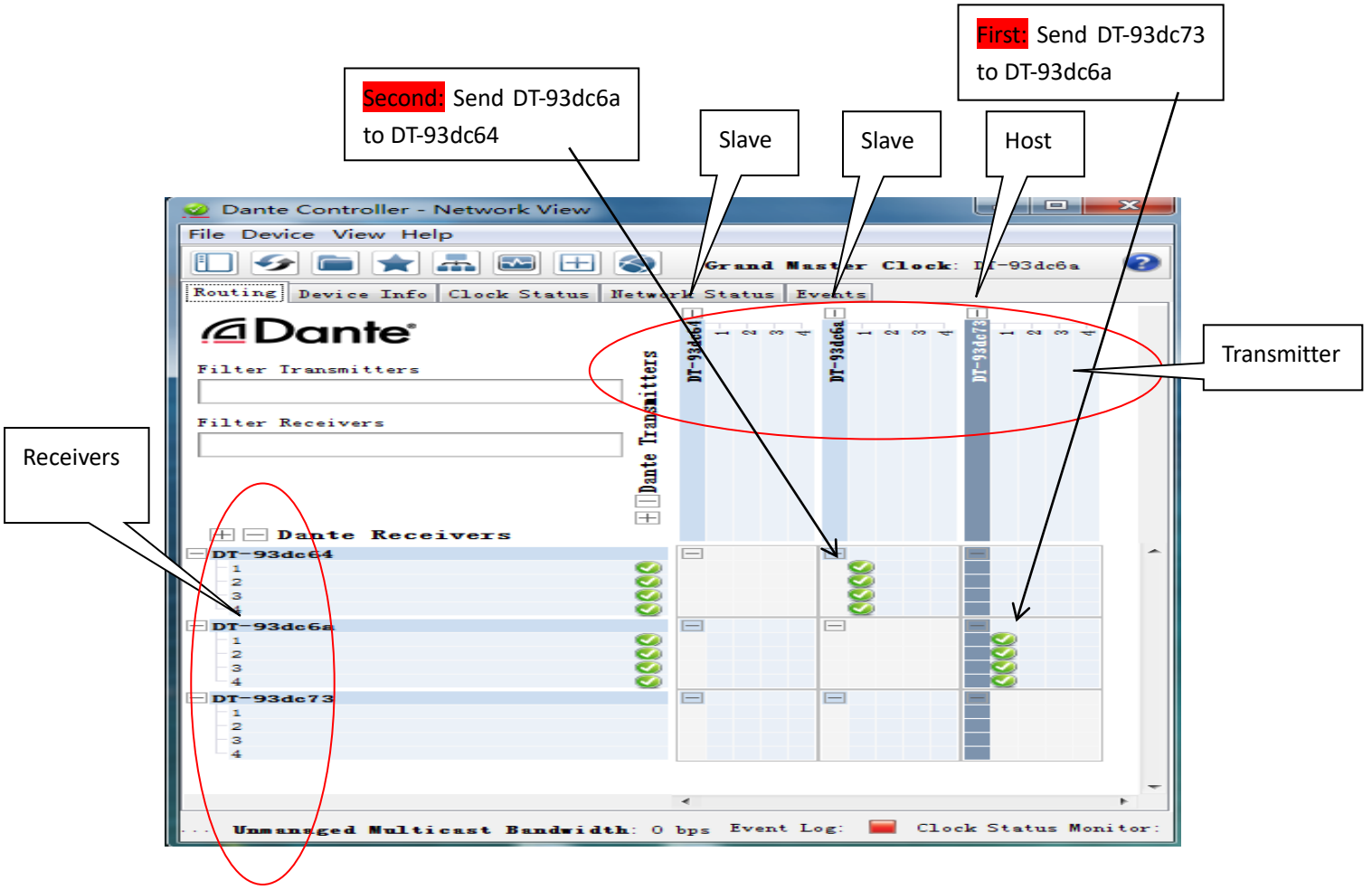
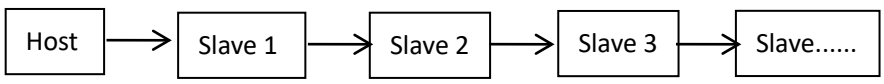


Fig. 1-5

"One-to-One" mode:



(2) "One-to-Two" mode:

Choose one of the QASeries (for example, the machine identification code is DT-93dc73) as the host and input analog signals (Set the signal sources of the host as "analog input", the other slaves as "Dante input"). Set the "Dante Controller" through "One-to-Two" mode, as Fig. 1-6, until each QASeries machine has signal output.

Note: Equipped four green √ indicates four channels (1234). Please be sure to unplug the power cord of all QA machines (Not turn off by pressing the setup button on the panel). Power on after ten seconds, reset the Dante signal distribution scheme after Dante configurator searches all

Dante devices with changed names.

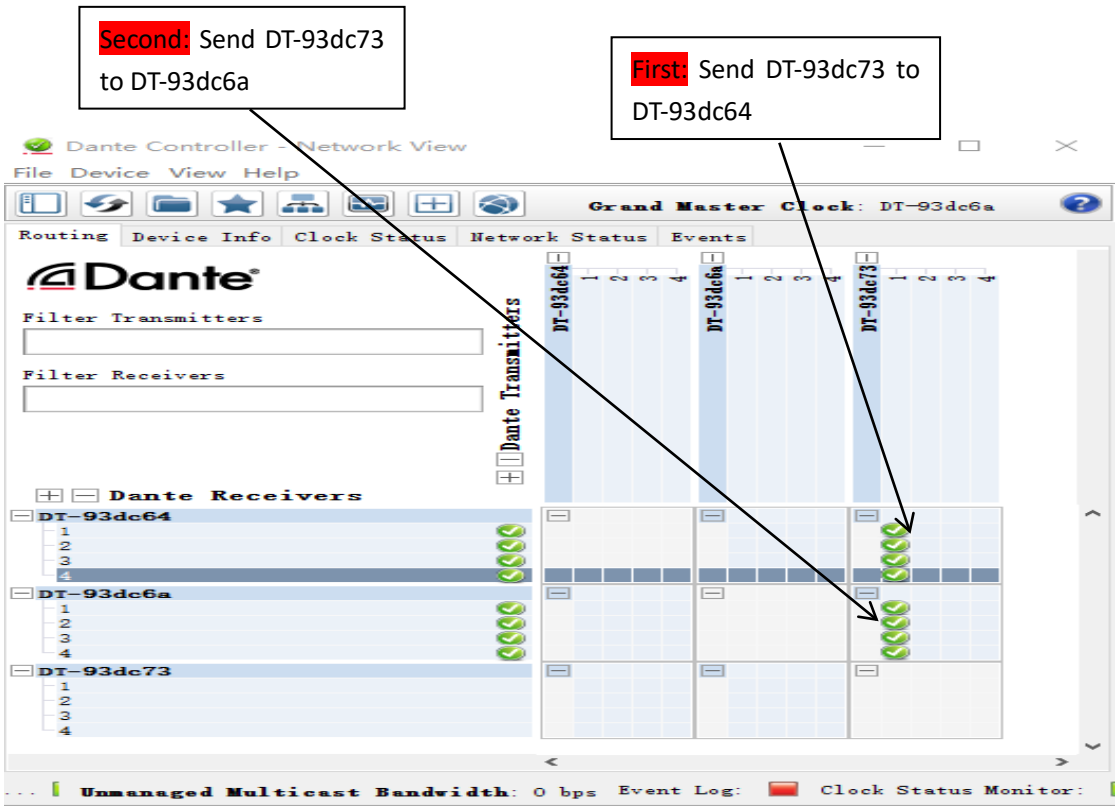
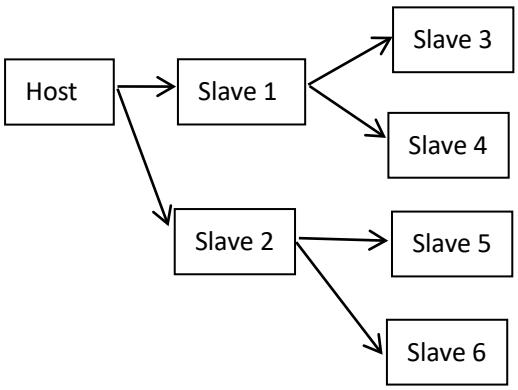


Fig. 1-6

“One-to-Two” mode:



Note: Due to the limitation of Dante system, the connection mode of signal configuration cannot be proceeded with more than "One-to-Three".

2.5 Remote Configuration Scheme

Applicable Distance: >50m (Each section is limited to 80m, and it is not recommended to exceed 10 sections in total. The delay of each section will increase by 83.3 μ S)

Equipment: one PC, one router, several switches, several QASeries machine(with Dante module).

Steps:

1. Connect PC and switch to LAN port of router, then connect the multiple QASeries machines to the port of LAN and to the port of switch through network cables (Refer to fig. 1-7, and please be sure not to plug into the WAN port).

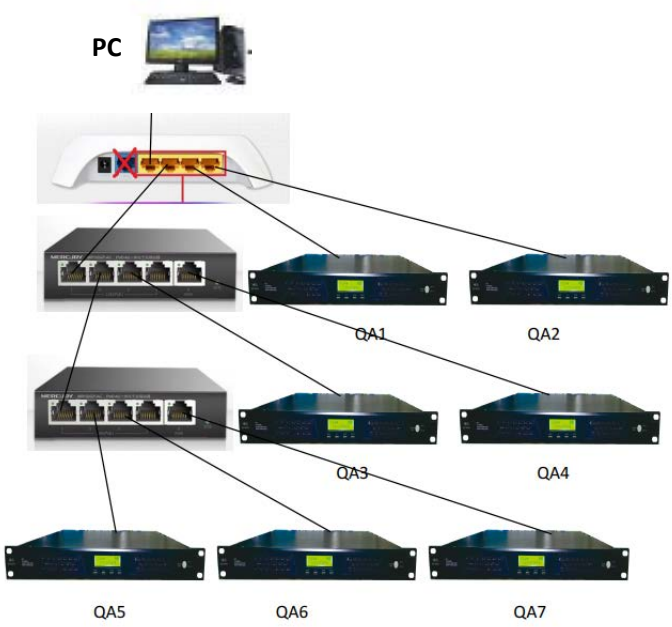


Fig.1-7

2. Power on the router, switch, QASeries machine, then start “Dante Controller” on PC and wait about one minute. System will automatically recognize the corresponding machine identification code, as shown in Fig. 1-1.

3. Connection Modes (Refer to section three *Short Distance Configuration Scheme*)

Note: Equipped four green **√** indicates four channels (1234). Please be sure to unplug the power cord of all QA machines (Not turn off by pressing the setup button on the panel). Power on after ten seconds, reset the Dante signal distribution scheme after Dante configurator searches all Dante devices with changed names.

(1) One-to-One mode

As the increasing delay of each level, it’s recommended to use within Level 10.

(Remark: one level represents the signal is transmitted once.)

Choose one of the QASeries (for example, the machine identification code is DT-93dc73) as the host and input analog signals (Set the signal sources of the host as “analog input”, the other slaves as “Dante input”). Set the “Dante Controller” through “One-to-One” mode, as Fig. 1-8, until each QASeries machine has signal output.

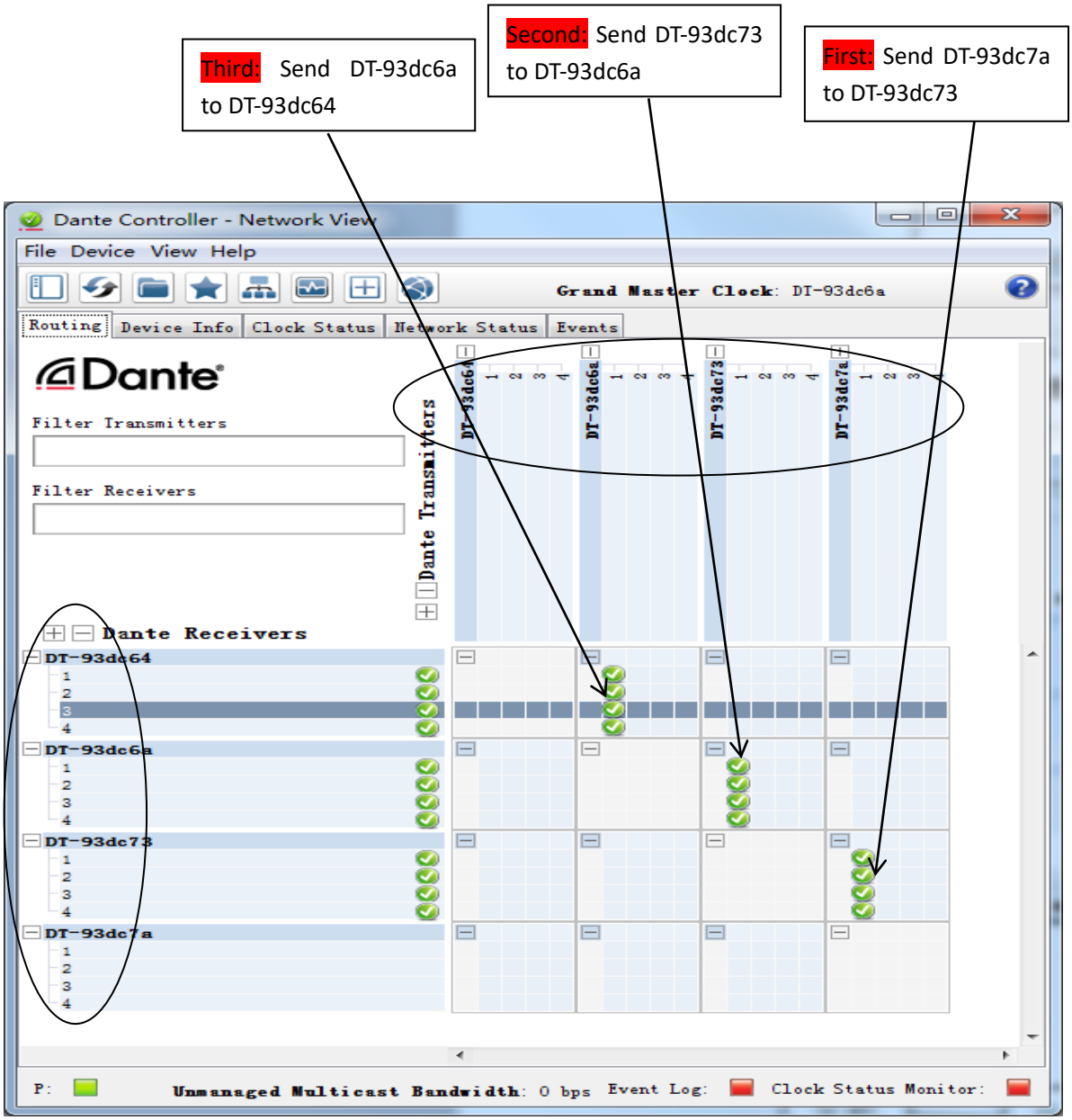
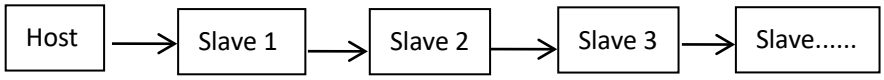


Fig. 1-8

One-to-One Mode:



(2) One-to-Two mode

Choose one of the QASeries (for example, the machine identification code is DT-93dc73) as the host and input analog signals (Set the signal sources of the host as “analog input”, the other slaves as “Dante input”). Set the “Dante Controller” through “One-to-Two” mode, as Fig. 1-9, until each QASeries machine has signal output.

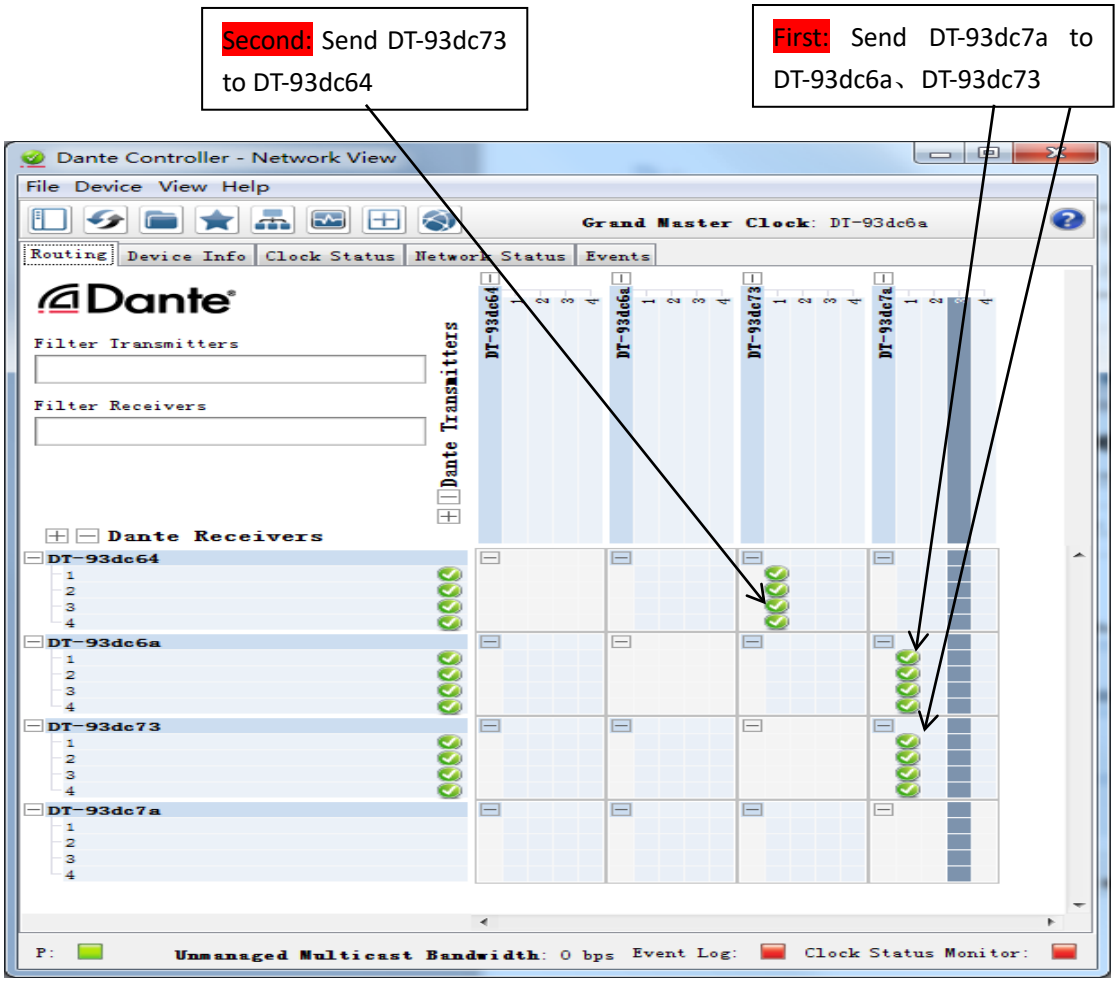
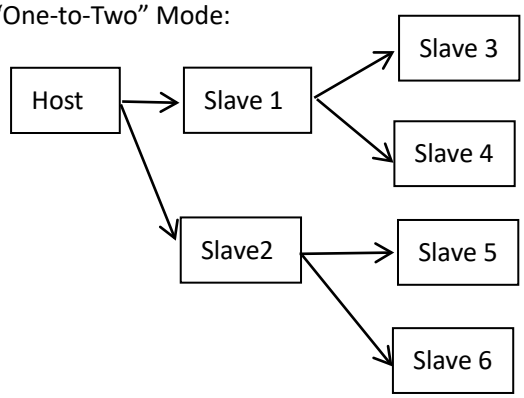


Fig. 1-9

"One-to-Two" Mode:



NOTE 1: Due to the limitation of Dante system, the connection mode of signal configuration cannot be proceeded with more than "One-to-Three".

NOTE 2: The switch must support following functions:

1. Quality of service (QoS) with 4 queues
2. Differentiated service architecture with strict priority (DSCP).

3 WiFi Operating Instructions

3.1 WiFi Connection Steps

1. First, insert the WiFi module into the USB port of the QASeries machine, then power on the machine and set it to WiFi mode:
Press the MENU key to enter the menu page "Set menu" --> use the up and down adjustment keys to select "System" --> press Enter to confirm --> use the up and down adjustment keys to select "USB/WiFi-" --> press Enter to confirm --> use the up and down adjustment keys to select "USB" or "WiFi" --> press Enter to confirm, as shown in Figure 2-1.

Fig. 2-1

2. Search for the initial WiFi "QAseries" on the PC side to connect. Initial password” 88888888”.
(If the WiFi cannot be found, please wait for refreshing or re-plug the WiFi module until “WiFi“QASeries shown.) As shown below 2-2:

Fig2-2

3. Open the corresponding host on PC, for example “HiViQASeries_V1.01.exe”, the connection status shows in red words: “**Searching Device**.” As shown below 2-3:

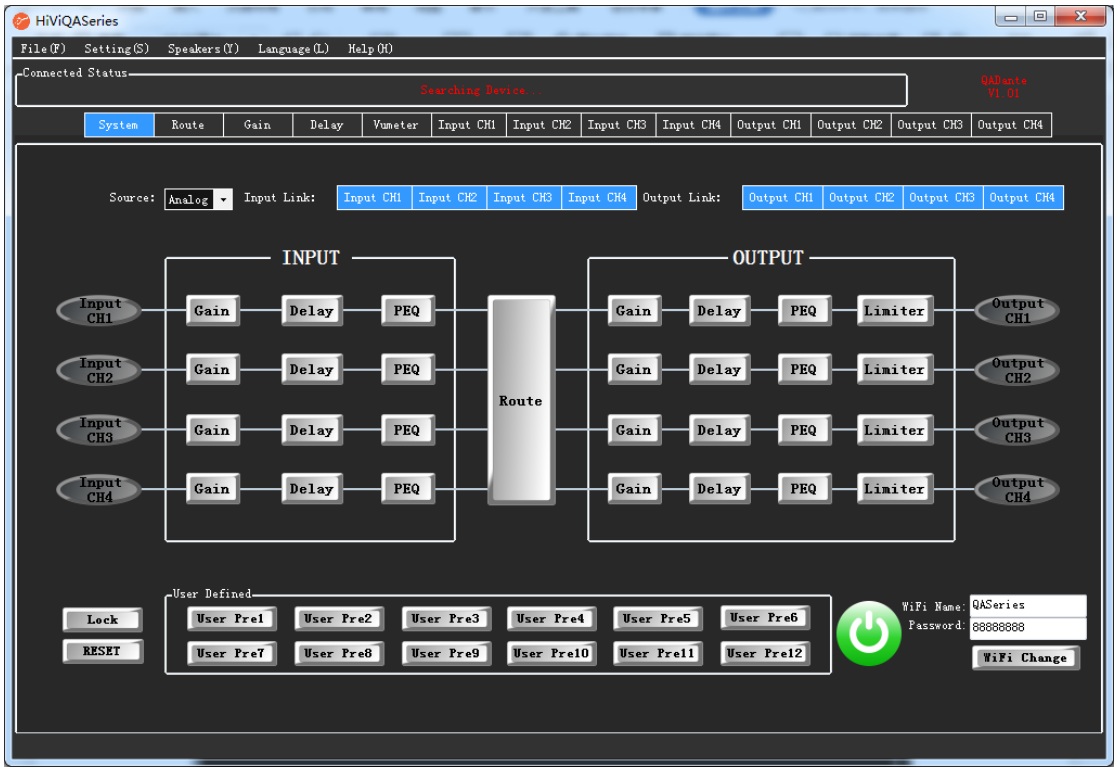


Fig. 2-3

4. Click “Settings” and select “WiFi”, as shown 2-4. If the screen displays “**Connect Success**” in green, it indicates WiFi is connected, as show 2-5, completed as shown Fig. 2-6.

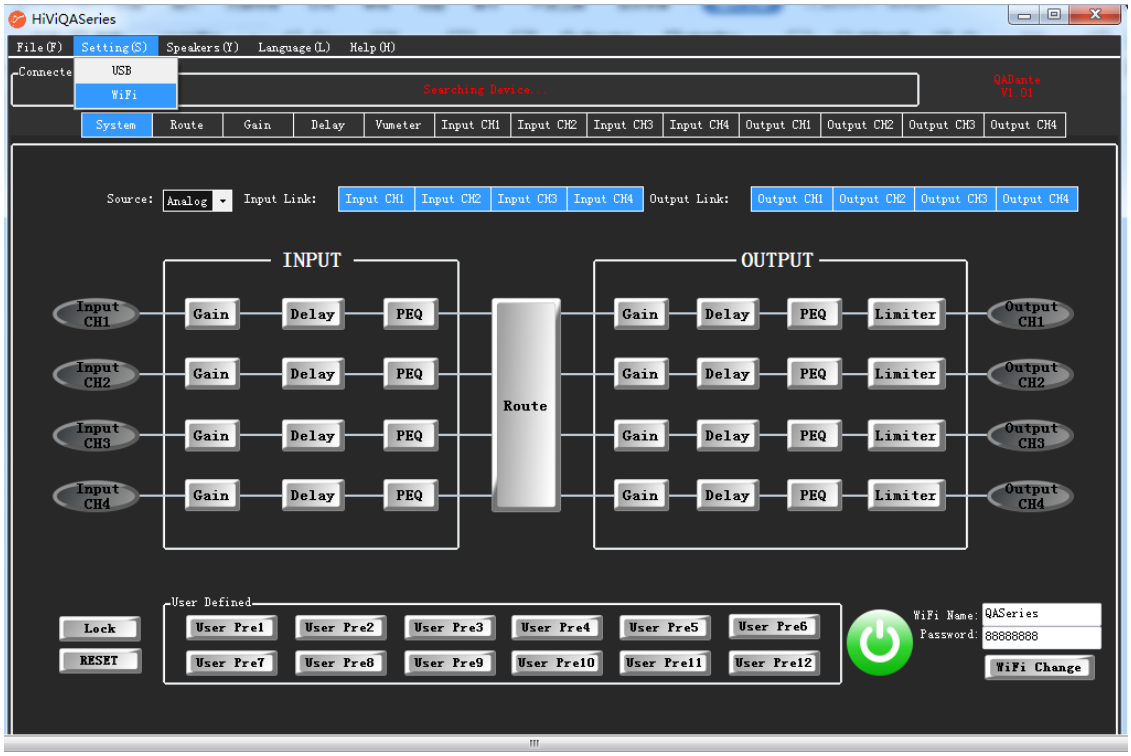


Fig. 2-4

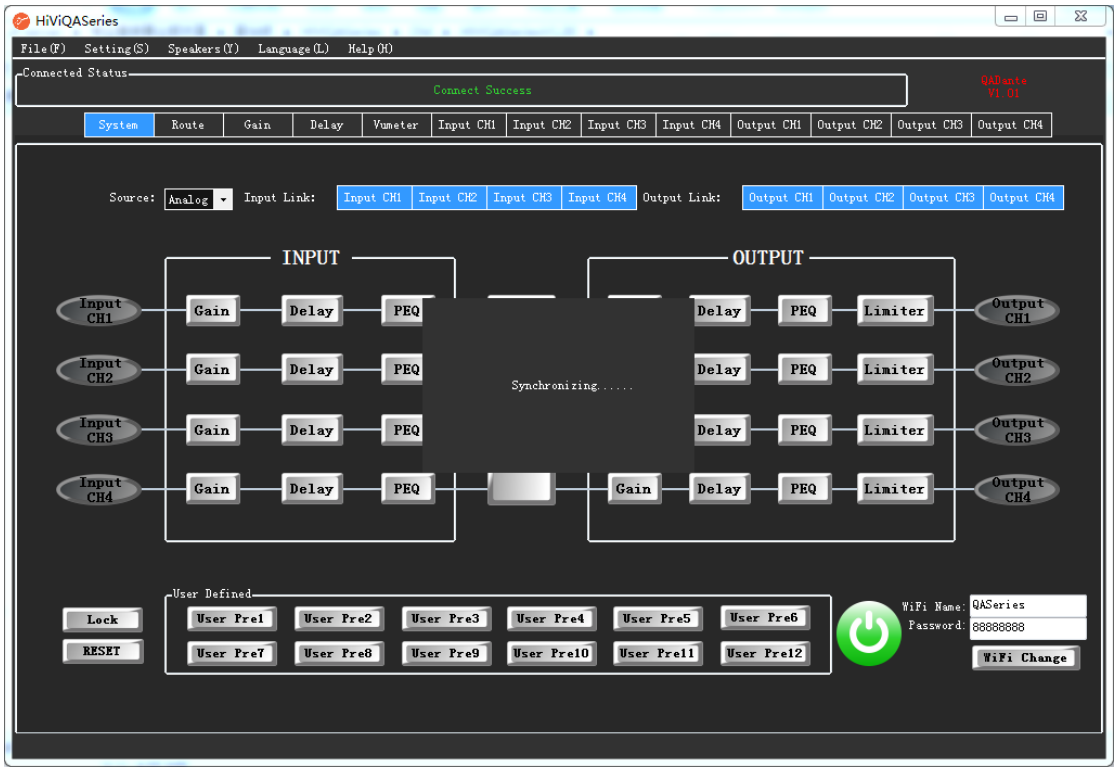

HiViQASeries
File(F) Setting(S) Speakers(Y) Language(L) Help(H)
Connected Status
Connect Success
QADante V1.01
System Route Gain Delay Vumeter Input CH1 Input CH2 Input CH3 Input CH4 Output CH1 Output CH2 Output CH3 Output CH4
Source: Analog Input Link: Input CH1 Input CH2 Input CH3 Input CH4 Output Link: Output CH1 Output CH2 Output CH3 Output CH4
INPUT
OUTPUT
Input CH1
Input CH2
Input CH3
Input CH4
Gain
Delay
PEQ
Synchronizing.....
Limiter
Output CH1
Output CH2
Output CH3
Output CH4
User Defined
User Pre1 User Pre2 User Pre3 User Pre4 User Pre5 User Pre6
User Pre7 User Pre8 User Pre9 User Pre10 User Pre11 User Pre12
Lock
RESET
WiFi Name: QASeries
Password: 88888888
WiFi Change

Fig. 2-5

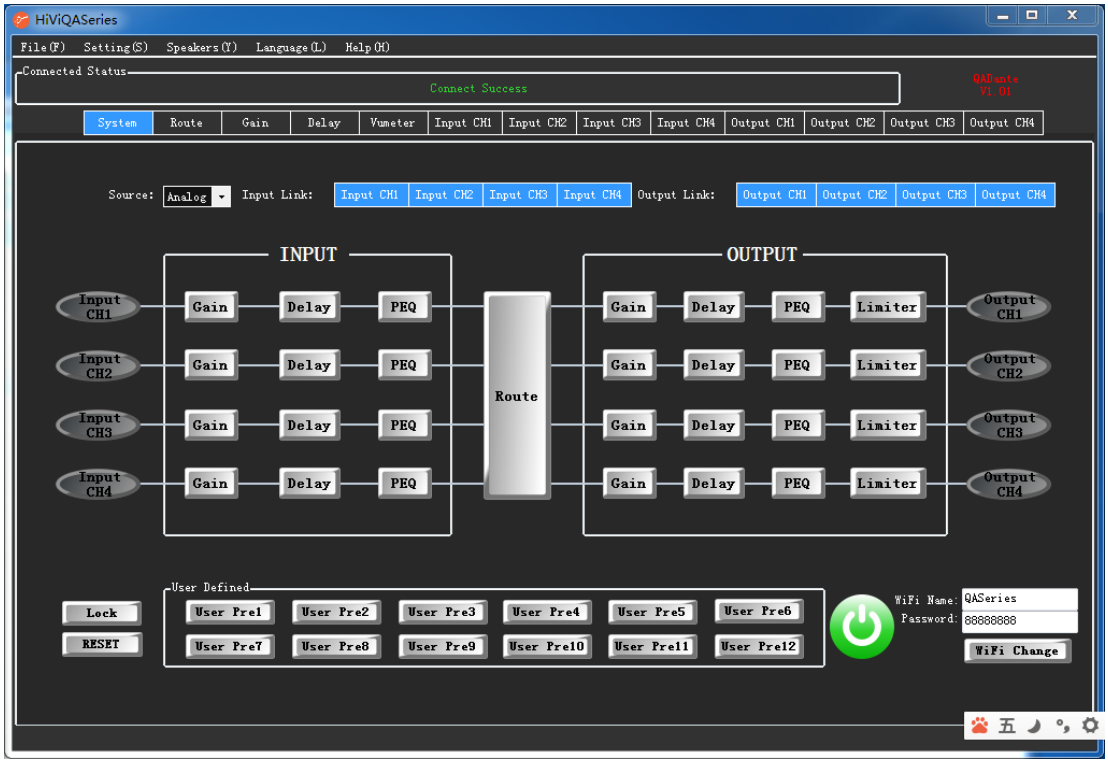

HiViQASeries
File(F) Setting(S) Speakers(Y) Language(L) Help(H)
Connected Status
Connect Success
QADante V1.01
System Route Gain Delay Vumeter Input CH1 Input CH2 Input CH3 Input CH4 Output CH1 Output CH2 Output CH3 Output CH4
Source: Analog Input Link: Input CH1 Input CH2 Input CH3 Input CH4 Output Link: Output CH1 Output CH2 Output CH3 Output CH4
INPUT
OUTPUT
Input CH1
Input CH2
Input CH3
Input CH4
Gain
Delay
PEQ
Route
Limiter
Output CH1
Output CH2
Output CH3
Output CH4
User Defined
User Pre1 User Pre2 User Pre3 User Pre4 User Pre5 User Pre6
User Pre7 User Pre8 User Pre9 User Pre10 User Pre11 User Pre12
Lock
RESET
WiFi Name: QASeries
Password: 88888888
WiFi Change

Fig. 2-6

3.2 WiFi Name and Password Modification

3.2.1 WiFi name and WiFi password are customized

1. Click system settings of the menu bar, then click “WiFi Name” or “Password” in the lower right corner to modify. Then click “WiFi Change”.

(NOTE: WiFi name and password only supports number or English characters; WiFi name supports 1-16 numbers or English characters; WiFi password supports 8-16 numbers or English characters).

Before Modification After Modification

3. After changing the WiFi name or password (if the changed WiFi name cannot be found on the PC, the WiFi module of the device needs to be re-plugged or the power cord needs to be re-plugged), connect to the new WiFi and follow the steps in section 3.1 to reconnect to the "HiVQASeries_V1.01.exe" software on the computer.

   3. When multiple devices are powered on simultaneously, their initial WiFi names are all "QASeries", so there is only one WiFi name "QASeries" displayed on the PC. After changing the name of the first device, follow the steps in section 3.1 to change the WiFi name and password of the other device.

   4. If the WiFi name and password have been changed for a long time and you forget the password when you want to reconnect to the WiFi, you can reset the device: press the MENU key to enter the "Set menu" page -> use the up and down keys to select "System" -> press Enter to confirm -> use the up and down keys to select "Reset" -> press Enter to confirm -> use the up and down keys to select "System Reset / <Yes>No" -> press Enter to confirm "Are you sure? / <Yes>No" -> press Enter to confirm -> "System Reset / <Loading....." -> return to the volume page, indicating that the reset is successful; then power on and follow the steps in section 3.1 to connect to the WiFi.

4 Upgrade instructions of lower computer)

4.1 Upgrade successful

1. Browse website www.swanspeakers.com to down corresponding upgrade file(*.bin).
Revise (*.bin) to (QA.bin) and save it to the USB (Fat32 format), then plug the USB to machine USB port.

Model Name	Upgrade software (please select the latest version)
QADante	QADante.bin
QADsp	QADsp.bin

Power on the machine and it will display “ENTER USB HOST/IAP MODEL”→“FIND THE BIN/UPDATING...”→“UPDATED SUCCESS/JUMP TO THE APP”→“Welcome HiVi/QA Series”, which indicated that the upgrade was successful.

4.2 Upgrade failed

If the upgrade fails, an error prompt will appear, such as "no found bin / update failed", "U disk can't", etc.

NOTE：Please select the corresponding upgrade software according to the product model. If the upgrade software is selected incorrectly, please select the correct software again.