

# ► NPA100DA

## User Manual

## Thank you for purchasing this product.

For optimum performance and safety, please read these instructions carefully before connecting, operating or adjusting this product. Please keep this manual for future reference.



### Surge Protection Device Recommended

This product contains sensitive electrical components that may be damaged by electrical spikes, surges, electric shock, lightning strikes, etc. Use of surge protection systems is highly recommended in order to protect and extend the life of your equipment.

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# Introduction

Our NPA100DA networked audio zone amplifier delivers advanced audio integration within a commercial or residential AV installation.

The NPA100DA features a 2 x 50W digital amplifier (1 x 100W mono) or 70V / 100V hi-level constant voltage output, dedicated LFE subwoofer output, Dante audio integration and 2ch balanced / unbalanced audio outputs.

The NPA100DA supports a variety of inputs including 2ch Dante audio, HDMI ARC, MIC audio with 48V Phantom power support, optical audio and 2ch balanced / unbalanced analogue audio.

The NPA100DA can be powered via PoE++ from a compatible network switch, or locally should the switch not support PoE++. The unit also includes the ability to lower the amplifier power output subject to PoE capabilities, support for combined or independent LAN and Dante connections, DSP with a 10 band EQ, audio delay for lip sync correction, independent gain control for audio inputs and control via front panel, IR, RS-232, TCP/IP, web-GUI or 12V trigger.

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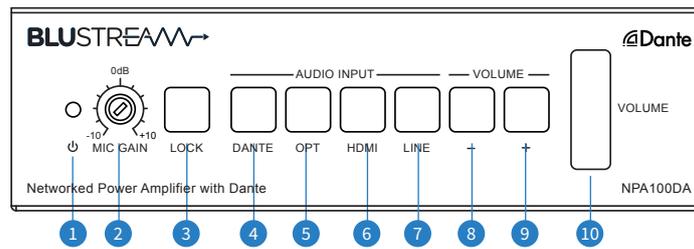
## FEATURES:

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- Advanced network audio amplifier with Dante Integration
- Supports 2 x 50W @ 4 / 8 ohm, 1 x 100W @ 4 / 8 ohm or 70 / 100V constant output for multiple speakers with longer cable runs
- Supports power via PoE++ on Dante LAN connection or Local power supply\*
- Dual network option - independent Dante and LAN control ports, or combined to a single LAN
- Audio inputs include:
  - 2ch Dante / AES67 audio input
  - HDMI ARC, with CEC volume control
  - MIC audio input with phantom power and auto-ducking
  - 2ch analogue audio input – unbalanced & balanced
  - 1 x optical (S/PDIF) audio input
- Audio outputs include:
  - 2ch Dante/AES67 audio output
  - 2ch variable / fixed analogue output, unbalanced & balanced
  - 1 x LFE subwoofer output
- Independent gain control for input channels
- DSP with 31 band EQ with +/-10dB and audio delay
- Local 12V input trigger for automated power control
- Control via front panel, IR, RS-232 and IP
- Auto standby mode with signal sensing
- In-built web-GUI for setup and control

\*Amp power limited when using PoE+

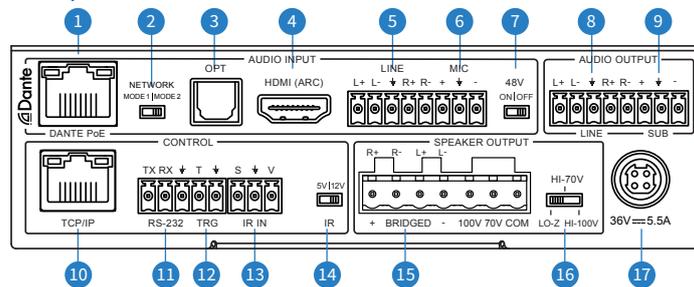
# Front Panel Description



- 1 Power Status LED
- 2 MIC Gain Rotary Dial - Adjust the microphone gain between -10 to +10dB
- 3 Lock Button - Press to lock or unlock the front panel buttons
- 4 Dante Button - Select Dante audio input
- 5 Opt Button - Select optical audio input
- 6 HDMI Button - Select HDMI ARC audio input
- 7 Line Button - Select analogue line audio input
- 8 Volume - Button - Decrease master output volume
- 9 Volume + Button - Increase master output volume
- 10 Volume Level LED's - Illuminates to show current volume level

**Note:** To factory reset this device, press and hold the Lock button and Volume + button for 10 seconds

# Rear Panel Description

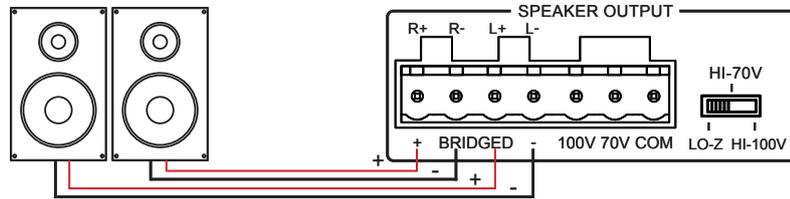


- 1 Dante (PoE) Port - RJ45 connector supporting PoE power to power NPA100DA
- 2 Network Mode Switch - Mode 1 allows Dante audio and TCP/IP and web-GUI control via the Dante PoE port  
- Mode 2 allows Dante audio via the Dante PoE Port, and TCP/IP and web-GUI control via the TCP/IP port
- 3 Optical Digital Audio Input - S/PDIF
- 4 HDMI ARC Audio Input - Supports HDMI ARC audio only, connect to HDMI ARC port on display. Supports 2ch PCM audio only
- 5 Analogue L/R Audio Input - Phoenix connector supports balanced or unbalanced analogue audio signals
- 6 MIC Audio Input - Phoenix connector supports balanced or unbalanced microphone audio signals
- 7 48V Phantom Power Switch - Enable or disable 48V phantom power for microphone audio input
- 8 Analogue L/R Audio Output - Phoenix connector supports balanced or unbalanced variable analogue audio signals
- 9 Sub Audio Output - Phoenix connector supports balanced or unbalanced analogue audio signal with fixed 80Hz Low Pass Filter
- 10 TCP/IP Port - RJ45 connector for TCP/IP and web-GUI control of the device
- 11 RS-232 - Phoenix connector for RS-232 control of the device
- 12 Trigger Input - Phoenix connector triggers device power on/off. Low level (0V) to turn amp on, high level (5-12V) to turn amp off
- 13 IR Input - 3.5mm stereo connector to connect to Blustream IR receiver for IR control of the device
- 14 IR Voltage Switch - Select between 5V or 12V IR voltage. **Please note:** included Blustream IR accessories are 5V
- 15 Speaker Output - Phoenix connector to connect speaker outputs, see Speaker Connections section for more information
- 16 Speaker Impedance Switch - Select low impedance (LO-Z, 4-8ohm) speakers, or high impedance (HI-70V or HI-100V) speakers
- 17 Power Port - Use included 36V/5.5A DC power adaptor if not powered via PoE++ device

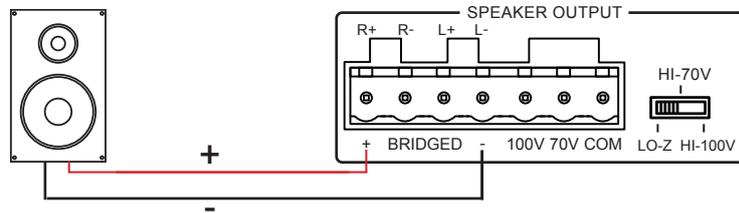
# Speaker Connections

The NPA100DA supports both Low Impedance (4-8ohm) speakers as well as High Impedance (70V-100V) speakers. It is necessary to configure the Speaker Impedance Switch as well as wire up the speakers according to the specific speakers you are using. Wiring examples for each of the available configurations are as follows:

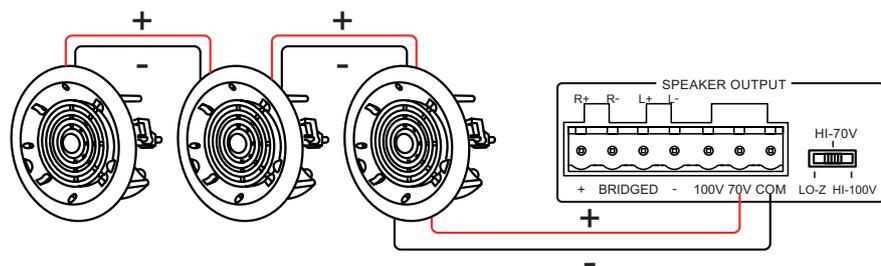
## Low Impedance (4-8ohm) Stereo Speakers:



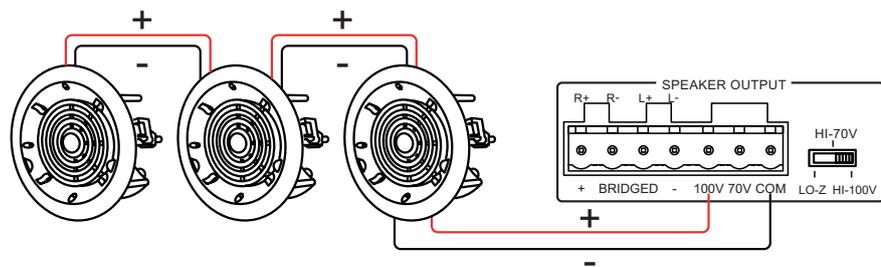
## Low Impedance (4-8ohm) Mono Speaker:



## High Impedance 70V Speakers:

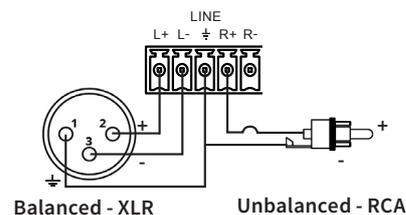


## High Impedance 100V Speakers:



# Audio Connections

The NPA100DA supports both balanced and unbalanced analogue audio input and output connections. The unit also features a subwoofer line level output with fixed high pass filter at 80Hz. The wiring configuration for these connections is as follows:



## Microphone Connection

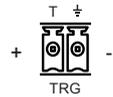
The NPA100DA supports both balanced and unbalanced microphone connections. The unit also features support for microphones that require 48V Phantom power via a switch located next to the microphone input.

When using unbalanced microphones, please ensure that both the ground and negative pins are connected to the negative signal together. The wiring configuration for these connections is as follows:



## Trigger Connection

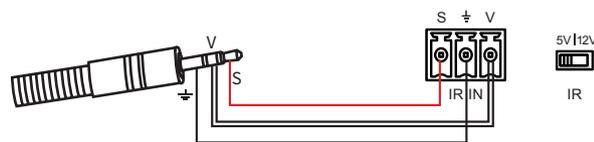
The NPA100DA features a trigger input to allow 3rd party devices to trigger the unit on or off. When the trigger input senses a low voltage level (0V) it will enable the amplifier output, while when it senses a high voltage level (5-12V) it will disable the amplifier out. This feature is enabled by default and can be adjusted via the web-GUI, or control API.



## IR Connection

The NPA100DA supports both 5V and 12V IR receivers via the IR input. There is a toggle switch to the right of the IR input port to specify the voltage required. Please note: if using a Blustream IR receiver, the switch should be in the 5V position.

The wiring for a Blustream IR receiver is as follows:

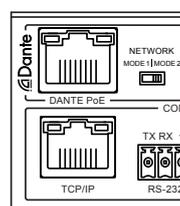


PIN	COLOUR
S	Red
GND	Black
V	White

## Network Connections

The NPA100DA features 2 x RJ45 sockets for combined or independent Dante network and Control network connectivity. The Network Mode switch, located next to the RJ45 socket, determines the mode of operation for the RJ45 sockets as follows:

- Mode 1 allows combined Dante audio, TCP/IP, and web-GUI control via the Dante PoE port
- Mode 2 allows Dante audio via the Dante PoE Port, then TCP/IP and web-GUI control via the TCP/IP port



## Dante® Audio

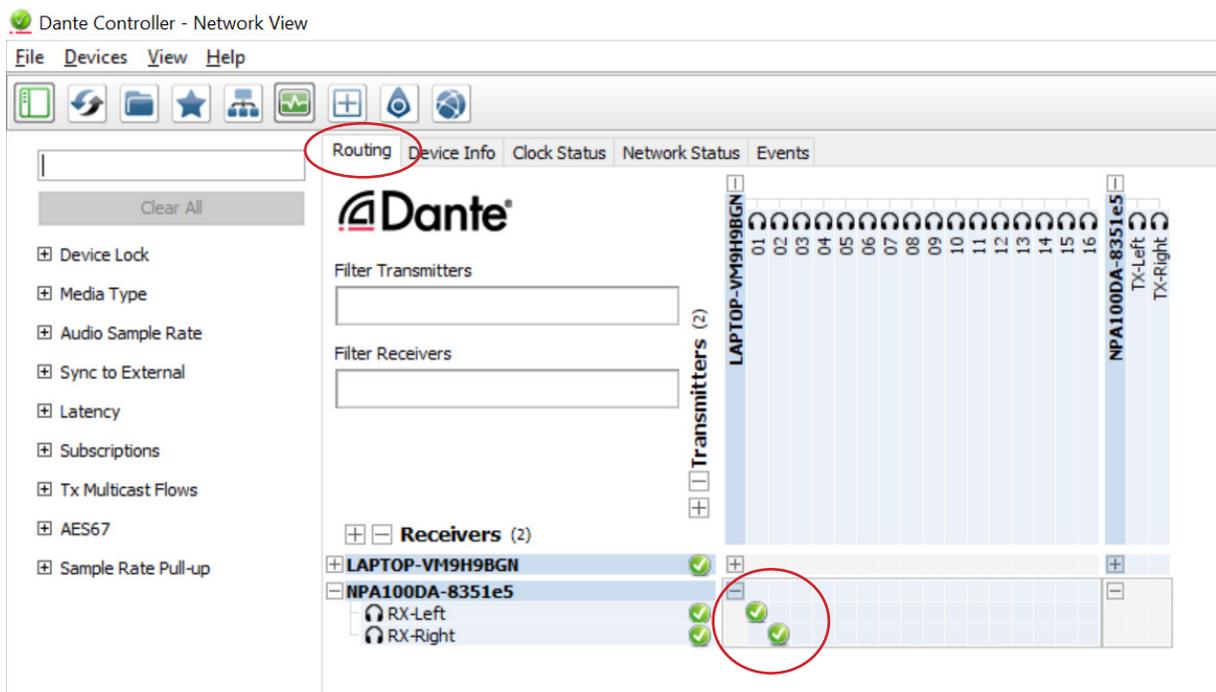
The NPA100DA features both a Dante Audio input and a Dante Audio output. The current source that is selected will always be the source that is output via Dante (eg: analogue line input, optical audio input, or HDMI ARC input).

**Please note:** It is not possible to route the Dante® audio input into the NPA100DA to the Dante® audio output within the same NPA100DA due to limitations within the Dante® Ultimo chipset utilised.

## Dante® Controller

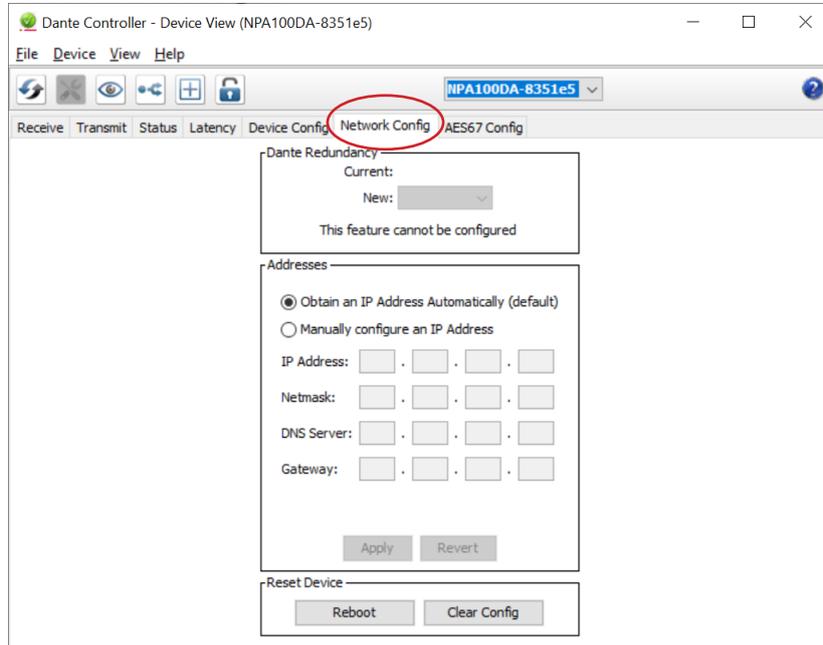
Dante® Controller software is required in order to setup and configure the NPA100DA as well as control your Dante® network. Audinate provide extensive training videos and documentation on their website. This can be found here: <http://www.audinate.com/products/software/dante-controller>

Upon connecting the NPA100DA to a compatible network, the Dante® Controller software should automatically discover the device. The NPA100DA will appear in the Dante® Controller with the name “NPA100DA”. On the “Routing” screen it is possible to then create audio routing between Dante® transmitters and receivers within the same system.



# Dante® Controller

By default, the NPA100DA is shipped with the network settings set to obtain an IP Address automatically. This means that if a DHCP server is present on the network, the NPA100DA will be provided with an IP Address. If no DHCP server is present then the NPA100DA will receive a default IP Address in the 169.254.xxx.xxx range. To change the IP Address of the NPA100DA, enter the “Network Config” menu in the “Device Info” screen of the Dante® Controller software:

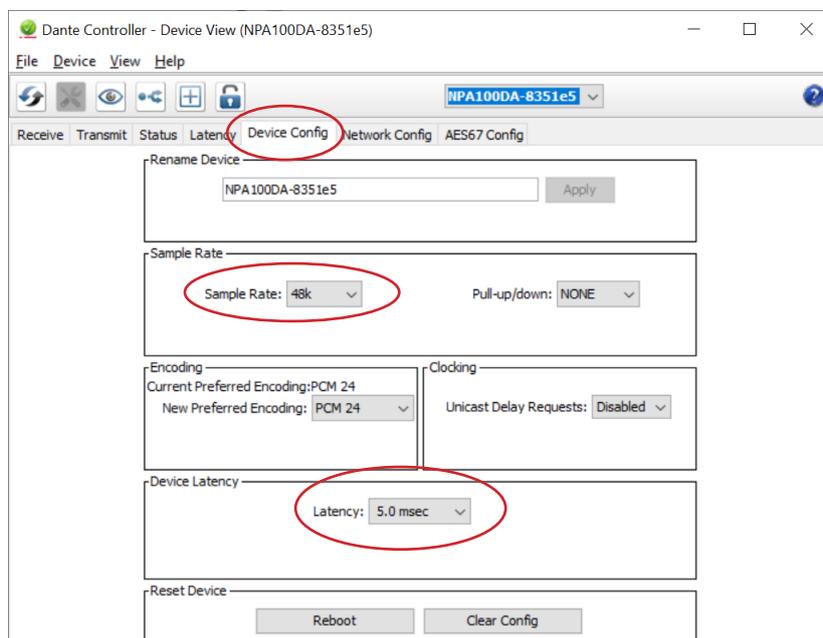


## Advanced Dante® Settings

It is possible to change various Dante® related settings of the NPA100DA under the “Device Info” screen in the Dante® Controller software. To do so, select the “Device Config” menu.

Here it is possible to adjust the sample rate of the NPA100DA. **Please note:** that Dante® products can only transmit or receive audio from other Dante® products that are set up with the same sample rate. A mismatch in sample rate may stop audio from transmitting.

Under the “Device Config” screen the latency of the NPA100DA can be configured with 1, 2 or 5 milliseconds delay.



## Web-GUI Control

The NPA100DA features an in-built web-GUI for control and configuration of the unit. By default the device is set to DHCP, however if a DHCP server (eg: network router) is not installed the device IP address will revert to below details:

Default **Username:** [blustream](#)

Default **Password:** [1234](#)

Default **IP Address:** [192.168.0.200](#)

The device can also be accessed via its mDNS name which is defaulted to: <http://npa100da.local/>

The web-GUI supports multiple users along with multiple user permissions as follows:

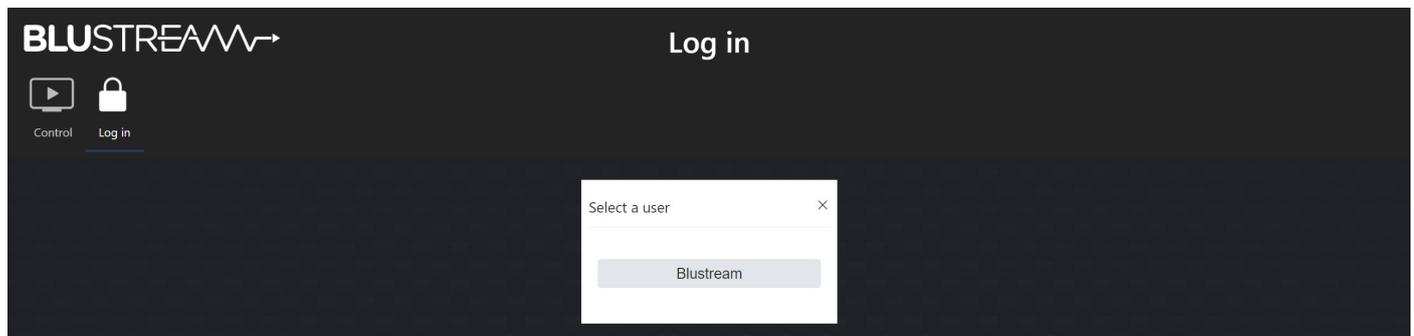
**Guest Account** - This account does not require a user to login. The Guest account can only change sources for each zone. Guest access can be changed by the Admin, limiting inputs or outputs as necessary. The Guest account can be disabled.

**User Accounts** - User accounts can be utilised, each with individual login details. User accounts can be assigned permissions to specific areas and functions. A User must log in to make use of these functions.

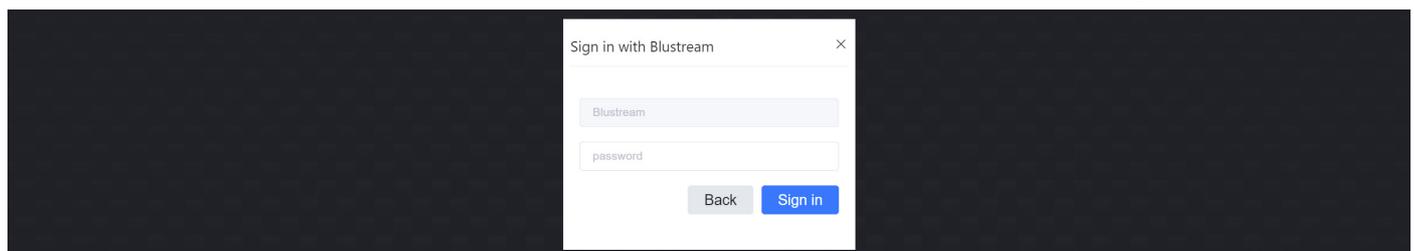
**Admin Account** - This account allows full access to all functions of the unit as well as assigning users with permissions as required.

### Login Page:

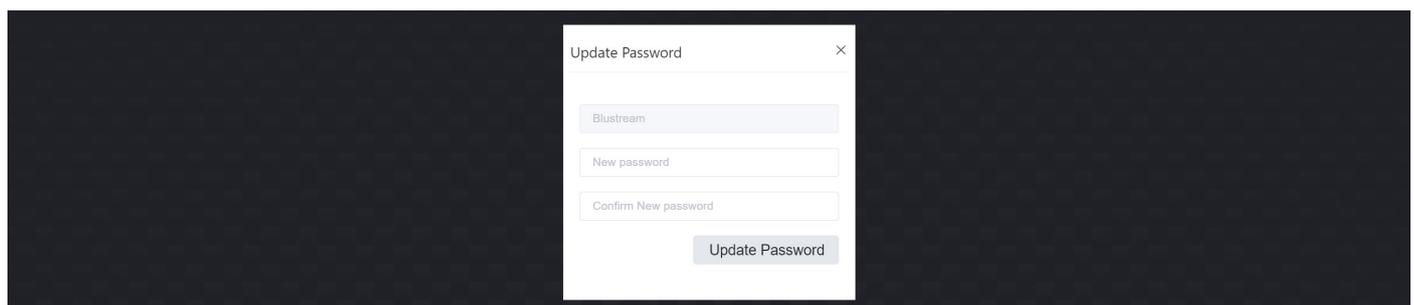
The Login Page allows a user or admin to login and access additional functionality within the web GUI.



Once a user is selected from the list it is required to enter the password for that user in order to sign in.



Please note: the first time the Admin logs into the web GUI, the default admin password will need to be changed. It is important to record this password as there is no way to recover it in the event that it is forgotten.



### Guest Control Page:

The Guest Control Page allows a guest to change source inputs by simply selecting the square that corresponds with the input you wish to listen to. The guest can also adjust the master volume output of the unit by using the volume slider or the volume up / down buttons as well as the mute toggle button.

The guest user also has the ability to adjust the microphone input volume, as well as select the MIC only button which will mute all source audio with the exception of the microphone input.

The screenshot displays the BLUSTREAM Control interface. At the top left is the BLUSTREAM logo, and at the top right is the word "Control". Below the logo are two icons: a play button labeled "Control" and a lock icon labeled "Log in".

The main section is titled "Output Setting". It features a "Source:" label followed by four buttons: "DANTE" (highlighted in blue), "OPTICAL", "HDMI ARC", and "LINE". Below these buttons is a "MASTER" volume slider ranging from 0 to 100, with a blue indicator at 50. To the right of the slider are three circular icons: a speaker icon, a volume up icon, and a volume down icon. The number "50" is displayed between the speaker and volume up icons.

The bottom section is titled "Input Setting". It features a "MIC" volume slider ranging from 0 to 100, with a blue indicator at 100. To the right of the slider are three circular icons: a speaker icon, a volume up icon, and a volume down icon. The number "100" is displayed between the speaker and volume up icons. Below the slider is a "MIC Only" toggle switch, which is currently in the "Off" position.

**Input Page:**

The Input Page allows for a user to adjust settings related to the inputs of the NPA100DA, including changing the source input. To change inputs, simply select the input required. The user also has the ability to adjust the volume for each input independently, as well as mute individual inputs. The following Microphone input settings can also be adjusted at the bottom of the Input page:

- MIC Enabled - enable or disable the microphone input
- Anti Feedback - when enabled, the unit attempts to reject microphone feedback loops to avoid squealing
- Auto Gain - when enabled, the unit will automatically adjust the microphone input gain based on the audio signal level being received
- Auto Duck - when enabled, the input audio signal will automatically reduce in level when microphone audio is sensed
- Duck Level - when enabled, this is the level in % that the input audio signal will be reduced to
- Duck Sensitivity - sets the sensitivity level of the Auto Duck function between 0-100 (low to high)
- Mic GEQ - 3 band graphic EQ to adjust the audio performance of the microphone input

The user can also update their password via the Update Password button, or log out via the Log Out button.

The screenshot displays the 'Input' configuration page for the BLUSTREAM NPA100DA. At the top, there is a navigation menu with icons for Input, Output, Users, Settings, System, Information, Update Password, and Log Out. The 'Input' section is active, showing volume sliders for DANTE, OPTICAL, HDMI ARC, and LINE inputs, each set to 100%. Below this is the 'MIC Setting' section, which includes a volume slider for the MIC input (set to 0) and a 'MIC Only' toggle switch (set to 'off'). At the bottom, there are several toggle switches for 'MIC Enabled' (On), 'Anti Feedback' (Off), and 'Auto Gain' (Off). There are also input fields for 'Auto Duck' (Off), 'Duck Level' (30), and 'Duck Sensitivity'. The 'MIC GEQ' section features three frequency sliders for 250, 1.25K, and 6.3K Hz, all set to 0, with a 'Reset' button.

**Output Page:**

The Output page allows users to change settings specific to the outputs of the NPA100DA.

The NPA100DA features 4 audio output options:

- Master output - this controls the audio output for all outputs (independent to the individual outputs below)
- Amp output - this controls the audio amplifier output volume
- Line output - this controls the analogue line level output volume
- Dante output - this controls the Dante audio output volume

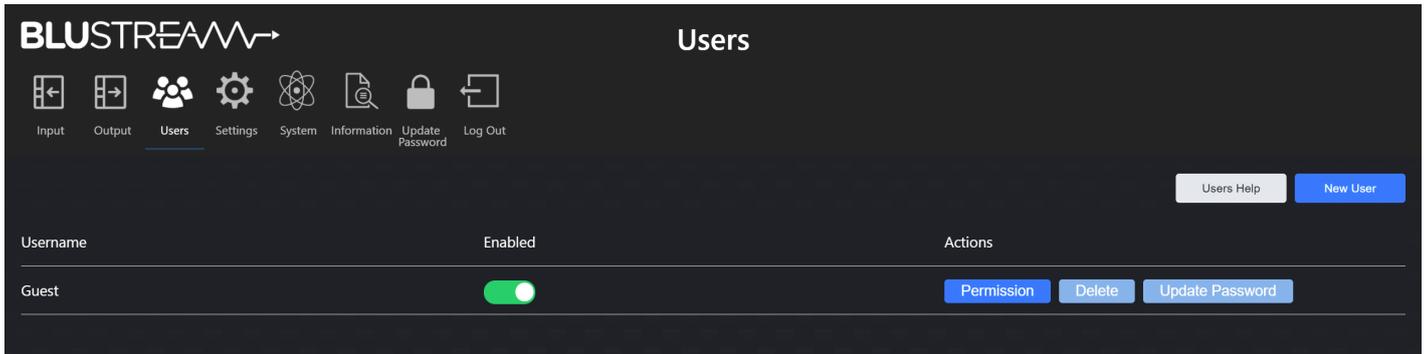
It is also possible to invert either the left and/or right audio channel, mute each output, mix each output (stereo output, left channel only, right channel only, left and right channels summed into mono) as well as adjust the audio delay from 0-50ms. The Amp output also has the ability to change the output impedance. It is important to configure this to either 4Ω or 8Ω to match the impedance of speakers being used or you could risk clipping the amplifier output.

A user can also adjust the 31 band GEQ (Graphic Equaliser) per each output channel (Amp, Line and Dante). There are 3 configuration options - Flat, Custom and Custom 2, where a user can save their own configuration into these slots.

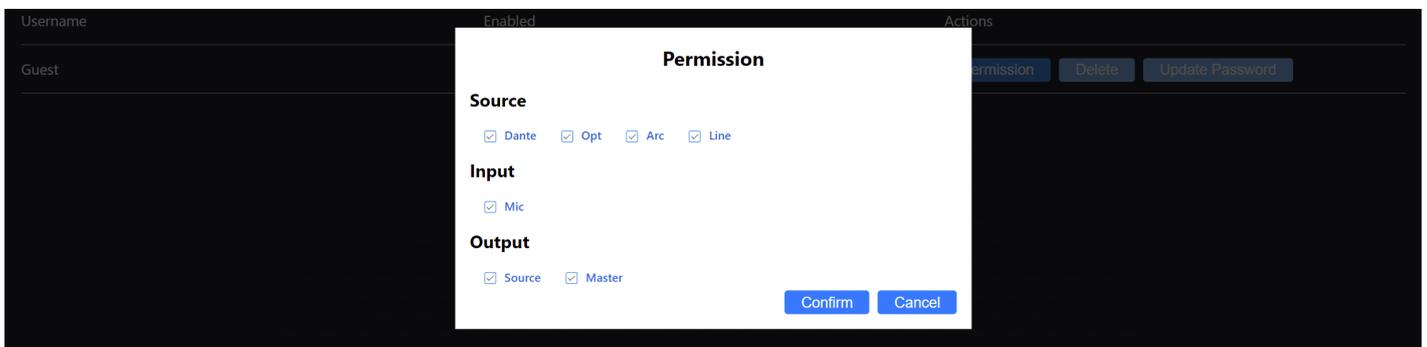
The screenshot displays the 'Output' configuration page in the BLUSTREAM web interface. At the top, there is a navigation menu with icons for Input, Output (selected), Users, Settings, System, Information, Update Password, and Log Out. The main section is titled 'Output Setting' and contains four output configuration panels: MASTER, AMP, LINE, and DANTE. The AMP panel is currently active, showing options for L-Invert, R-Invert, Mute, Mix (set to 0), AMP Load (set to 4Ω), and a Delay slider (set to 0ms). Each panel includes a volume slider and mute icons. Below the output settings is the 'GEQ Setting' section, which includes a Channel selector (set to AMP), an Equalizer mode selector (set to Flat), and a 31-band frequency response graph. The graph shows frequency sliders for various bands, with a 'Reset' button at the bottom.

**User Page:**

The Users page allows the admin to add, remove or disable users. Updating passwords of a user can be carried out from here also.

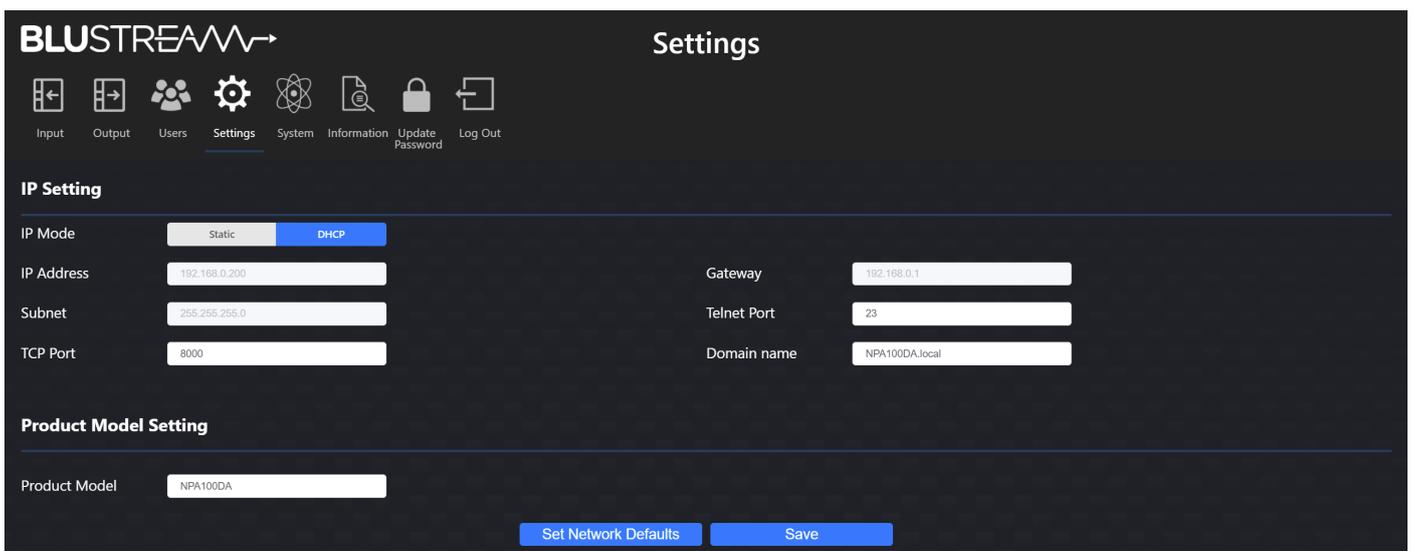


You can adjust individual user permissions such as source input selection and output selection, to allow users access to only specific inputs and outputs.



**Settings Page:**

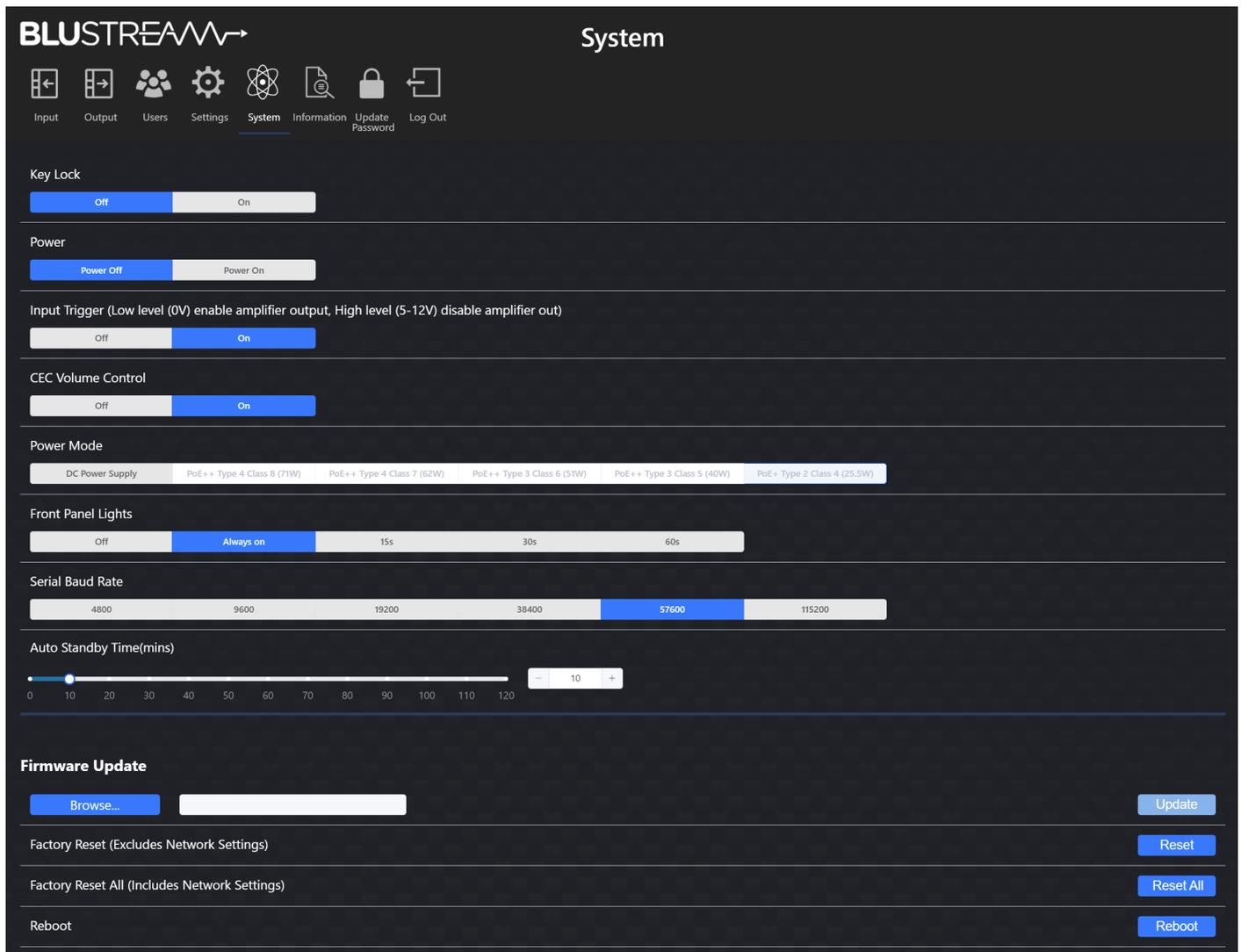
The Settings page allows users to change settings specific to the network configuration of the NPA100DA such as the devices IP address and port settings. You can also adjust the mDNS or Domain Name for the device, which can also be used to access unit via, for example: <http://NPA100DA.local/>



**System Page:**

The System page allows users to change the system configuration of the NPA100DA such as:

- Key Lock On/Off - enable or disable to front panel keys from functioning
- Power On/Off - turn the unit on or off
- Input Trigger On/Off - enable or disable input trigger function
- CEC Volume Control On/Off - enable or disable CEC volume control to allow a television remote to control the volume of NPA100DA
- Power Mode - if the NPA100DA is connected to DC power supply, then PoE power modes will not be selectable. If the NPA100DA is connected via PoE, it will default to the minimum PoE power specification (PoE+ Type 2 Class 4). It is recommended to set this to the PoE power specification of the PoE adapter powering the NPA100DA
- Front Panel Lights - enable or disable the front panel LED lights, or set them to time out after a specific time (15, 30 or 60 seconds)
- Serial Baud Rate - specify the baud rate of the serial RS-232 port on the device
- Auto Standby Time (minutes) - specify the time in minutes where the unit will enter standby mode if no audio signal is being received on the selected input (default is 10 minutes)
- Firmware Update - allows a user to update the firmware of the device
- Factory Reset (Excludes Network Settings) - factory defaults all settings except for network configuration
- Factory Reset (Includes Network Settings) - factory defaults all settings including network configuration
- Reboot - power cycles the unit without changing any configuration settings



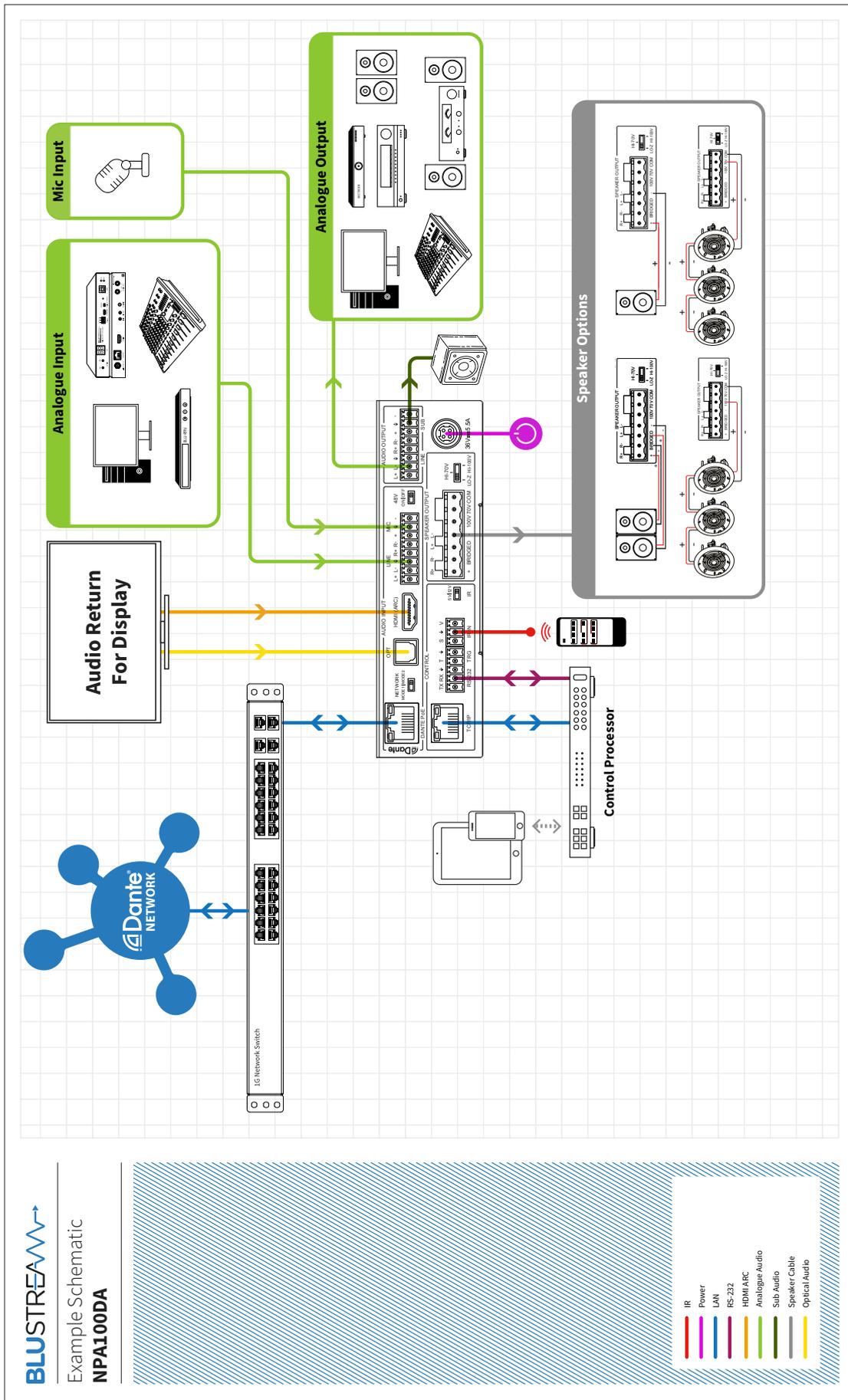
**Information Page:**

The Information page provides useful information such as firmware version and network settings.

The screenshot shows the 'Information' page of the BLUSTREAM interface. At the top left is the BLUSTREAM logo. To its right is the title 'Information'. Below the logo is a navigation menu with icons and labels: Input, Output, Users, Settings, System, Information (highlighted), Update Password, and Log Out. The main content area is titled 'Status' and contains a table of system information.

Status	
Model	NPA100DA
Firmware Version	V1.10.0y/V1.13.0z
Hostname	NPA100DA
IP Address	192.168.0.200
Subnet Mask	255.255.255.0
Gateway	192.168.0.1
MAC Address	6C:DF:FB:0F:1F:C8

# Schematic



## Telnet & RS-232 Control Port

The NPA100DA can be controlled via a 3-pin Phoenix to serial RS-232 cable or via Telnet.

The RS-232 communication settings and commands are as follows:

**Baud Rate:** 57600 bps

**Parity:** None

**Flow Control:** None

**Data Bit:** 8-bit

**Stop Bit:** 1-bit

RS-232 COMMAND	DESCRIPTION
?/HELP	Print Help Information
STATUS	Print System Status And Port Status
PON	Power On, System Run On Normal State
POFF	Power Off, System Run On Power Save State
RESET	"Reset System Settings To Default (Should Type ""Yes"" To Confirm, ""No"" To Discard)"
RESET ALL	"Reset System and Network Settings To Default (Should Type ""Yes"" To Confirm, ""No"" To Discard)"
REBOOT	Set System Reboot
AUTO STB xx	Set System Auto Standby Time xx=0:Auto Standby Off xx=[1...120]:Auto Standby Time,(mins)
AMPMODE xxx	Set Amp Power to xxx xxx=2:PoE++ Type 4 Class 8 (71W) xxx=3:PoE++ Type 4 Class 7 (62W) xxx=4:PoE++ Type 3 Class 6 (51W) xxx=5:PoE++ Type 3 Class 5 (40W) xxx=6:PoE+ Type 2 Class 4 (25.5W)
KEY ON/OFF	Set System KEY Control On Or Off
LCD ON/OFF/15/30/60	Set LCD Always On Or Auto Turn Off In Power On State Or Turn On 15s/30s/60s
IR ON/OFF	Set System IR Control On Or Off
TRIG ON/OFF	Set Trigger On Or Off
CEC ON/OFF	Set CEC Volume Control On Or Off
RSB xx	Set RS232 Baud Rate to xx bps xx=[1...3]:1:4800,2:9600,3:19200 xx=[4...6]:4:38400,5:57600,6:115200
FAN xx ON/OFF	Set Onboard Fan:xx Auto Turn On Or Always Off xx=[0...2]:0:All,1:Fan1,2:Fan2
VOL+	Increase System Volume
VOL-	Decrease System Volume
VOLxx	Set System Volume Value to xx xx=[0...100]:Volume Value
MUTE ON/OFF	Set Mute On Or Off
IN xx VOL yy	Set Input:xx Volume to yy xx=[0...4]:0:All,1:DANTE,2:OPT,3:HDMI,4:LINE yy=[0...100]:Volume Value
IN xx VOL+	Increase Input:xx Volume xx=[0...4]:0:All,1:DANTE,2:OPT,3:HDMI,4:LINE
IN xx VOL-	Decrease Input:xx Volume xx=[0...4]:0:All,1:DANTE,2:OPT,3:HDMI,4:LINE
IN xx MUTE ON/OFF	Set Input:xx Mute On Or Off xx=[0...4]:0:All,1:DANTE,2:OPT,3:HDMI,4:LINE
MIC EN ON/OFF	Set Mic Enable On Or Off
MIC ONLY ON/OFF	Set Mic Only On Or Off
MIC MUTE ON/OFF	Set Mic Mute On Or Off

RS-232 COMMAND	DESCRIPTION
MIC AF ON/OFF	Set Mic Anti Feedback On Or Off
MIC AG ON/OFF	Set Mic Auto Gain On Or Off
MIC AD ON/OFF	Set Mic Auto Duck On Or Off
MIC EQ xx VAL yy	Set Mic EQ:xx to Value:yy xx=[0...3]:EQ Index,0:ALL,1:250,2:1.25K,3:6.3K yy=[0...20]:Mic EQ Value
MIC EQ RESET	Set Mic EQ Reset
MIC ADLV xx	Set Mic Auto Duck Level to xx
MIC ADSV xx	Set Mic Auto Duck Sensitivity to xx xx=[0...100]:Duck Level
MIC VOL xx	Set Mic Volume to xx xx=[0...100]:Volume Value
MIC VOL+	Increase Mic Volume
MIC VOL-	Decrease Mic Volume
OUT xx FR yy	Set Output:xx From Input:yy xx=[00-01] for all Output. (Not Support Single Output Switching) yy=[0...4]:0:Default(LINE),1:DANTE,2:OPT,3:HDMI,4:LINE
OUT xx VOL yy	Set Output:xx Volume to yy xx=[0...3]:0:ALL,1:AMP,2:LINE,3:DANTE yy=[0...100]:Volume Value
OUT xx VOL+	Increase Output:xx Volume xx=[0...3]:0:ALL,1:AMP,2:LINE,3:DANTE
OUT xx VOL-	Decrease Output:xx Volume xx=[0...3]:0:ALL,1:AMP,2:LINE,3:DANTE
OUT xx MUTE ON/OFF	Set Output:xx Mute On Or Off xx=[0...3]:0:ALL,1:AMP,2:LINE,3:DANTE
OUT xx DLYT yy	Set Output:xx Delay Time to yy(ms) xx=[0...3]:0:ALL,1:AMP,2:LINE,3:DANTE yy=[1..50]:Delay Time, Millisecond
OUT xx REVB ON/OFF	Set Output:xx Reverb On Or Off xx=[0...3]:0:ALL,1:AMP,2:LINE,3:DANTE
OUT xx PHASE yy INV ON/OFF	Set Output:xx L-Inverter Or R-Inverter On Or Off xx=[0...3]:0:ALL,1:AMP,2:LINE,3:DANTE yy=[0,1]0:LEFT,1:RIGHT
OUT xx MIX yy	Set Output:xx Mix yy xx=[0...3]:0:ALL,1:AMP,2:LINE,3:DANTE yy=[1,2]:1:STEREO,2:LEFT-CH yy=[3,4]:3:RIGHT-CH,4:LEFT-CH and RIGHT-CH
OUT xx EQ yy VAL zz	Set Output:xx GEQ:yy to zz xx=[0...3]:0:ALL,1:AMP,2:LINE,3:DANTE yy=[1..31]:EQ Index zz=[0..20]:EQ Value
OUT xx EQ PRESET yy	Set Output:xx GEQ:yy to Preset:yy xx=[0...3]:0:ALL,1:AMP,2:LINE,3:DANTE yy=[1...3]:1:Flat,2:Custom1,3:Custom2
NET DHCP ON/OFF	Set Auto IP(DHCP) On Or Off
NET IP xxx.xxx.xxx.xxx	Set IP Address
NET GW xxx.xxx.xxx.xxx	Set Gateway Address
NET SM xxx.xxx.xxx.xxx	Set Subnet Mask Address
NET TCPPORT xxxx	Set TCP/IP Port
NET TN xxxx	Set Telnet Port
NET RB	Network Reboot and Apply New Config!!!
NET DNS xxxx	Set DNS Domain Name To xxxx

# Specifications

## NPA100DA

- **Audio Inputs:** 1 x 5-Pin Phoenix connector (analogue)  
1 x 3-Pin Phoenix connector (MIC)  
1 x HDMI Type A, 19-pin, female, locking (ARC)  
1 x Optical (S/PDIF)
- **Audio Outputs:** 1 x 4-Pin Phoenix connector (4 / 8 ohm speaker)  
1 x 3-Pin Phoenix connector (70 / 100V speaker)  
1 x 5-Pin Phoenix connector (analogue audio)  
1 x 3-Pin Phoenix connector (LFE subwoofer)
- **Ethernet Port:** 1 x LAN RJ45 connector (Dante)  
1 x LAN RJ45 connector (Network)
- **RS-232 Serial Port:** 1 x 3-Pin Phoenix connector
- **IR Input Ports:** 1 x 3-Pin Phoenix connector
- **Trigger Input:** 1 x 2-Pin Phoenix connector
- **Rack Mountable:** 19" Rack mounting and wall / surface mounting kit included
- **Casing Dimensions (W x H x D):** 250mm x 150mm x 45mm
- **Dimensions Including Connections (W x H x D):** 252mm x 150mm x 45mm
- **Shipping Weight:** 2.8kg
- **Operating Temperature:** 32°F to 104°F (0°C to +40°C)
- **Storage Temperature:** -4°F to 140°F (-20°C to +60°C)
- **Power Supply:** PoE++ Type 4, or 36V/5.5A DC 4-pin DIN

**NOTE:** Specifications are subject to change without notice. Weights and dimensions are approximate.

## AMP POWER SPECIFICATION

POWER SOURCE	AMP OUTPUT
36V/5.5A DC	100W
PoE++ Type 4 Class 8	55W
PoE++ Type 4 Class 7	45W
PoE++ Type 3 Class 6	35W
PoE++ Type 3 Class 5	25W
PoE+ Type 2 Class 4	10W

# Package Contents

## NPA100DA

- 1 x NPA100DA
- 1 x 36V/5.5A power supply
- 1 x Remote control
- 1 x IR Receiver
- 1 x Rack mounting kit
- 1 x Wall / surface mounting kit
- 4 x Rubber feet
- 1 x Quick Reference Guide

# Maintenance

Clean this unit with a soft, dry cloth. Never use alcohol, paint thinner or benzene to clean this unit.

## Acknowledgements

Dante® is a registered trademark of Audinate Pty Ltd.

## Certifications

### FCC Notice

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

**CAUTION** - changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

### CANADA, INDUSTRY CANADA (IC) NOTICES

This Class B digital apparatus complies with Canadian ICES-003.

Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

### CANADA, AVIS D'INDUSTRY CANADA (IC)

Cet appareil numérique de classe B est conforme aux normes canadiennes ICES-003.

Son fonctionnement est soumis aux deux conditions suivantes : (1) cet appareil ne doit pas causer d'interférence et (2) cet appareil doit accepter toute interférence, notamment les interférences qui peuvent affecter son fonctionnement.

### CORRECT DISPOSAL OF THIS PRODUCT

This marking indicates that this product should not be disposed with other household wastes. To prevent possible harm to the environment or human health from uncontrolled waste disposal, recycle it responsibly to promote the sustainable reuse of material resources. To return your used device, please use the return and collection systems or contact the retailer where the product was purchased. They can take this product for environmentally safe recycling.





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