

BT_Soft_Panel Instruction

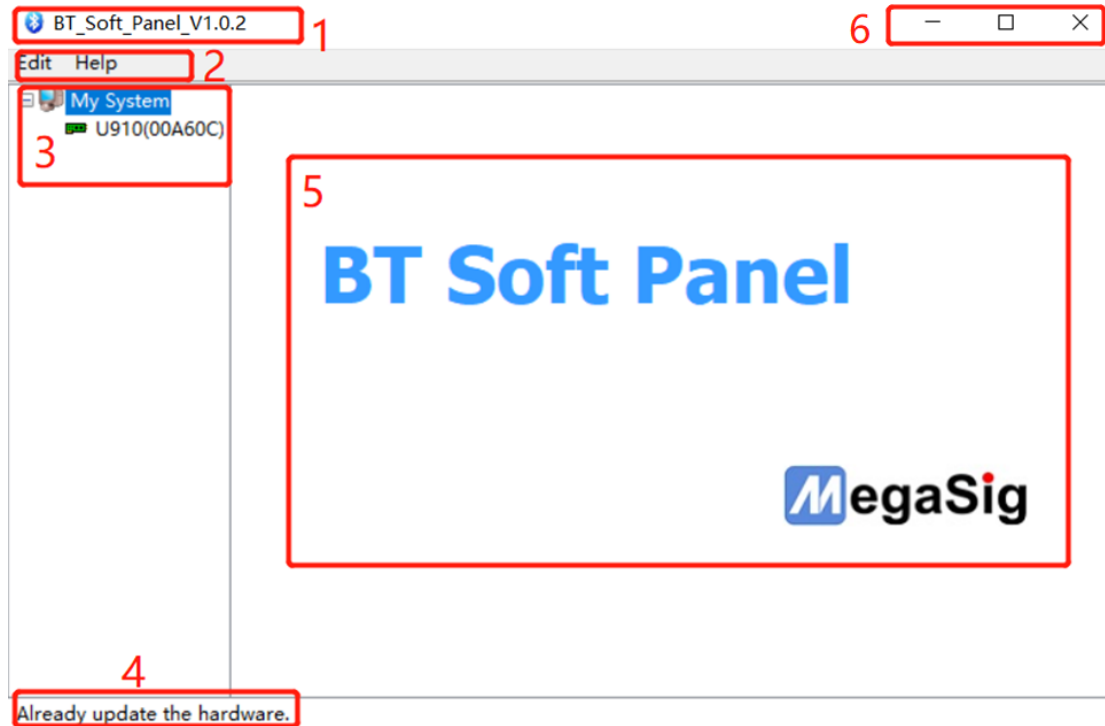
V1.0.2

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1 Overview

The main UI is concise and as show below,



Red box 1:show the name and version of software

Red box 2:show the menu of edit and help

Red box 3:show all the BT device

Red box 4:show the operation tips

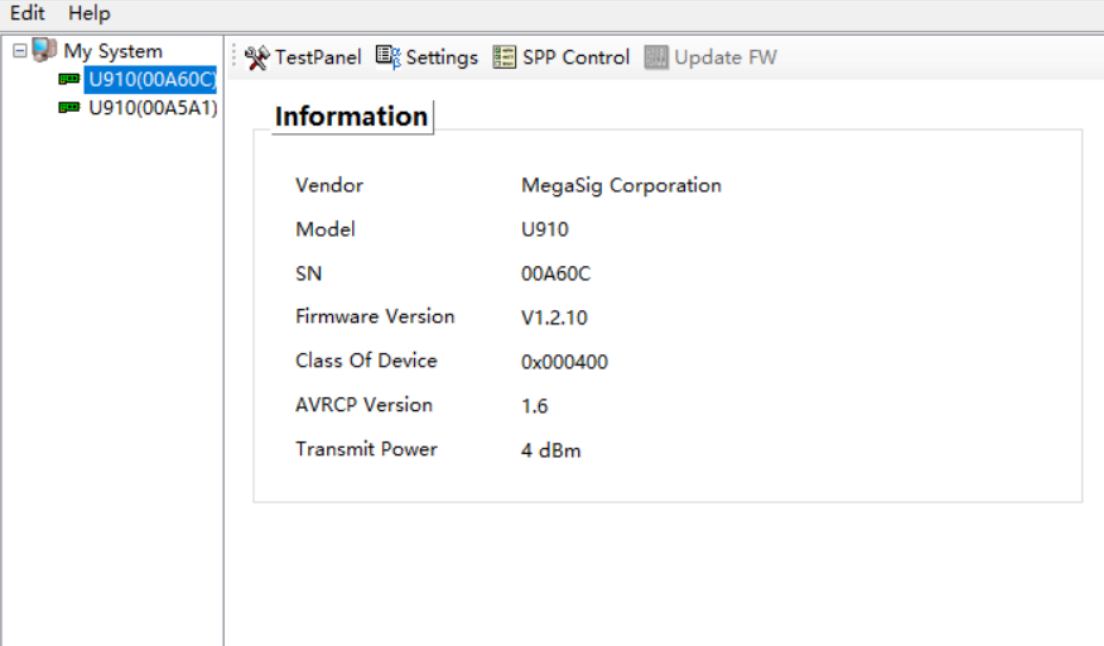
Red box 5:show the main function when the target device is clicked

Red box 6:show the zoom in \zoom out \exit of the software

2 Operations

2.1 TestPanel

Click the “TestPanel”, and another UI will be show as below,



The screenshot shows the MegaSig TestPanel interface. On the left, a tree view under 'My System' lists two devices: 'U910(00A60C)' (selected) and 'U910(00A5A1)'. The main panel displays 'Information' for the selected device:

Vendor	MegaSig Corporation
Model	U910
SN	00A60C
Firmware Version	V1.2.10
Class Of Device	0x000400
AVRCP Version	1.6
Transmit Power	4 dBm

Below the information panel, a text label reads 'Click U910(00A60C)'. A second window titled 'U910-00A60C-Cmd' is open, showing a 'Cmd' section with a 'BT Address' input field and a 'Function' dropdown menu set to 'Connect By Address'. To the right is a large 'Response' text area. At the bottom, there is a 'Send' button, checkboxes for 'Status' and 'Cmd Log' (both checked), a 'BT_Device_Name' input field, and a 'Clear Response' button.

The general method of operation is described below,

- 1) Input the “BT Address”, if know it, otherwise, we can select the function of

“Search”,and then click “Send”button to scan BT address around;

- 2) Select the function of “Connect By Address”,and click “Send” button,“Response” control will show the connection information;
- 3) If the connection is successful,the dongle will set A2DP default mode,and we can use the valid sound card channel to test the speaker of DUT,as well as we can click “Start” button to output target signal to check whether the audio link is normal as shown in the following figure,but if you use MegaSig analog dongle the PC will have no sound card channel for using,that is to say,the following UI will no exist,and you have to use other DAQ Board for testing;

U910-00A60C-Cmd
×

Cmd

BT Address

Function

Disconnect

Response

```
[21:52:46.232]Send :>CONN=1C52166B436E
[21:52:48.252]Send :>STATUS
[21:52:48.414]Recv :IDLE
[21:52:49.377]Recv :Waiting Connect
[21:52:51.212]Recv :Waiting Connect
[21:52:52.657]Recv :DEVICE=1C52166B436E
NAME=QCY-QY19
[21:52:52.977]Recv :BAT=7
[21:52:53.139]Recv :A2DP
[21:52:54.104]Recv :APT X A2DP
```

☒ Status
 ☒ Cmd Log

BT_Device_Name

Config

AI
AO

Input Cfg

AI Device

麦克风 (2-

Bit Depth

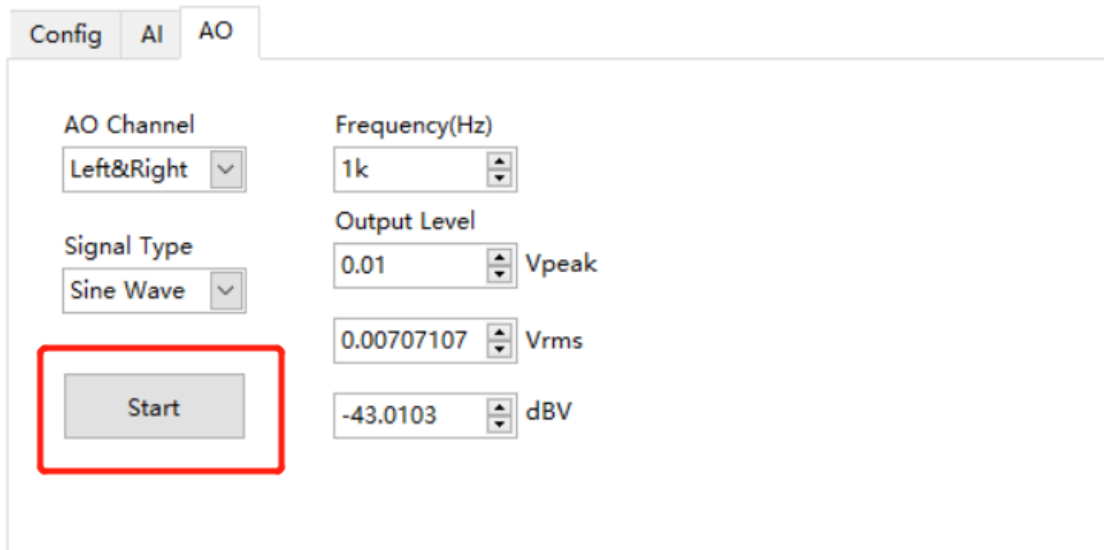
Sample Rate(S/s)

Output Cfg

AO Device

扬声器
 ✓ 扬声器 (MegaSig U910)
 扬声器 (2- MegaSig U910)
 扬声器/听筒 (Realtek Audio)

Sample Rate(S/s)



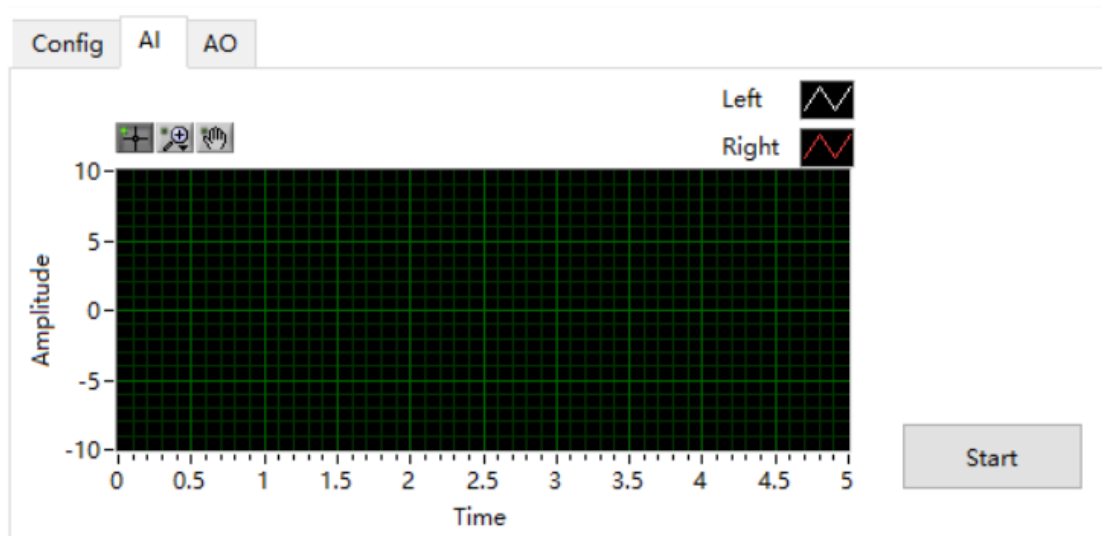
The screenshot shows the 'AO' configuration tab in the MegaSig software. The 'Start' button is highlighted with a red rectangle. The configuration parameters are as follows:

Parameter	Value	Unit
AO Channel	Left&Right	
Frequency(Hz)	1k	
Signal Type	Sine Wave	
Output Level	0.01	Vpeak
	0.00707107	Vrms
	-43.0103	dBV

- 4) If we select the function of "HFP mode", and click "Send" button, we can test the mic of DUT, and after selecting AI device, we also can get the curve of mic signal as shown in following figure;

Of course, you can design your code to control the acquisition channel of sound card in PC;

But if you use MegaSig analog dongle the PC will have no sound card channel for using, that is to say, the following UI will not exist, and you have to use other DAQ Board for testing;

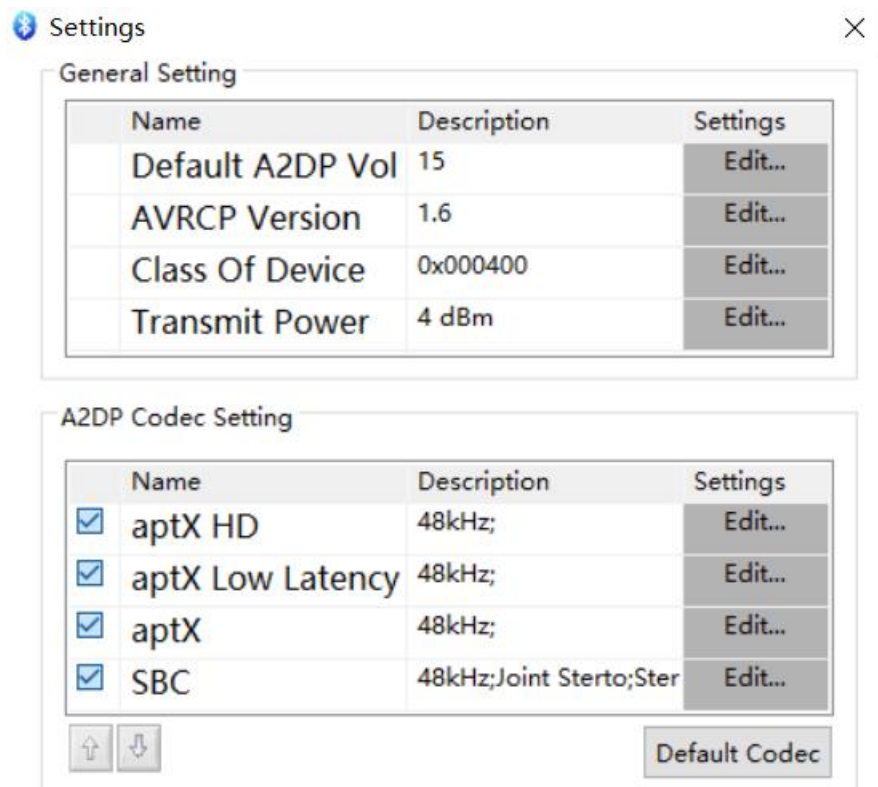


- 5) At last, we can execute the function of "Disconnect" to end the connection

or connect another headset;

2.2 Settings

Click the “Settings”, and another UI will be show as below,

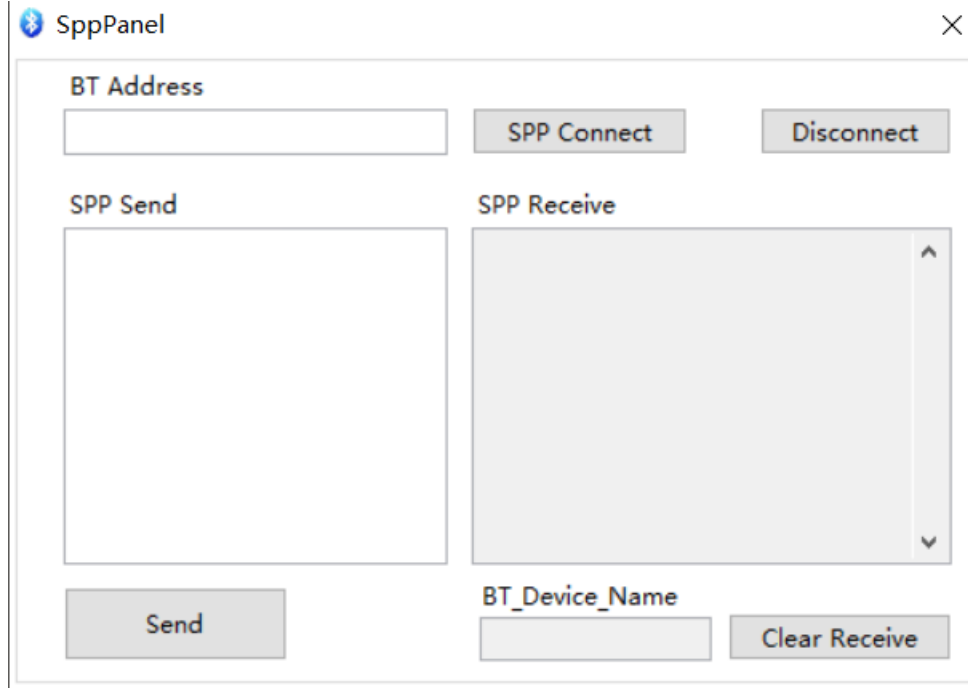


The general method of operation is described below,

- 1) Just click the “Edit” button to edit the target function, and another UI will be show for selecting;
- 2) We can modify the order of A2DP codec as well as the sample rate;
- 3) We can click the “Default Codec” for the common setting;

2.3 SPP Control

Click the “SPP Control”, and another UI will be show as below,



The general method of operation is described below,

- 1) We should input the target address, and click "SPP Connect" to wait for successful connection;
- 2) We can input the custom content, and click "Send";
- 3) If the DUT can return target info, we can get it from "SPP Receive" control;