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1. Legacy

1.1 LIMITATION OF LIABILITY

In no case and in no way, the provider of this software (AuviTran, the distributor or reseller, or any other party acting as provider) shall be liable and sued to court for damage, either direct or indirect, caused to the user of the software and which would result from an improper installation or misuse of the software. "Misuse" and "improper installation" mean installation and use not corresponding to the instructions of this manual.

AuviTran is constantly working on the improvement of the products. For that purpose, the products functionalities are bound to change and be upgraded without notice. Please read carefully the User's manual as the new functionalities will be described therein.

1.2 TRADEMARKS

All trademarks listed in this manual are the exclusive property of their respective owners. They are respected "as is" by AuviTran. Any use of these trademarks must receive prior approval of their respective owners. For any question, please contact the trademark's owner directly.

1.3 COPYRIGHT

The information in this manual is protected by copyright. Therefore, reproduction, distribution of whole or part of this manual is strictly forbidden without the prior written agreement of AuviTran.

1.4 MORE INFORMATION

Please visit our website for any question of further inquiry concerning our product range. Updates will also be posted when available.

<http://www.auvitran.com>

2 AV-WALL-DT4oB Quick Start

2.1 Power to Start-up

To start your AV-WALL-DT4oB, connect the RJ45 port to an active POE device using a CAT5E/6 cable (100Mb/s connection).



When powered, the 6 White led lights on the AV-WALL-DT4oB front face will flash and then the lights will flash alternatively until the device is switched on.

2.2 Connect the AV-WALL-DT4oB to an IP/Dante network

The connection of your AV-WALL-DT4oB to the IP/Dante network is done via the same Ethernet CAT5e/6/7 cable used for the power supply.

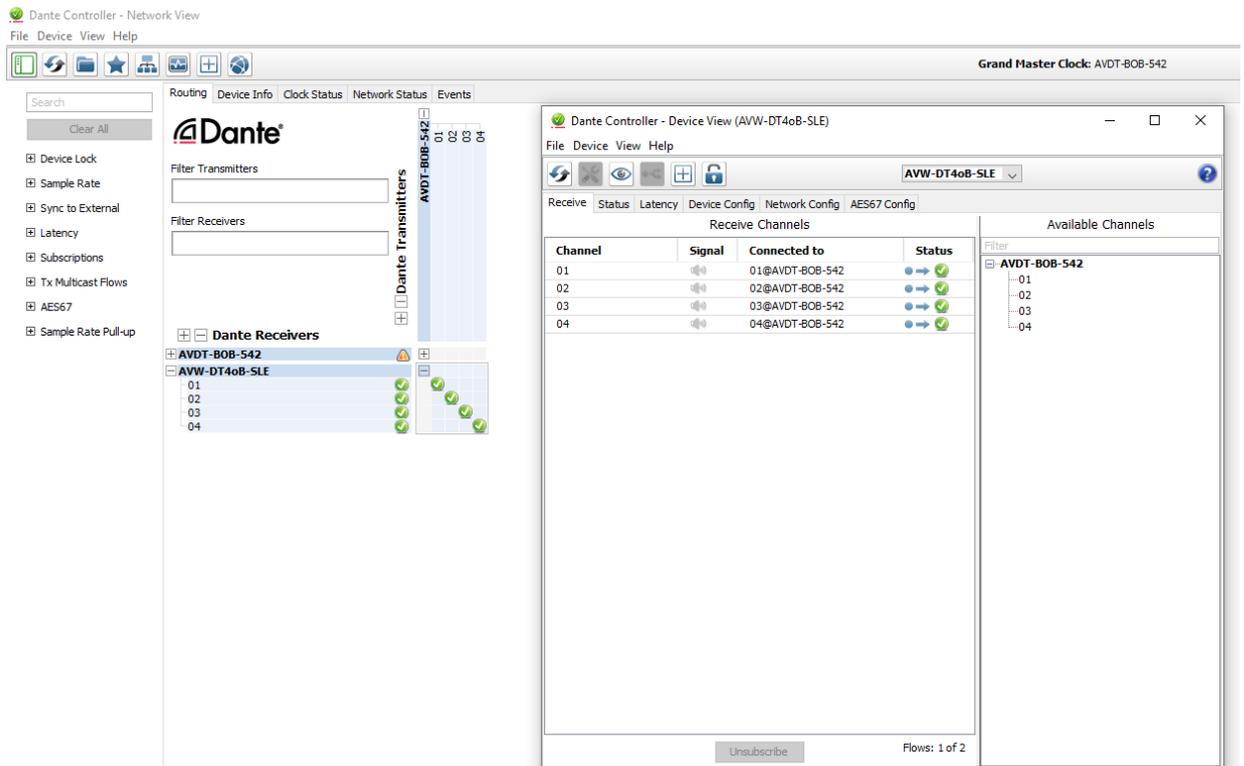
AV-WALL-DT4oB has a unique IP network addresses and a unique name to control Dante and AV-WALL-DT4oB settings:

1. The IP address is preset by default at factory to be set automatically using a DHCP server or using APIPA address (169.254.xxx.xxx/16) if no DHCP server is detected by the device. The IP address can be fixed using the Dante controller
2. The AV-WALL-DT4oB name is preset at factory at "**AV-WALL-#**" where # is its serial number. The Dante name of an AV-WALL-DT4oB can be changed by the Dante Controller.
 - ⇒ AV-WALL-DT4oB serial number 145 has Dante name "**AV-WALL-145**" as factory preset
3. The AV-WALL-DT4oB setting can be done locally via the front face rotative button of the AV-WALL-DT4oB or via AVSMonitor (Software downloadable on www.auditran.com)

2.3 AV-WALL-DT4oB Dante settings

The AV-WALL-DT4oB Dante settings are done via the standard Audinate Dante Controller.

1. Download Dante Controller on the Audinate web site at the following web address <https://www.audinate.com/products/software/dante-controller>
2. Install Dante Controller by double clicking on the download file.
3. Start Dante Controller to detect your AV-WALL-DT4oB Dante devices and control settings

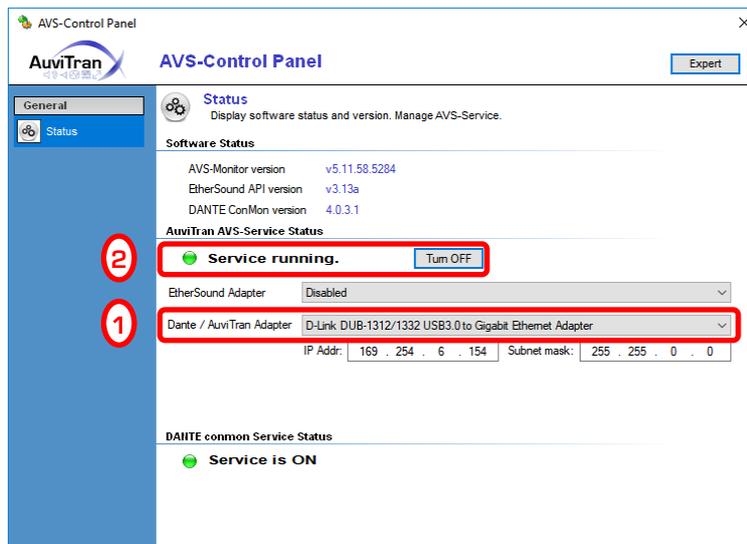


4. To change AV-WALL-DT4oB name, Double click on the device label
5. Select "**Device Config**" tab in the new windows and modify the "**Rename Device**" field

2.4 Access to AV-WALL-DT4oB User Interface via AVSMonitor on Windows OS

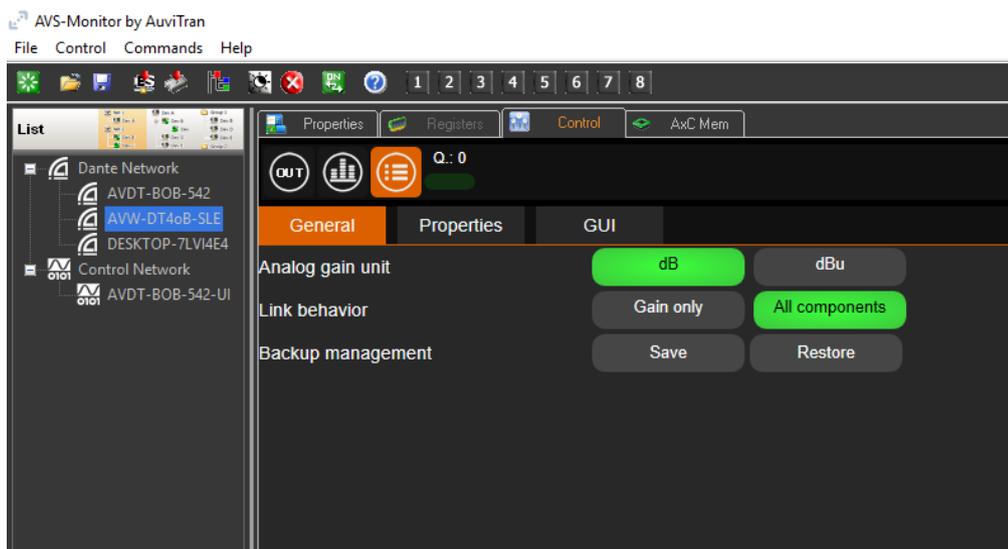
The AV-WALL-DT4oB User Interface can be accessed using AVSMonitor on Windows OS:

1. Download Auvitrans AVS-Monitor free software for windows 7/8/10 available at the following web address <https://www.auvitran.com/software>
2. Install AVS-Monitor by double clicking on the download file.
3. Using AVS-Control Panel
 - 3.1. Select the NIC card that must be used by Dante /Auvitrans Adapter
 - 3.2. Run the service



4. Start AVS-Monitor

- 4.1. The AV-WALL-DT4oB connected to the network will automatically appears in the “Dante Network”
- 4.2. Select the AV-WALL-DT4oB in the left list called “Dante network” and” “Control” Tab in the right windows as describe below



- 4.3. See chapter 4 for interface description

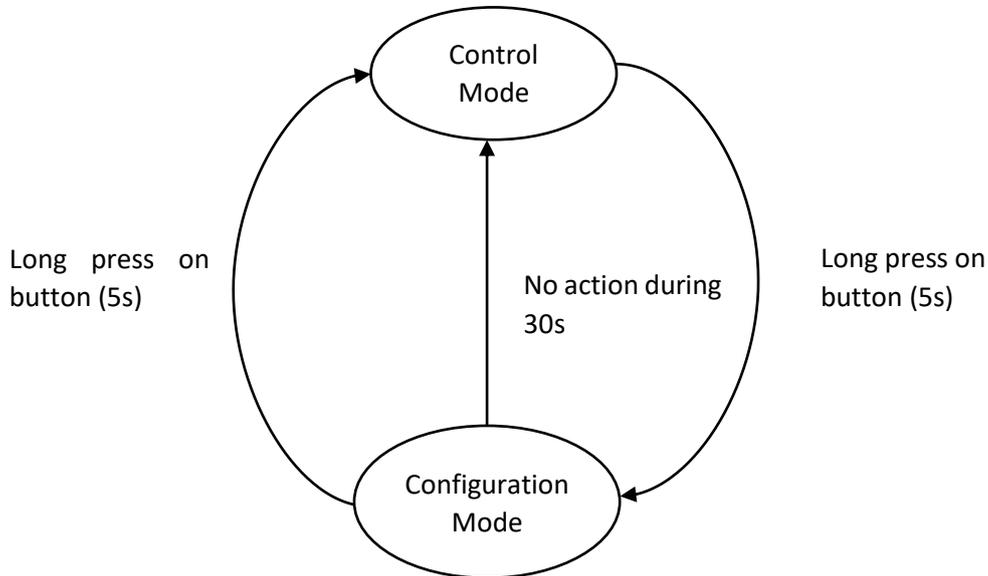
Notice:

- If your device doesn't appear, your network configuration is probably not good. Return to AVS-Control-Panel using "Edit/Control panel" menu and reselect another network or check if your PC is in the same network that the AV-WALL-DT4oB

3 AV-WALL-DT4oB setting via rotative push-button functions

The AV-WALL-DT4oB DT4oB has 2 modes of operation sequences:

- The "Control" mode
- The "Configuration" mode



3.1 Control mode

The Control mode is activated by pressing the push-button briefly. The parameter we are acting on is flashing. Another brief press will pass to the next parameter and the next LED will flash.

The Control mode permits to act on the AV-WALL-DT4oB DT4oB:

- Change the gain
- Change the source of outputs
- Play / Pause a paired Bluetooth device

3.1.1 Change the gain

Screen	LED Actives	Stream changed	Action on the button	Action
Out 1: Outdoor- Stage3 G: -3db	Gain On + 1 blinking	Out1 (XLR)	Turn left	Decrease the gain
			Turn right	Increase the gain
			Push	Go to "Out1" source control
Out 2: Outdoor- Stage4 G: 0db	Gain On + 2 blinking	Out2 (XLR)	Turn left	Decrease the gain
			Turn right	Increase the gain
			Push	Go to "Out2" source control
Out Blu: Entrance Speaker G: +5db	Gain On + 3 blinking	Out3 L/R (Mini jack or Bluetooth)	Turn left	Decrease the gain
			Turn right	Increase the gain
			Push	Go to "Out Bluetooth" source control

Notices:

- The gain is highlighted when changing its value.
- The gain LED is "On" when acting on the gain.
- The stream's LED we are acting on is blinking.

3.1.2 Change the source

Screen	LED Actives	Stream changed	Action on the button	Action
Out 1: Outdoor- Stage3 G: -3db	Source On + 1 blinking	Out1 (XLR)	Turn left	Go to the next Dante device
			Turn right	Go to the previous Dante device
			Push	Go to "Out2" gain control
Out 1: Outdoor- Stage4 G: 0db	Source On + 2 blinking	Out2 (XLR)	Turn left	Go to the next Dante device
			Turn right	Go to the previous Dante device
			Push	Go to "Out Bluetooth" gain control
Out 1: Entrance Speaker G: +5db	Source On + 3 blinking	Out3 L/R (Mini jack or Bluetooth)	Turn left	Go to the next Dante device
			Turn right	Go to the previous Dante device
			Push	Go to Bluetooth Control

If the labels characters number is inferior or equals to 7 the device switch automatically to a larger font as show below.



Other behavior and display configuration are also available, refers to the section [3.3](#) to know more about it.

3.1.3 Bluetooth Stream Control

If an output Bluetooth device is paired (Bluetooth speakers, earphones) the user can set the pairing status by turning left or right the button.

Action on the button	Action
Turn left	Select the next Bluetooth menu action
Turn right	Select the previous Dante device
Push	Go to the selected option

Screen	Action
⌘ NEXT PHANTOM Speaker Playing	Go to Bluetooth status (play/pause) setting
⌘ SEARCH PHANTOM Speaker Playing	Search for Bluetooth device to be paired
⌘ RESET PHANTOM Speaker Playing	Reset Bluetooth, force disconnection of the Bluetooth devices

Bluetooth handle errors:

ERROR PA: Device fails to pair, probably the device is already used by another equipment or is no more connected.

ERROR OP: Device fails to open; the device might not support audio Bluetooth playback.

If these errors occur, it is strongly recommended to reset the Bluetooth module and all the connections. To reset the Bluetooth device refers to the section Bluetooth Configuration: Reset & Unpair ALL

3.1.3.1 Bluetooth device search & pairing

When "SEARCH is chosen the Bluetooth discovery process begin.

Wait message is displayed with a countdown of 8s until a device is found. After the discovery the user can select a device to be paired in the list. The number of found devices and the current selected devices is indicate under the name of the Bluetooth device.

Screen	Action on the button	Action
Device 1 1 / 2	Turn left	Go to the previous Bluetooth discovered device
Device 2 2 / 2	Turn right	Go to the next Bluetooth discovered device

The user has the option to not pair to Bluetooth device by selecting the item number 0 "Not Paired"

3.1.3.2 Bluetooth Playing Status

Action on the button	Action
Turn left	Select the next Bluetooth menu action
Turn right	Select the previous Dante device
Push	Go to the selected option

Screen
Bluetooth Pairing PHANTOM Speaker NEXT

The default status of the Bluetooth after pairing is pause. If pairing is successful, user can set Play or Pause action on the Bluetooth stream

Screen	Correctly Paired Device
📶 PAUSE PHANTOM Speaker Play	Go to Bluetooth status (play/pause) setting
📶 PLAYING PHANTOM Speaker Pause	Search for Bluetooth device to be paired

If no device is set, or error occur during pairing the user can continue and go to the passive state of the device or go back to the Bluetooth menu by selecting and pressing retry.

Screen	No Paired Bluetooth Device / Pairing Error
📶 ERROR PHANTOM Speaker NEXT	Go to passive state
📶 ERROR PHANTOM Speaker RETRY	Go to Bluetooth menu
📶 OFF NO DEVICE NEXT	Go to passive state
📶 OFF NO DEVICE RETRY	Go to Bluetooth menu

3.1.3.3 Bluetooth Reset & Unpair

If some pairing errors occurs, it is safer to reset the Bluetooth module. To do so, select the “RESET” option. It may take few seconds before all connections close and the module reboot.

3.2 Configuration mode

The Configuration mode is activated by pressing the push-button for at least 5s.

When in configuration mode, the user can set these parameters in this order:

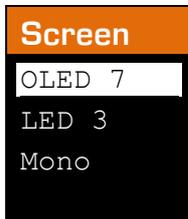
- [Screen brightness](#)
- [LEDs brightness](#)
- [Output sources selection mapping modes](#)
- [Gain locking](#)

Note: Each parameter access can be deactivated. If no access to any of those parameters is given, the configuration menu is bypassed, and device remains in control mode.

3.2.1 Screen brightness

Brightness change are directly visible on the screen. Adjust range goes from 0 to 15.

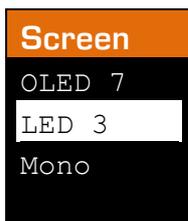
- Turn left to decrease the screen's brightness
- Turn right to increase the screen's brightness.
- Press shortly the button to set the next option: LEDs brightness.
- Press the button for 5s to exit the configuration mode and return to control mode



3.2.2 LEDs brightness

During this setting all LEDs are activated:

- Turn left for decreasing the brightness
- Turn right to increase the brightness
- Press shortly the button to set the next option: Sources mapping modes.
- Press the button for 5s to exit the dimmer mode and return to control mode



3.2.3 Sources mapping modes

Source mapping modes: 3 modes are available currently:

- Mono: Outputs sources and gains are mapped independently
- Stereo: Outputs sources are mapped by group of 2 channels.
 - o Out1: Radio Left, Out2: Radio_Right.
 - o Gain of Out1 and Out2 are set equals when changed on AV Wall DT40 device.
- Grouped: Set all the outputs to the same source.
 - o Gain of Out1 and Out2 and Out3 L/R are set to equals when changed on the AV Wall D4TO device.



3.2.3.1 Stereo mode

Screen	LED Actives	Stream changed	Action on the button	Action
Out 1+2: Outdoor- Stage3 G: -3db	Led SRC On Led 1+2 blink- ing	Out1 (XLR)	Turn left	Go to the next Dante device
			Turn right	Go to the previous Dante device
			Push	Go to "Out2" gain control
Out Blu: Outdoor- Stage4 G: 0db	Led SRC On Led 3 blinking	Out2 (XLR)	Turn left	Go to the next Dante device
			Turn right	Go to the previous Dante device
			Push	Go to "Bluetooth" gain control

3.2.3.2 Grouped mode

Screen	LED Actives	Stream changed	Action on the button	Action
Group: Concert Hall G: +5db	Led SRC On Led 1+2+3 blinking	Out1, Out2, Out3 (L/R) Mini jack or Bluetooth	Turn left	Go to the next Dante device
			Turn right	Go to the previous Dante device
			Push	Go to Bluetooth Control

3.2.3.3 Unavailable devices handling & Dante remote control.

If a source is not available on the network the user is notified after few seconds by a question mark on the output title.

- If the current source is changed remotely via Dante controller, there is 2 different case:

- The source is already register as a preset, then its label is normally displayed.
- The source isn't register as a label then the Dante channel and device currently connected are displayed.

Unavailable device

```
Group: ?
Concert
Hall
G: +5db
```

Unregister devices sources appearance

```
Group:
01@AVDT-
BOB-542
G: +5db
```

3.2.4 Gain lock

Once the gain lock is set the user cannot change the output gain on the device, however it is still possible to do it on AVS Monitor.

- Turn right to unlock the gain control
- Turn left to lock the gain control

Screen	Action on the button	Action
Gain Off	Turn left	Lock the gain control
Gain On	Turn right	Unlock the gain control

3.2.5 Source lock

Once the source lock is set, for every output, the user cannot change the sources.

- Turn right to unlock the source control
- Turn left to lock the source control

Screen	Action on the button	Action
Src Off	Turn left	Lock the source control
Src On	Turn right	Unlock the source control

3.3 Other operating modes and options

An operating mode set automatically a group of parameters and redefine the general behavior of the AVWALL i.e. display modes, audio mapping modes, gain control and LEDs controls behaviors.

AVWALL display modes is option which change the look of the control modes:

gain and source control on the same screen or not.

For instance, you can see how looks an interface configured in source and gain on separate screen, with a custom channels mapping behavior:

- Gain control:

Screen	LED Actives	Stream changed	Action on the button	Action
Gain: -9db	Gain On + 1 blinking	Out 3-4 (mini jack)	Turn left	Decrease the headphone output gain
			Turn right	Increase the headphone output gain
			Push	Go to source control

- Source control:

Screen	LED Actives	Stream changed	Action on the button	Action
MIC1	Source On + 1 blinking	All outputs (XLR + mini jack)	Turn left	Go to the next Dante device
			Turn right	Go to the previous Dante device
			Push	Go to headphone gain control

In this mode labels size are automatically set as show below:

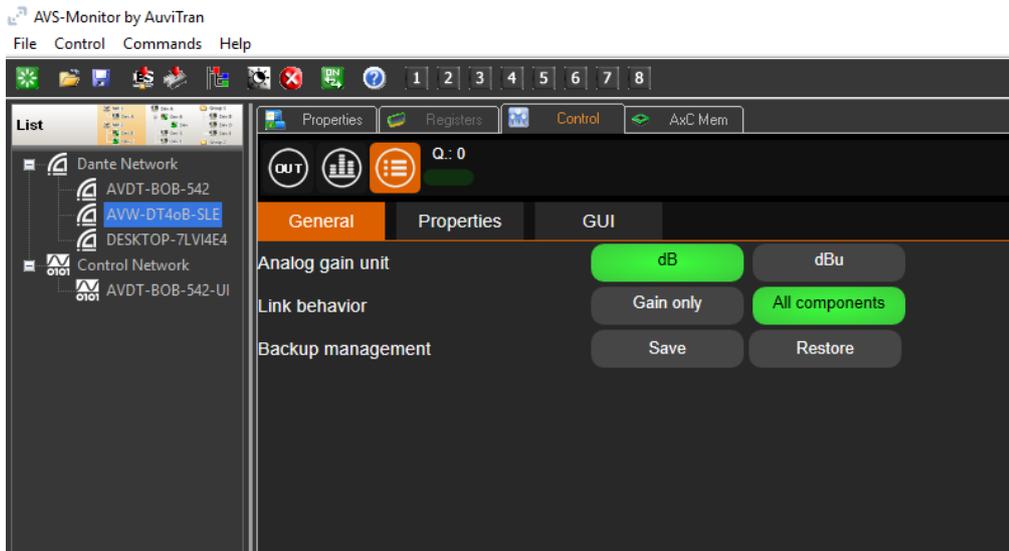
Labels appearance		
Short labels	Medium labels	Long labels
MIC1	Arbitrator 4	FRANCE TELVISIO N 2
Up to 4 characters	Up to 14 characters	Up to 32 characters

- It is possible to disable or enable the access to the configuration menu or only some options from it.
- One can also disable/enable access to the Bluetooth control.

4 AV-WALL-DT4oB control using AVS-Monitor

4.1 “General” menu

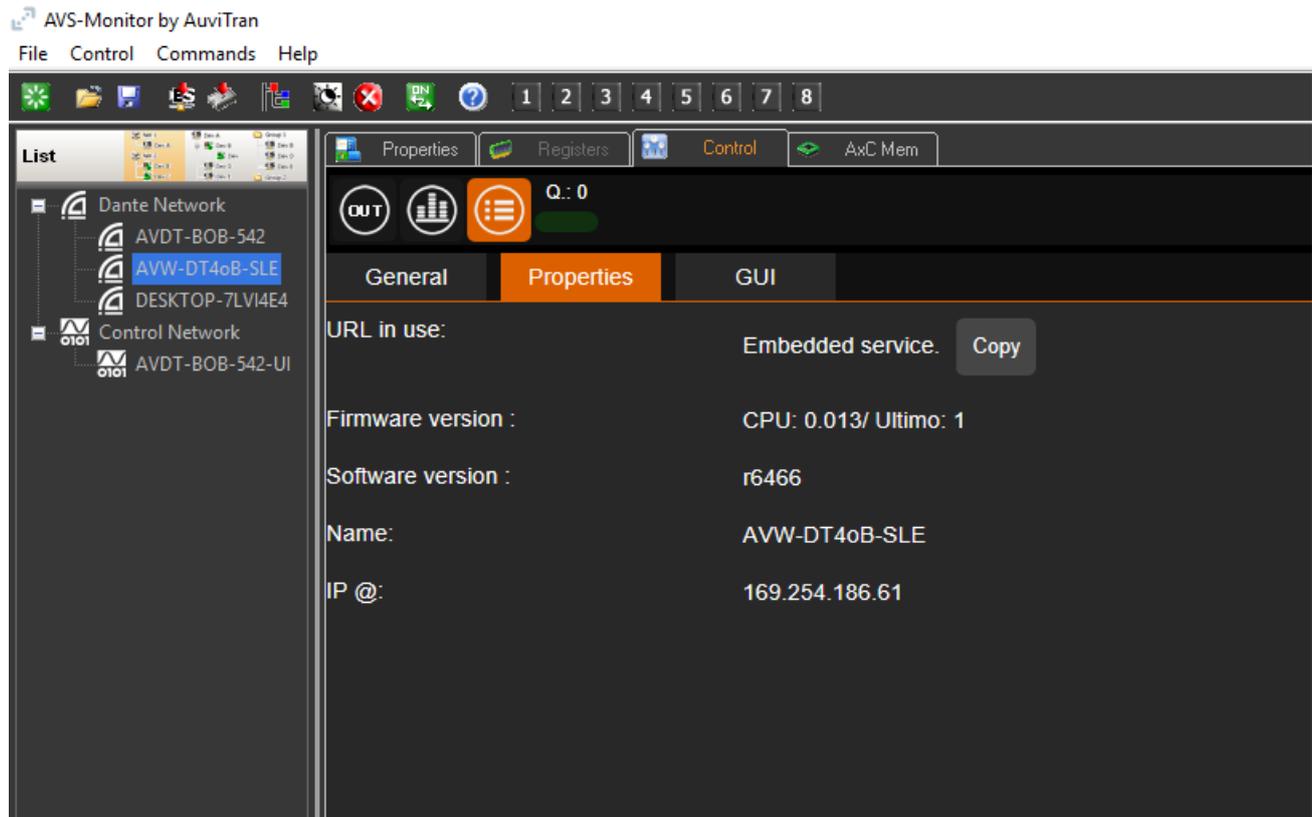
This menu enables to change the behavior of the interface



1. **Analog gain unit** defines the unit of gain:
 - 1.1. Can be select in dB or dBu
2. **Link Behavior** defines which parameter are linked when the link button is set in the “In” interface
 - 2.1. Only Gain when “Gain Only” is Green (i.e. selected)
 - 2.2. All parameters are linked when “All components” is Green (i.e. selected)
3. **Backup management**
 - 3.1. Save the current memory configuration of the AW WALL DT4O device.
 - 3.2. Reload a previously saved memory configuration of the AW WALL DT4O device.

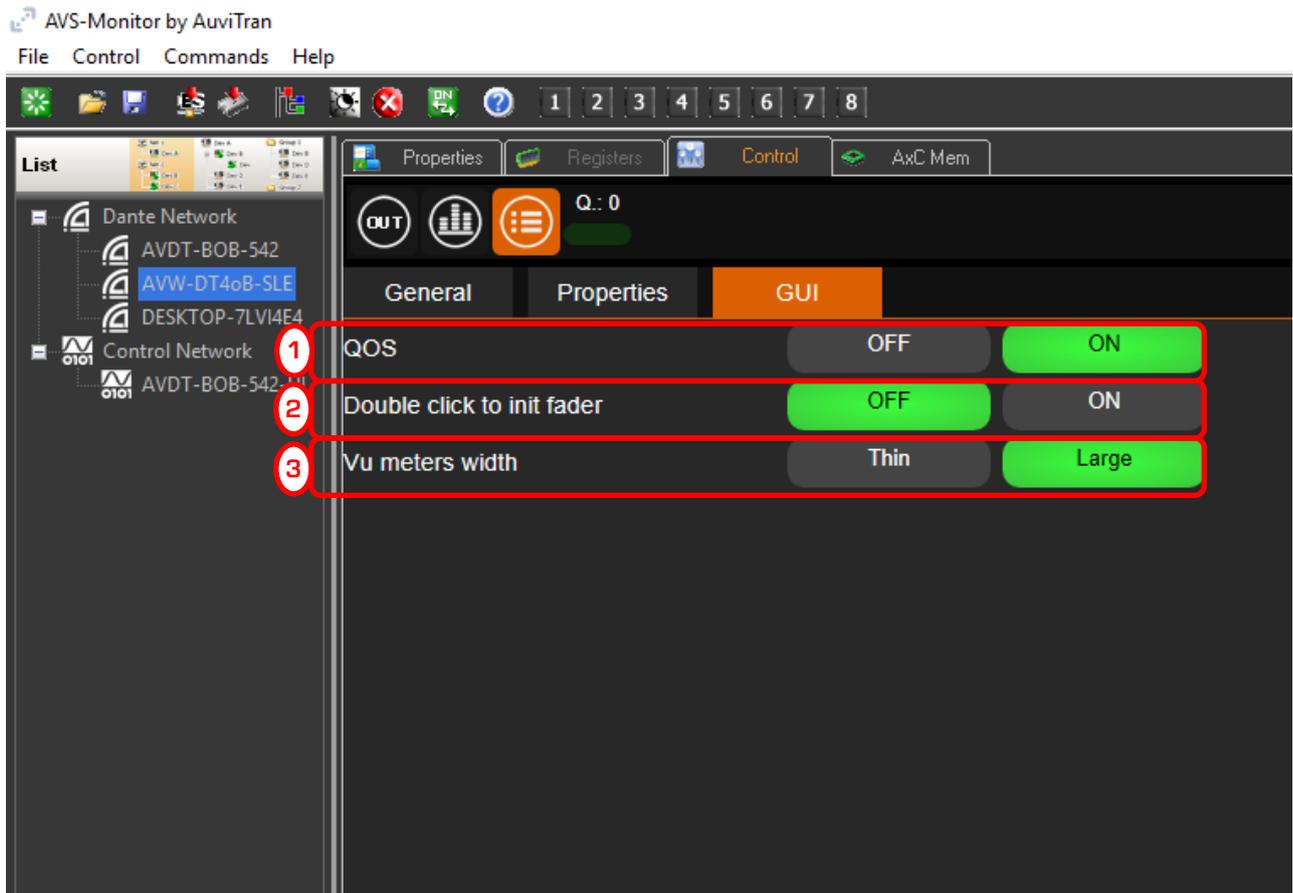
4.2 “Properties” menu

This menu shows information on the selected AV-WALL



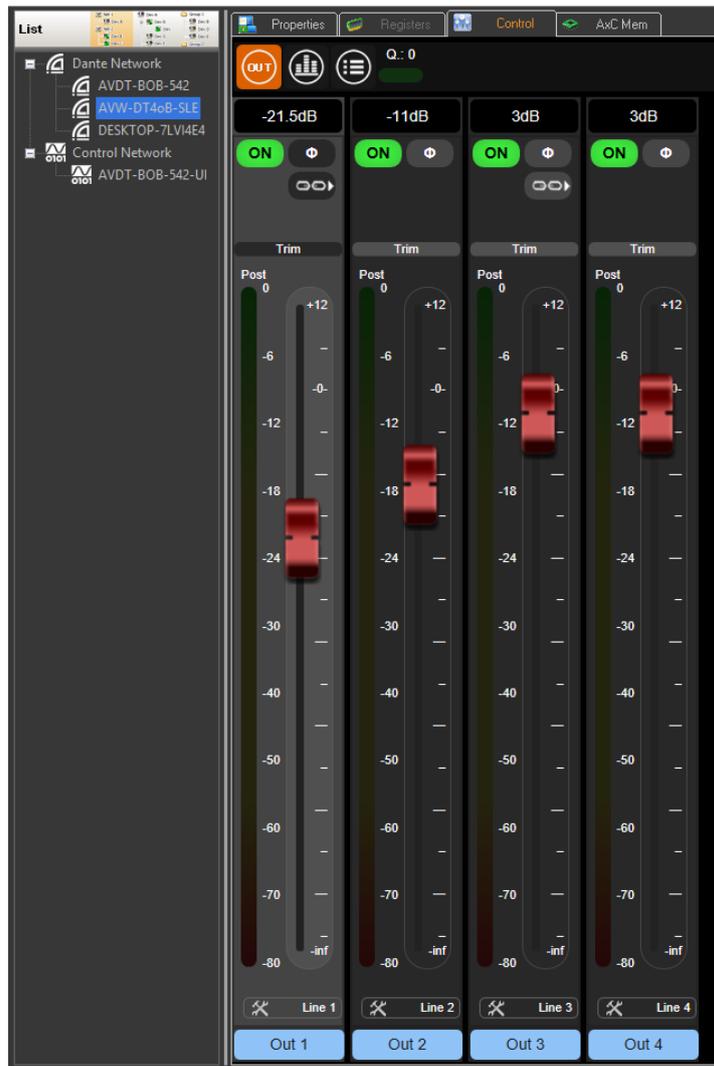
4.3 “GUI” menu

This menu gives access to GUI parameters for the AV-WALL



1. **QOS** when ON (Green) displays information of network and interface speed/interactivity;
2. **Double click to init** fader when ON (Green) enables to set the gain to 0dB when a double click is done the fader
3. **Vu meter width** defines the thin of the vu-meter

4.4 “Out” Interface



- button unmutes when Green or mutes (i.e. when Black) the corresponding input
- button inverts when Blue or not when black the phase of the corresponding input
- button links when blue or not when black the 2 consecutive inputs

The following AVWALL settings can be changed via the AVS interface:

- Operating modes (AVWALL default mode, custom configuration)
An operating modes set automatically a group of parameters and redefine the general behavior of the AVWALL
- AVWALL display modes (Gain and source control on the same screen or not)
- “Rotate” the screens to 180°
- Audio mapping modes (Grouped / Ungrouped, Mono / Stereo)
- Gain control on each channel
- Source presets (labels, Dante channels and device) registration
- Disable/Enable configuration menu
- Disable/Enable Bluetooth control.
- LEDs brightness control
- Screen brightness control
- Disable/Enable Channel source and gain lock.

5 Load labels & Dante patches on AV-WALLs devices

The labels of yours AV-WALLs must be loaded via a command line program: `avwall_label_loader.exe`

5.1 Launch labels transfers & files syntax

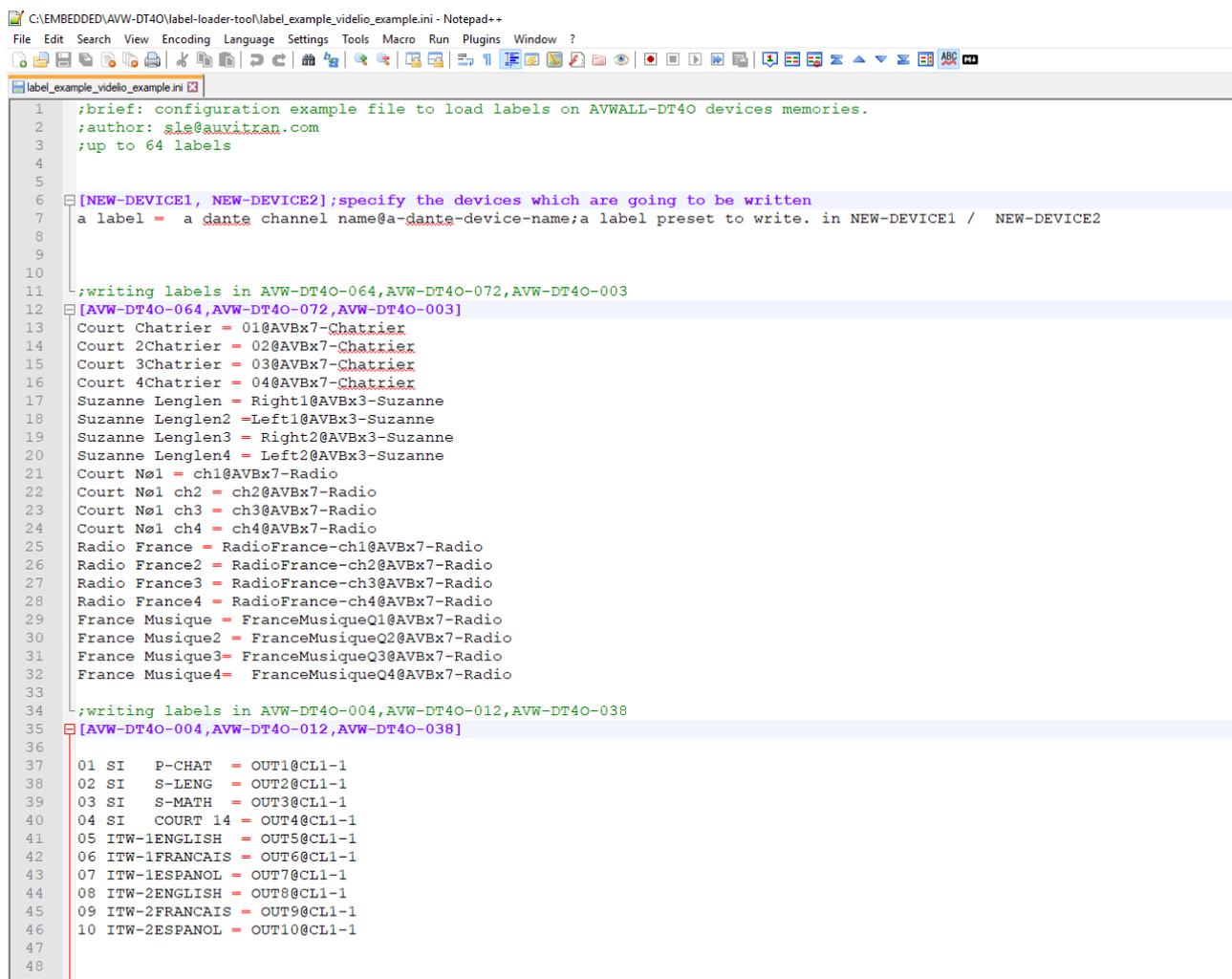
To load labels the user must input as arguments the files which contains the labels:

`avwall_label_loader.exe file_a.ini file_b.ini ...`

To obtain help user can type `-h/h/help` command:

`avwall_label_loader.exe -h`

File syntax example:



```
1 ;brief: configuration example file to load labels on AVWALL-DT40 devices memories.
2 ;author: sle@auvixtran.com
3 ;up to 64 labels
4
5
6 [NEW-DEVICE1, NEW-DEVICE2];specify the devices which are going to be written
7 a label = a dante channel name@a-dante-device-name;a label preset to write. in NEW-DEVICE1 / NEW-DEVICE2
8
9
10
11 ;writing labels in AVW-DT40-064,AVW-DT40-072,AVW-DT40-003
12 [AVW-DT40-064,AVW-DT40-072,AVW-DT40-003]
13 Court Chatrier = 01@AVBx7-Chatrier
14 Court 2Chatrier = 02@AVBx7-Chatrier
15 Court 3Chatrier = 03@AVBx7-Chatrier
16 Court 4Chatrier = 04@AVBx7-Chatrier
17 Suzanne Lenglen = Right1@AVBx3-Suzanne
18 Suzanne Lenglen2 = Left1@AVBx3-Suzanne
19 Suzanne Lenglen3 = Right2@AVBx3-Suzanne
20 Suzanne Lenglen4 = Left2@AVBx3-Suzanne
21 Court Nø1 = ch1@AVBx7-Radio
22 Court Nø1 ch2 = ch2@AVBx7-Radio
23 Court Nø1 ch3 = ch3@AVBx7-Radio
24 Court Nø1 ch4 = ch4@AVBx7-Radio
25 Radio France = RadioFrance-ch1@AVBx7-Radio
26 Radio France2 = RadioFrance-ch2@AVBx7-Radio
27 Radio France3 = RadioFrance-ch3@AVBx7-Radio
28 Radio France4 = RadioFrance-ch4@AVBx7-Radio
29 France Musique = FranceMusiqueQ1@AVBx7-Radio
30 France Musique2 = FranceMusiqueQ2@AVBx7-Radio
31 France Musique3 = FranceMusiqueQ3@AVBx7-Radio
32 France Musique4 = FranceMusiqueQ4@AVBx7-Radio
33
34 ;writing labels in AVW-DT40-004,AVW-DT40-012,AVW-DT40-038
35 [AVW-DT40-004,AVW-DT40-012,AVW-DT40-038]
36
37 01 SI P-CHAT = OUT1@CL1-1
38 02 SI S-LENG = OUT2@CL1-1
39 03 SI S-MATH = OUT3@CL1-1
40 04 SI COURT 14 = OUT4@CL1-1
41 05 ITW-1ENGLISH = OUT5@CL1-1
42 06 ITW-1FRANCAIS = OUT6@CL1-1
43 07 ITW-1ESPANOL = OUT7@CL1-1
44 08 ITW-2ENGLISH = OUT8@CL1-1
45 09 ITW-2FRANCAIS = OUT9@CL1-1
46 10 ITW-2ESPANOL = OUT10@CL1-1
47
48
49
```

ASCII characters are accepted for labels and channels, excepted '=' characters and '@' and escapes characters sequence. Accentuation and other diacritic signs are accepted in labels and channels name but aren't in device name.

Only letters, numbers and dash/minus sign are valid char for a Dante device name, space is not a valid character.

For instance:

- This label can be written:
%0à°\$ôèèèöôâçVα 1=RadioFrance-ch1@AVBx7-Radio
- For instance this label can't be written:
%0à°\$ôèèèöôâçVα 1=RadioFrance-ch1@AVBx7 Radio
because it contains a space character in the device name

Writing labels example:

```
CS Invite de commandes
C:\EMBEDDED\AVW-DT40\label-loader-tool>avwall_label_loader.exe label_example_big.ini
Launch avwall_label_loader.exe
Opening file: label_example_big.ini
Welcome to AuviTran AVS-Service v6.03.00.6465 API:v6.01.00.6443 (2/16) EtherSound / Dante / Upi Version

AVS-Service Connected.
Ready to update label in those devices:
    device 1: AVW-DT40-054 (00.1D.C1.91.3D.DA)
    device 2: AVW-DT40-SLE-02 (00.1D.C1.91.3D.D3)
Please confirm you want to update the labels: yes(y), no(n): y

Write labels:
Erase AVW-DT40-054's old labels... OK
Running transfer of AVW-DT40-054's new labels... OK
AVW-DT40-054's labels written successfully
Erase AVW-DT40-SLE-02's old labels... OK
Running transfer of AVW-DT40-SLE-02's new labels... OK
AVW-DT40-SLE-02's labels written successfully
Done
```

5.2 Typical Troubleshooting

Typical troubleshooting includes:

- Incorrect file syntax & excess of characters in labels, channels name, device names (32 for each of them)
- Unfound devices
- Unauthorized devices
- Excess of authorized labels (64 for each devices)

If you experience other issues with this software, please report this at:

support@auvitran.com

5.2.1 Incorrect syntax

```
Launch avwall_label_loader.exe
Opening file: long_label.ini
Warning In: long_label.ini at line 2
this is a very long label, one should avoid long labels..... is larger than 32 characters, the excess will be ignored
Welcome to AuviTran AVS-Service v6.03.00.6465 API:v6.01.00.6443 (2/16) EtherSound / Dante / Upi Version

AVS-Service Connected.
Ready to update label in those devices:
    device 1: AVW-DT40-054 (00.1D.C1.91.3D.DA)
Please confirm you want to update the labels: yes(y), no(n): y

Write labels:

Erase AVW-DT40-054's old labels... OK
Running transfer of AVW-DT40-054's new labels... OK
AVW-DT40-054's labels written successfully
Done
```

Labels, channels and Dante devices names can't be longer than 32 characters, the excess of characters are ignored.

```
C:\EMBEDDED\AVW-DT40\label-loader-tool>avwall_label_loader.exe label_example_videlio_example.ini
Launch avwall_label_loader.exe
Opening file: label_example_videlio_example.ini
Welcome to AuviTran AVS-Service v6.03.00.6465 API:v6.01.00.6443 (2/16) EtherSound / Dante / Upi Version

AVS-Service Connected.
Warning: those devices were not found on the network:
    device 1: NEW-DEVICE2
    device 2: NEW-DEVICE1
    device 3: AVW-DT40-003
    device 4: AVW-DT40-064
    device 5: AVW-DT40-072
    device 6: AVW-DT40-038
    device 7: AVW-DT40-004
    device 8: AVW-DT40-012

No matching AVWALL-DT40 devices.
Done

C:\EMBEDDED\AVW-DT40\label-loader-tool>
```

5.2.2 Unfound devices

This might happen if your PC is not on the same local network as your equipment, names does not match any connected devices.

```
AVS-Service Connected.
Warning: those devices were not found on the network:
    device 1: AVW-DT4oB-SLE

Ready to update label in those devices:
    device 1: AVW-DT40-054 (00.1D.C1.91.3D.DA)
Please confirm you want to update the labels: yes(y), no(n): y

Write labels:

Erase AVW-DT40-054's old labels...Cmd failed (No respons)!
    FAILED
AVW-DT40-054's labels writting process failed, check device connection.
Done

C:\EMBEDDED\AVW-DT40\label-loader-tool>
```

This might happen if your equipment during labels update process.

5.2.3 Unauthorized devices

```
Invite de commandes
C:\EMBEDED\AVW-DT40\label-loader-tool>avwall_label_loader.exe example_forbide_device.ini
Launch avwall_label_loader.exe
Opening file: example_forbide_device.ini
Welcome to AuviTran AVS-Service v6.03.00.6465 API:v6.01.00.6443 (2/16) EtherSound / Dante / Upi Version

AVS-Service Connected.
Warning: those devices were found but are not AWWALL-DT40 compatible devices:
        device 1: AVDT-BOB-542 (00.1D.C1.90.05.DA)
No matching AWWALL-DT40 devices.
Done
C:\EMBEDED\AVW-DT40\label-loader-tool>
```

This case happens when user attempting to write on a device which is not recognized as a AWWALL-DT40 device.

5.2.4 Excess of authorized labels

```
AVS-Service Connected.
Ready to update label in those devices:
        device 1: AVW-DT40-054 (00.1D.C1.91.3D.DA)
Please confirm you want to update the labels: yes(y), no(n): y

Write labels:
Erase AVW-DT40-054's old labels... OK
Running transfer of AVW-DT40-054's new labels...AVW-DT40-054's labels number is greater than 64 Labels 1 to 64 will be written, further labels will be ignored
OK
AVW-DT40-054's labels written successfully
Done
```

This case happens when labels numbers is greater than 64. Further labels are ignored.