

NWP300

Network input panel - BT + 3.5 mm jack (4 CH)

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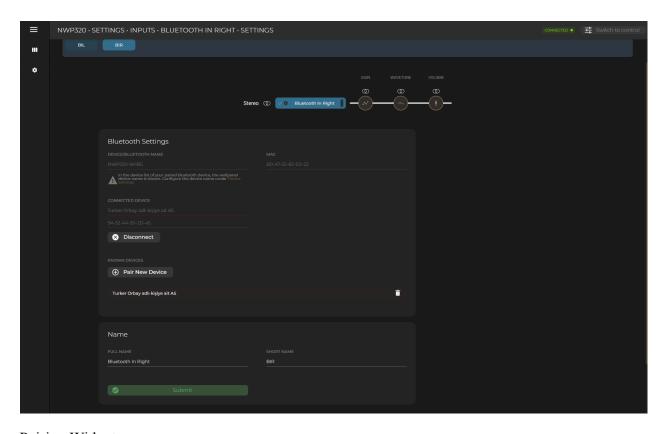
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Bluetooth Settings

All NWP series have Bluetooth functionality which can be activated in various ways: by holding the button on the front panel, pressing the "Pair New Device" button in Bluetooth settings, by programming NCP105 and with a widget in a custom dashboard.

The following screenshot shows the Bluetooth settings menu which can be reached by clicking on the gear icon next to the channel label. Bluetooth In Left (BIL) and Bluetooth In Right (BIR) channels are in stereo mode by default and share the same DSP aspects.

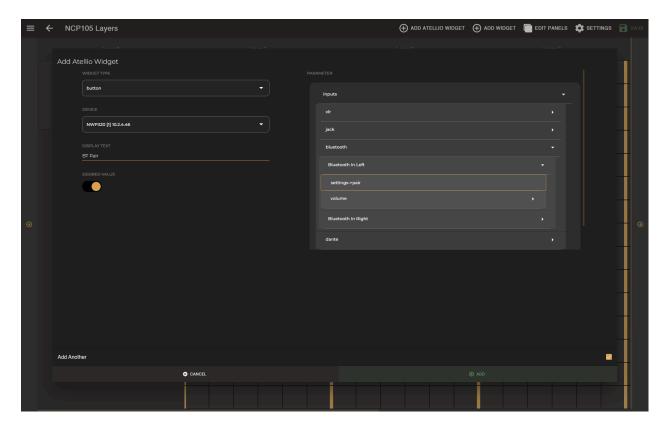
Parameter Name	Parameter Range	Parameter Definition	
Device/Bluetooth Name	Not Available	This is the name visible for the client devices that want to connect via Bluetooth. The device name is also the device's full name, which can be also changed in the device settings.	
MAC	Not Available	MAC address of the device	
Connected Device	Not Available	Name and MAC address of the connected device A "Disconnect" button is available to terminate the connection	
Pair New Device	Not Available	vailable Enables pairing for the client devices	
Known Devices	Not Available	A list of client devices previously connected to the wall panel Client devices can be removed from the list by clicking the bin icon	



Pairing Widget

The pairing function is available as a button and can be found under inputs > Bluetooth for the widget. You can select left or right pairing as the widget function because left and right Bluetooth channels are in stereo mode by default.

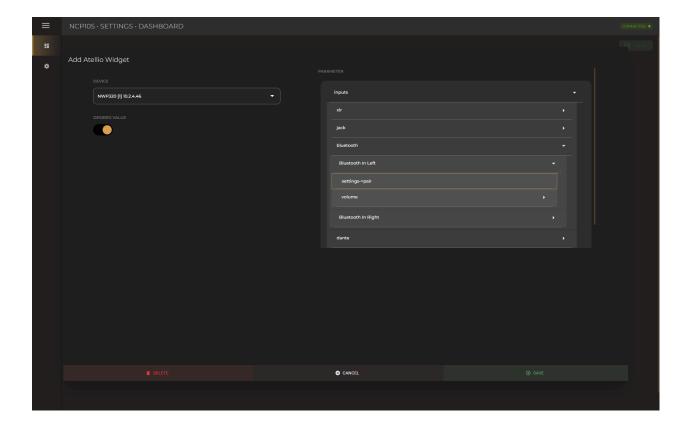
Parameter Name	Parameter Range	Parameter Definition
Display Text	Not Available	Display text visible on the widget
Desired Value	Not Available	The widget can be set to enable or disable the pairing



Programming NCP105

NCP105 buttons can be programmed to enable or disable the pairing function of the wall panel. The pairing function is available as a button and can be found under inputs > Bluetooth for the buttons.

Parameter Name	Parameter Range	Parameter Definition
Desired Value	Not Available	The widget can be set to enable or disable the pairing



Pre-Gain, Gain & Automatic Gain Control (AGC)

Pre-Gain

Manually adjustable pre-gain for microphone/line level adjustment is available for input signals up to 22dBV/24dBu. It is a digitally controlled analogue gain stage. Pre-Gain can be used with both Gain and AGC.

Parameter Name	Parameter Range	Parameter Definition
		The Pre-Gain parameter offers a selection of four gain levels
Pre-Gain	-6/0/34/40 dB	for the microphone level, line level, and hot signal source (e.g.,
		DJ setup).

Gain

Gain is available for all input channels with a range of -35 and 35 dB for the LUNA series. It is also possible to adjust the input gain automatically.

Note: NWP series have -15 and 15dB of gain range.

Parameter Name	Parameter Range	Parameter Definition
Gain	+/-35 dB	L., 4. ' 1 4. 22 IDW/24 ID
	+/-15 dB	Input signal up to 22dBV/24dBu

Automatic Gain Control (AGC)

All inputs contain the possibility to enable Automatic Gain Control (AGC). This continuously adjusts the input gain, ensuring a constant output level while the input level varies. The gain adjustments are made in extremely small step adjustable sizes ensuring high-quality audio, even during gain changes.

Parameter Name	Parameter Range	Parameter Definition
Target (A)	-20 - 6 dB	The Target parameter specifies a signal's target level before entering the Matrix. Continuously, the signal matching the level specified by the target parameter will be attempted to adjust.
Max Gain (B)	0 - 30 dB	The Max Gain parameter specifies the maximum gain adjustment which can be achieved between the input level and the target level. This can be used to prevent excessive noise or microphone feedback when, for example, a microphone is not being used. Note that this setting may prevent the AGC from reaching the target level, but this behavior is desirable to achieve the best overall sound.
Hold (C)	0.1 - 60 second	The Hold parameter specifies the AGC hold time during which no action will be taken when the output level falls below the target output level. This is used to prevent the gain from modulating on low frequencies which may cause distortion. For line signals, it is recommended to specify a long hold time to prevent the AGC from adjusting the volume during quiet music passages.
Decay (D)	5 - 200 dB/sec	The Decay parameter specifies the time the AGC will take to increase the gain, raising the signal from the current level (below the target level) to the target level. A slow Decay setting can be used if a fixed output level should be maintained, while a fast Decay setting can be used to compress the dynamic range of speech.
Attack (E)	5 - 200 dB/sec	The Attack parameter specifies the reaction time in which the AGC starts attenuating after a sudden increase in input level above the target level. The attack time should be fast to avoid any distortion caused by clipping, but when the attack time is too fast, the AGC will overreact to short peaks, causing audible distortion.
Threshold (B)	-90 - 30 dB	The Threshold parameter specifies the level at which the noise gate will be enabled. When the level of the applied input signal is below the set threshold level, the noise gate will be enabled. This will cut off the signal, resulting in no noise on the outputs. To avoid unwanted noises (noise gate opening and closing rapidly) when the signal level is close to the threshold level, the noise gate function uses a time-out period in combination with hysteresis.
Gain Freeze	Selection	The Gain Freeze will freeze the reached gain level and keeps it fixed.
Gain Recovery	Selection	The Gain Recovery will recover the reached gain level back to

VUD.

Training Video

You can click on the video or scan the code to watch the training video of this DSP feature.



Note: The video content may be changed or updated in time.

WaveDynamicsTM

WaveDynamicsTM is an audio control and processing technology implemented in AUDAC products. Thanks to the powerful DSP processors built into our products it can deliver effortless control over the most advanced acoustic configurations.

Training Video

You can click on the video or scan the code to watch the training video of this DSP feature.



Note: The video content may be changed or updated in time.

WaveTuneTM is a seven-band full parametric equalizer with dedicated EQ gain that each band can enable individually. This unique function allows fine-tuning of the source signal with different diverse types of filtering. This gives the possibility of tailoring the source for optimal performance.

Parameter Name	Parameter Range	Parameter Definition	
Preset List	Selection	Opens a list of factory and custom presets which can be	
_		imported, exported or edited in WaveDynamics TM.	
Apply Preset	Not Available	Recalls the selected preset to the output channel.	
Show Table	Enable/Disable	Opens a table showing the filters that can be applied	
Type	Selection	Opens a list of filters that can be selected	
Peaking	Selection	Peaking Filter provides a boost or a cut to a band of	
Teaking	Selection	frequencies around a center frequency.	
		Applies Second Order Low Pass filter. With a Low-Pass filt	
Low Pass	Selection	the frequencies above the crossover frequency will be	
		suppressed.	
		Applies Second Order High Pass filter. With a High-Pass fil	
High Pass	Selection	the frequencies below the crossover frequency will be	
		suppressed.	
		Linkwitz Transform changes effective frequency and Q-fact	
Linkwitz	Selection	to desired values. Typically, this is used to lower F to get m	
LIIIKWILZ	Selection	low bass output or to lower the Q to make the box behave l	
		a larger box.	
A II Dogg	Calastian	All-pass filter passes all frequencies equally in gain but	
All Pass	Selection	changes the phase relationship among various frequencies.	
I	G.L. dien	Low Shelf filter boosts or reduces the audio level below the	
Low Shelf	Selection	desired frequency rather than removing them.	
11, 1 01 16	Selection	High Shelf filter boosts or reduces the audio level above the	
High Shelf		desired frequency rather than removing them.	
First Order Low		Applies First Order Low Pass filter. With a Low-Pass filter,	
Pass	Selection	frequencies above the crossover frequency will be suppress	
E. (O.1 H. 1	Selection	Applies First Order High Pass filter. With a High-Pass filter	
First Order High		the frequencies below the crossover frequency will be	
Pass		suppressed.	
		The Frequency parameter indicates the center frequency of	
F	20Hz -20kHz	filter. This is the central frequency between the upper and	
Frequency		lower cutoff frequencies of the filter. The frequency can be	
		between 20Hz and 20kHz.	
		The Q-factor parameter is the quality factor related to the	
		bandwidth of the filter. A higher Q-factor indicates a more	
		selective filter with a smaller bandwidth. The standard Q-fa	
Q-factor	0.01 - 15	value for the 7-band EQ is set to 0.9, whereby the 7 bands h	
		good coverage over the entire audio spectrum. A higher Q-	
		factor makes it possible to influence specific frequency rang	
		of the audio spectrum.	
Boost	-15 – 15 dB	The Boost boosts or cuts the desired filter by 15 dB.	
Enabled	Enable/Disable	Enables or disables the desired filter.	

Volume

Sets the attenuation of the input source in the Input Block and the mixer output in the Zone Block.

Note: Volume in Zone Block has the identical functionality as the master volume of the mixer.

Parameter Name	Parameter Range	Parameter Definition
Volume	-90 – 0 dB	Sets the attenuation level of the audio block.

Training Video

You can click on the video or scan the code to watch the training video of this DSP feature.



Note: The video content may be changed or updated in time.

Mixer

The mixer function makes it possible to create a mix of all mapped audio inputs in a zone.

Using the universal network/PoE wall panel controller NCP105, 16 mapped sources, 8 mixed scenes and an off state can be selected easily in a zone.

Note: Volume in Zone Block has the identical functionality as the master volume of the mixer.

Note: In the network input and output wall panel NWP series, the mixer function is available in the Output Block, yet has no Scene feature.

Parameter Name	Parameter Range	Parameter Definition
Channel Volume	-90 – 0 dB	The channel volume slider sets the mix level of the mapped
Slider	-90 – 0 dB	source.
		The attenuation value of the source selected with the route
Route	Enable/Disable	becomes 0dB, and the attenuation value of the other mapped
		sources decreases to -90dB or in other words muted.
Scene	Apply/Save	Up to 8 mixing scenes can be saved and recalled.
Master Volume		The master volume slider sets the mixer or zone output level.
Slider	-90 - 0 dB	In the zone block, the master volume slider and volume
Sildel		settings are identical.
Master Mute	Enable/Disable	The master mute mutes the mixer or the zone output.

Training Video

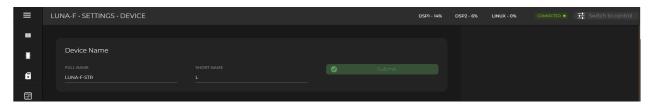
You can click on the video or scan the code to watch the training video of this DSP feature.



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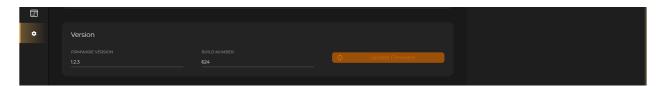
Device Settings

Device Name



Parameter Name	Parameter Range	Parameter Definition
Full Name	Not Available	Full name is used on the drop-down selection lists and in the Dante Controller for Dante channels. Full name is also used as device/Bluetooth name on the NWP series.
Short Name	Not Available	Short is used on the overview screen channel labels

Version



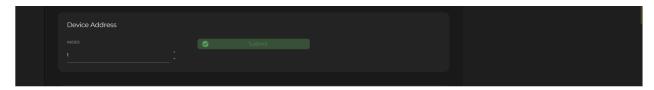
Parameter Name	Parameter Range	Parameter Definition
Firmware Version	Not Available	Indicates the installed firmware version.
Build Number	Not Available	Indicates the build number of the installed firmware version.
Update Firmware	Not Available	The available firmware version can be installed here. The latest and previous versions are both available. Using the latest AUDAC Touch version and firmware is highly recommended to get the most out of your Atellio family devices. When a new firmware version is available, the button will be highlighted in orange.

Network Settings



Parameter Name	Parameter Range	Parameter Definition
DHCP	Enable/Disable	Switch between dynamic or static IP
MAC	Not Available	MAC address of the device
IP	Not Available	The IP address of the device can be set here when DHCP is disabled (e.g. 192.168.20.170)
Mask	Not Available	The subnet mask can be set here (e.g. 255.255.255.0)
Gateway	Not Available	The gateway IP address can be set here for the devices that act as the bridge for the network traffic like the network switch (e.g. 192.168.20.1)
DNS1/DNS2	Not Available	The primary and secondary/alternative DNS addresses can be set here (e.g. 1.1.1.1)

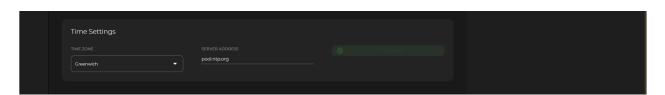
Device Address



Parameter Name	Parameter Range	Parameter Definition
Index	Enable/Disable	You can set a unique number to the device in a scenario where
	Eliable/Disable	you have more than one of the same device.

Time Settings (Only for the LUNA series)

It is important to configure the time settings correctly. This is needed for the event handler time trigger to work correctly.



Parameter Name	Parameter Range	Parameter Definition
Time Zone	Not Available	GMT zone can be selected based on country names
Server Address	Not Available	The NTP server IP address can be set in this line

Finding an NTP Server

If your network has any restrictions, it is recommended to contact your network management to obtain the NTP address for the network you are connecting to, if the network is unmanaged or has no port restrictions then to find the IP address relative to you simply ping the address as shown below.

[&]quot;europe.pool.ntp.org"

[&]quot;asia.pool.ntp.org"

"oceania.pool.ntp.org"

"north-america.pool.ntp.org"

"south-america.pool.ntp.org"

"africa.pool.ntp.org"

```
Microsoft Windows [Version 10.0.22631.3593]
(c) Microsoft Corporation. All rights reserved.

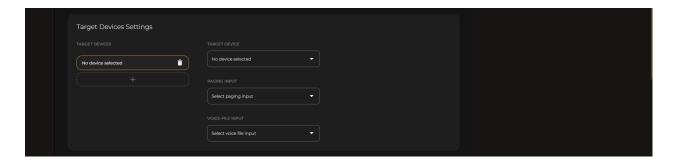
U:\>ping europe.pool.ntp.org

Pinging europe.pool.ntp.org [5.39.184.5] with 32 bytes of data:
Reply from 5.39.184.5: bytes=32 time=10ms TTL=55
Ping statistics for 5.39.184.5:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 9ms, Maximum = 11ms, Average = 10ms

U:\>
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Target Device Settings (Only for NPM200)

Up to 20 devices can be set as target devices for paging and voice file announcements for a single NPM200. Please refer to "Target Devices Settings" for a detailed explanation.



Parameter Name	Parameter Range	Parameter Definition
Target Devices	Not Available	Up to 20 devices can be set as target devices for paging and
		voice file announcements.
Target Device	Selection	Selecting any LUNA series in the device inventory from the
		drop-down list is possible.
Paging Input	Selection	Selected device channels should be subscribed to the dedicated
		NPM200 Dante channels, Dante Paging Out for paging and
		Dante Voice File Out for voice files.
Voice File Input	Selection	Selected device channels should be subscribed to the dedicated
		NPM200 Dante channels, Dante Paging Out for paging and
		Dante Voice File Out for voice files.

Physical Button Settings



Parameter Name	Parameter Range	Parameter Definition
Physical Button	Selection	Provides two function options for the physical button of
Function		NPM200.
Push to start, release to stop	Not Available	Push the physical button to start the announcement and the microphone will unmute, you can release the physical button once the announcement is done and the microphone will mute.
Push once to start, again to stop	Not Available	Push the physical button to start the announcement and the microphone will unmute, you can push again to the physical button once the announcement is done and the microphone will mute.

Button Sensitivity (Only for NCP105)



Parameter Name	Parameter Range	Parameter Definition
Button Sensitivity	0-100	The sensitivity of programmable buttons can be set individually.

Physical Button Functions (Only for the NWP series)



Parameter Name	Parameter Range	Parameter Definition
Bluetooth Pairing	Enable/Disable	Enable or disable the Bluetooth pairing function using the button on the NWP series devices.
Mic/Line Mode	Enable/Disable	Enable or disable the mic/line level switch function using the button on the NWP series devices.
Factory Reset	Enable/Disable	Enable or disable the factory reset function using the push rotary button on the NWP series devices.

Pin Code Setting (LUNA series and NPM200)



Pin code protection is available for the LUNA series with version 1.4.0 for configuration display. The pin code is 0000 by default.

Pin code protection is available for NPM200 with version 1.2.0 for configuration display. The pin code is 0000 by default.