HARDWARE FEATURE MANUAL



NPM200

DanteTM/AES67 paging console

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Dashboard

The following table shows the main dashboard creation parameters. Widgets can be added, resized and placed custom like in AUDAC Touch dashboards.

Parameter Name	Parameter Range	Parameter Definition
Add Widget	Not Available	The NPM200 has a custom configurable dashboard. You can add widgets by clicking on the dashboard to add a mic or voice file announcement functionality for one or more zones. The configuration is no different than AUDAC Touch dashboards.
Edit Panels	Not Available	The order of the layers can be changed The extra layers can be deleted or a new layer can be added to the left or right of that layer. All widgets on a layer can be removed with a single button.
Plus Icon	Not Available	Up to 10 layers can be created and programmed in the NPM200 by clicking the plus icon.
Save Button	Not Available	The save button will be highlighted in green after every change in the configuration of the NPM200. The dashboard on the NPM200 will be updated automatically when the configuration is saved.

The following table shows the actions available for the zone select widget.

Parameter Name	Parameter Range	Parameter Definition
Toggle	Not Available	Toggles between select and unselect.
Fixed	Not Available	Sets the select function to select or unselect.

The following table shows the parameters available for the zone select widget.

Parameter Name	Parameter Range	Parameter Definition
Display Text	Not Available	You can give a custom name for the widget. For example, the zone select button for Zone 1, 2 and 3 may have the Offices display name.
Targets	Not Available	All available zones are listed here. If you have a custom name for the zone in that LUNA device, the custom name will be available on the list. For example, Zone 1 is Marketing, Zone 2 is Product and Zone 3 is sales.

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ß		button	zone select			
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		toggle 🗸	Voice File Paging			
		Office				
		Marketing				
		Product				
		Sales				÷
		Zone 4				
		Zone 5				
		Zone 6				
		Zone 7				
		Zone 8				
		Zone 9				
		Zone 10				
	Add Anothe	er				
		S CANCEL				

The following table shows the actions available for the voice file paging widgets.

Parameter Name	Parameter Range	Parameter Definition
Toggle	Not Available	Toggles between select and unselect.
Fixed	Not Available	Sets the select function to select or unselect.

The following table shows the parameters available for the zone select widget.

Parameter Name	Parameter Range	Parameter Definition
		You can give a custom name for the widget.
Display Text	Not Available	For example, the voice file button may have the Party
		Announcement display name.
Targets	Not Available	All available voice file events are listed here. For example, #0
Targets	Not Available	party1.

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::	Add At	ellio Widget				
ß		button	zone select			
٠			Voice File Paging			
		toggie	voice file event on VoiceFile Player	[1] 10.2.4.35		
			Push To Play			
		Party Announcement				
		#0 party 1				
		#1 party 2				
	Add Anoti	ner				
		S CANCEL				

The next widget is Push to Play, after selecting the zones that you want to make the voice file announcement and the voice file event, you can press this button to trigger the event.

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Gain

Gain is available for all input channels with a range of -15 and 15 dB. In addition, it is also possible to enable phantom power from the settings menu. You can access settings by clicking the gear icon next to the channel name.

Parameter Na	me	Parameter Range	Parameter Definition
Gain		+/-15 dB	Input signal up to 22dBV/24dBu

LP/HP filter (Input Filter & Output Filter)

2 bands of semi-parametric 2nd order high pass and low pass filters are available on each input channel and can be individually enabled and disabled. Frequency and Q-factor can be adjusted, and channels can be enabled individually. With cascading or combining the available filters, bandpass or 4th order high pass or low pass filters can be created.

Parameter Name	Parameter Range	Parameter Definition
Show Table	Enable/Disable	Opens a table showing the filters that can be applied.
Туре	High Pass/Low pass	Opens a list of filters that can be selected.
High Pass	Selection	With a High-Pass filter, the frequencies below the crossover frequency will be suppressed.
Low Pass	Selection	With a Low-Pass filter, the frequencies above the crossover frequency will be suppressed.
Frequency	20Hz -20kHz	The Frequency parameter indicates the centre frequency of the filter. This is the central frequency between the upper and lower cutoff frequencies of the filter. The frequency can be set between 20Hz and 20kHz.
Q-factor	0.01 - 15	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- factor value for the 7-band EQ is set to 0.9, whereby the 7 bands have good coverage over the entire audio spectrum. A higher Q-factor makes it possible to influence specific frequency ranges of the audio spectrum.
Boost	Not Available	Boost is not available on the input filter.
Enabled	Enable/Disable	Enables or disables the desired filter.

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.

WaveDynamics[™]

WaveDynamics[™] 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.

WaveTune[™] 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
T Teset List	Selection	imported, exported or edited in WaveDynamics $^{\rm TM}$.
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
Туре	Selection	Opens a list of filters that can be selected
Dooking	Selection	Peaking Filter provides a boost or a cut to a band of
Peaking	Selection	frequencies around a center frequency.
		Applies Second Order Low Pass filter. With a Low-Pass filter,
Low Pass	Selection	the frequencies above the crossover frequency will be
		suppressed.
		Applies Second Order High Pass filter. With a High-Pass filter,
High Pass	Selection	the frequencies below the crossover frequency will be
		suppressed.
		Linkwitz Transform changes effective frequency and Q-factor
Linkwitz	Salastian	to desired values. Typically, this is used to lower F to get more
LIIIKWIUZ	Selection	low bass output or to lower the Q to make the box behave like
		a larger box.
	Cala dia a	All-pass filter passes all frequencies equally in gain but
All Pass	Selection	changes the phase relationship among various frequencies.
Low Shelf	Selection	Low Shelf filter boosts or reduces the audio level below the
		desired frequency rather than removing them.
II:-h Ch-lf	Calastian	High Shelf filter boosts or reduces the audio level above the
High Shelf	Selection	desired frequency rather than removing them.
First Order Low	Selection	Applies First Order Low Pass filter. With a Low-Pass filter, the
Pass	Selection	frequencies above the crossover frequency will be suppressed.
First Order Wish		Applies First Order High Pass filter. With a High-Pass filter,
First Order High	Selection	the frequencies below the crossover frequency will be
Pass		suppressed.
		The Frequency parameter indicates the center frequency of the
Fragueney	20Hz -20kHz	filter. This is the central frequency between the upper and
Frequency	20HZ -20KHZ	lower cutoff frequencies of the filter. The frequency can be set
		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-
Q-factor	0.01 - 15	factor value for the 7-band EQ is set to 0.9, whereby the 7
		bands have good coverage over the entire audio spectrum. A
		higher Q-factor makes it possible to influence specific
		frequency ranges 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

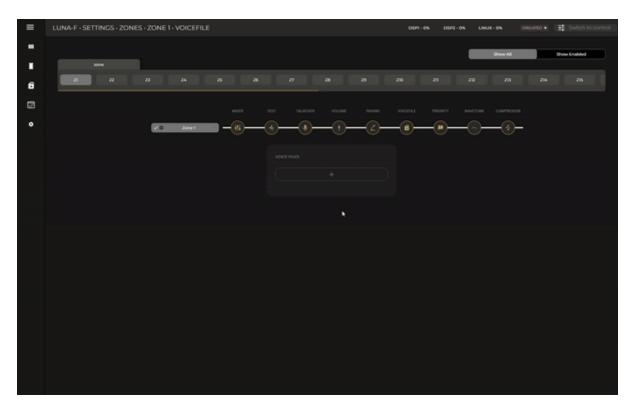
You can click on the video or scan the code to watch the training video of this DSP feature.



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

Voice File Player

Voice File Player supports MP3 and WAV formats. The storage location can be an external USB drive or an internal SD card. Both FAT32 and exFAT USB drive formats are supported. Voice file events can be recalled in the zone block Voice File when they are assigned.



Voice File Overview

Available events with assigned voice files can be previewed on this list with additional information such as importance level or priority and number of repeats.

Events are queueable when another event with a higher/same priority is playing.

Parameter Name	Parameter Range	Parameter Definition
Play and Stop	Not Available	Created voice file events can be tested using play and stop
Buttons	Not Available	buttons.

Edit Voice File

Parameter Name	Parameter Range	Parameter Definition
Edit Voice File	Submit/Reset	
Event Name	Not Available	Name of the event (e.g. Evacuation)
		Make sure to add the usb/ or mediafiles/ folder in the path
		field in Audac Touch (e.g.mediafiles/audio1.mp3)
Voice File Path	Not Available	Please note that the file path is case sensitive.
		The importance of the event ranges from 0 to 100. The lower
Priority	0-100	the number the higher the priority. For example, priority 1 is
		more important than priority 6.
		Repeat the event a specific amount of times, up to 255. When
Play # of Times	Not Available	the file is played this amount of times it is removed from the
1 lay # 01 Times	INOL AVAIIAUIC	queue. When this variable is set to 0 the file will be played
		infinitely.
Play Completely	Enable/Disable	Name of the event (e.g. Evacuation)

Upload voice files

You can check File Browser topic regarding MP3 or WAV file uploading to internal storage.

Selecting voice file event in the Event Handler

It is possible to trigger a voice file event with a GPI trigger or timed event trigger in the Event Handler. You can find the Voice File Player as a device with the same IP as the LUNA in the drop-down menu.

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	Event settings			Time triggers preview			
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Mic Paging Settings

You can set the channel name, pre and post-chime, priority and volume offset for the NPM200.

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	Page	File		
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٠		Name	Chimes	
		FULL NAME Mic Paging	PRECHIME SOUND PRECHIME FILE PATH O mediafiles/DingDong.wav	
		SHORT NAME Page	POSTCHIME SOUND POSTCHIME FILE PATH O mediafiles/DingDong.wav	
			meaning on ground and a second s	
			Priority and Volume offset	
			VOLUME OFFSET	

Chimes

Parameter Name	Parameter Range	Parameter Definition
Prechime Sound	Enable/Disable	Enable/disable pre-announcement chime
Prechime File Path	Not Available	Make sure to add the usb/ or mediafiles/ folder in the path field in Audac Touch (e.g.mediafiles/audio1.mp3) Please note that the file path is case sensitive.
Postchime Sound	Enable/Disable	Enable/disable post-announcement chime
Prechime File Path	Not Available	Make sure to add the usb/ or mediafiles/ folder in the path field in Audac Touch (e.g.mediafiles/audio1.mp3) Please note that the file path is case sensitive.

Priority and Volume offset

Parameter Name	Parameter Range	Parameter Definition
		The importance of the event ranges from 1 to 99. The lower
Priority	Not Available	the number the higher the priority. For example, priority 1 is
		more important than priority 6.
		Volume offset can be set in addition to what is set in the zone
Volume offset	-20 - 20dB	paging volume. For example, you can make an announcement
		louder than what was set in that zone.

Voice File Paging Settings

You can set the channel name, priority and volume offset for the NPM200.

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	Page			
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	Name	Priority and Volume offset		
	Voice File Paging			
	File	0dB		
		-		

Priority and Volume offset

Parameter Name	Parameter Range	Parameter Definition
		The importance of the event ranges from 1 to 99. The lower
Priority	Not Available	the number the higher the priority. For example, priority 1 is
		more important than priority 6.
		Volume offset can be set in addition to what is set in the zone
Volume offset	-20 - 20dB	paging volume. For example, you can make an announcement
		louder than what was set in that zone.

Target Devices Settings

Up to 20 devices can be set as target devices for paging and voice file announcements. Selecting any LUNA series flexible network audio matrix in the device inventory from the drop-down list is possible. 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.

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		Version			
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		Target Devices Settings			
			*		
		Network Settings			
				0	
		Device Address			

Note: Using the star Dante routing allows you to use up to 32 paging consoles with a single LUNA-F. The advantages are minimum latency and simultaneous paging.

Note: Using the daisy chain Dante routing allows you to use more than 32 paging consoles with a single LUNA series flexible network audio matrix. The trade-offs are higher latency, one-by-one priority-based paging and unplugging a single NPM200 breaks the chain.

Note: The NPM200 is limited by 2 transmitting flows because of the Ultimo chipset. If you want to use the NPM200 with more than two LUNA devices, the NPM200 should be set to multicast in the Dante Controller to transmit the signal to multiple devices.

There is no need to map those Dante channels to zones once the Dante channels are subscribed successfully. The announcement will be delivered to the zone when the target zones are selected on the NPM200 dashboard.

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File Devices View Help															
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Device Lock Media Type	Dante Filter Transmitters		AudacANX-0a789b +	LUNA-F +	LUNA-F-STR +	MFAZ08-ANI44X1-51K +	Dante Paging Out	Disabled b	Dante Voice File Out	PMQ600-ANI44XT-STR	SMQ350-ANI44XT-STR +	XMP44-2-5TR			
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For talkover and priority, Dante channels will be picked automatically once the features are activated and the Dante channels are selected as input sources.

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				Show All Show Enabled
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A state	Z1 Z2 Z3 Z4			
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	✓ ♦ ZONE 1		—(f) — (f) —	
		TALK OVER SOURCE		
		Dante In1		
		-90dB 0dB 3sec 4		
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		STEREO MODE WITH ZONE 2 TALKOVER		

Device Settings

Device Name

≡	LUNA-F · SETTINGS · DEVICE		osp1 - 14%	DSP2 - 6%	LINUX - 0%	Switch to control
I	Device Name					
Ē	LUNA-F-STR					

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

Version RIMWARE VERSION BUILD NUMBER		
FIRMWARE VERSION BUILD NUMBER		
123 624 Update Firmware	624 CO Update Firmware	

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

Network Settings			
рнср		DN52 0.0.00	
IP 1021025	GATEWAY 10.2.10.1		
MASK 255.255.255.0	נאס 1011200		

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/Disat	Enable/Disable	You can set a unique number to the device in a scenario where
	Enable, 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.

"asia.pool.ntp.org" "oceania.pool.ntp.org" "north-america.pool.ntp.org" "south-america.pool.ntp.org"

🖾 Command Prompt X + 🗸	_	×
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=9ms TTL=55 Reply from 5.39.184.5: bytes=32 time=10ms TTL=55 Reply from 5.39.184.5: bytes=32 time=11ms TTL=55 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:\>		

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.

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
MIC/Line Wode	Enable/Disable	button on the NWP series devices.
Fastary Dagat	Enable/Disable	Enable or disable the factory reset function using the push
Factory Reset		rotary button on the NWP series devices.