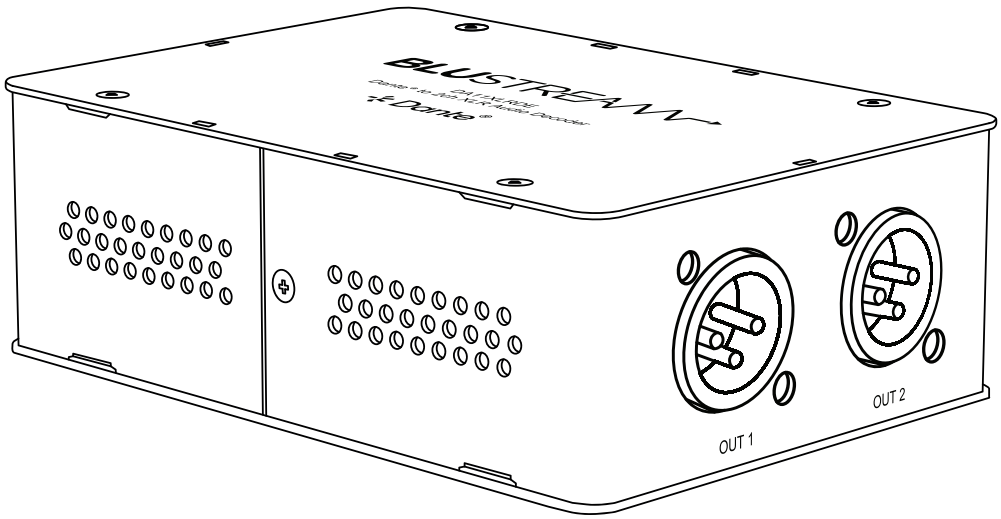


DA11XLRDE

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.

Eco Friendly Packaging

This product has been packaged with fully recyclable materials, including compostable bags. Please help us to help the environment.

Safety and performance notice

Do not substitute or use any other power supply other than approved PoE network products or approved Blustream power supplies.

Do not disassemble the device for any reason. Doing so will void the manufacturer's warranty.

Contents

Introduction

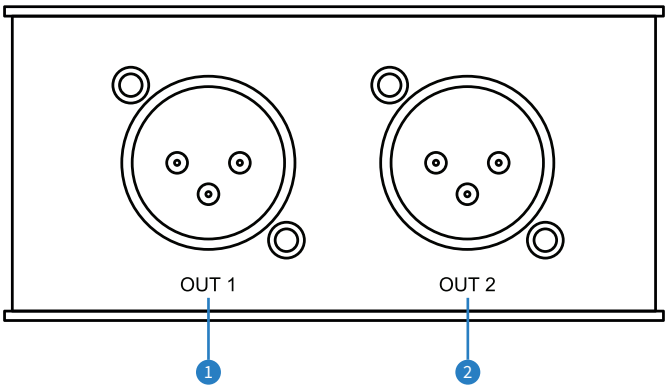
The DA11XLRDE is designed to convert Dante® digital audio signals into 2-channel analogue audio via balanced or unbalanced XLR outputs. This plug-and-play device can be powered either through PoE (Power over Ethernet) from a compatible network switch or via a local 12V power supply input. Supporting AES67 RTP audio transport, the DA11XLRDE also features independent gain control for each channel, allowing precise adjustment of audio sensitivity as needed.

FEATURES:

- Dante® network interface for 2 x XLR audio outputs
- Decodes 2x Dante® digital channels to dual XLR balanced or unbalanced audio outputs
- Supports: 44.1, 48, & 96kHz sample rates @ 16, 24 and 32-bit
- Configurable Dante® device latency (supports 2, 3, 4, 5 or 10ms configurable using Dante® Controller)
- Independent output gain control per channel: -28dBV to +20dBu
- Supports AES67 RTP audio transport
- Features Class 0 802.3af PoE for powering of product from any PoE switch
- Local 12V power supply input for when network switch does not support PoE

Please note: PS121PH power supply sold separately.

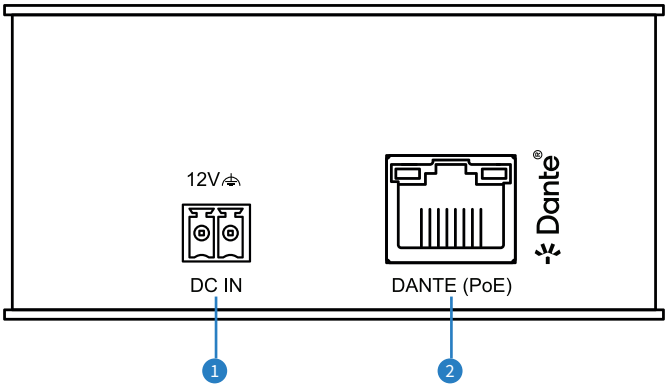
Front Panel Description



1 XLR Output 1

2 XLR Output 2

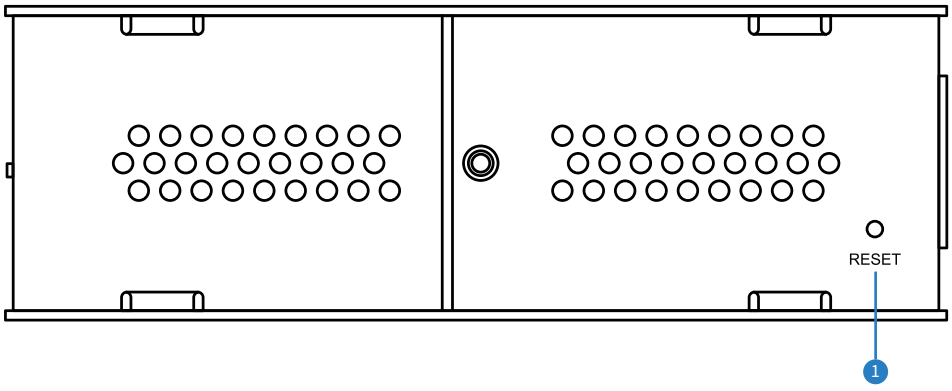
Rear Panel Description



1 Power Supply Input — 2-pin Phoenix connector

2 Dante PoE Port — RJ45 port

Side Panel Description



1 Reset Switch — press and hold for at least 10 seconds

Resetting the DA11XLRDE

To reset the DA11XLRDE back to factory defaults, use a thin tool to press and hold the reset switch. Hold for at least 10 seconds before releasing.

The reset process takes approximately 30 seconds.

Operation and Connections

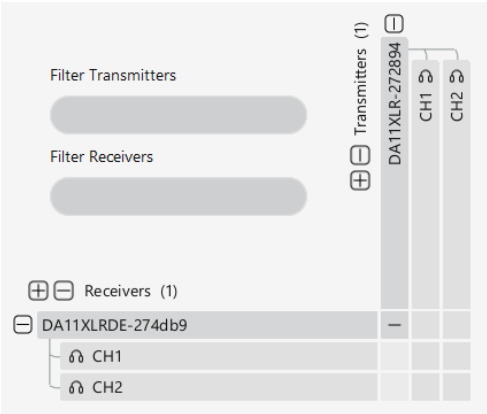
The DA11XLRDE is initially configured with the Dante® Controller app. Connect the Dante® port to a PoE powered Dante® network. If PoE is not available, the unit can be powered via the Phoenix power port.

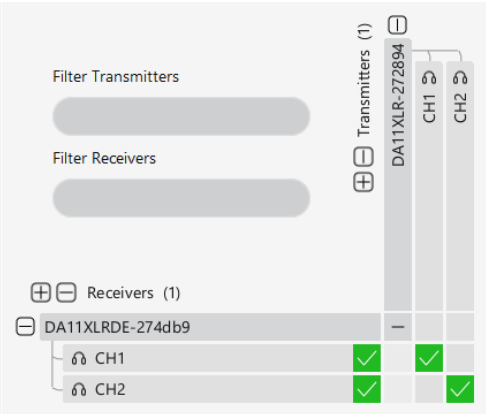
Dante® Controller

The Dante® Controller software is required in order to setup and configure the DA11XLRDE as well as control a Dante® network.

Audinate provide extensive training videos and documentation on their website, which can be found here:
http://www.audinate.com/products/software/dante-controller

Upon connecting the DA11XLRDE to a compatible network, the Dante® Controller software should automatically discover the device. The DA11XLRDE will appear in the Dante® Controller as **DA11XLRDE-xxxxxx**, where xxxxxx are the end of the MAC address. On the Routing tab, audio can be routed as a matrix between Dante® transmitters and receivers in your system.





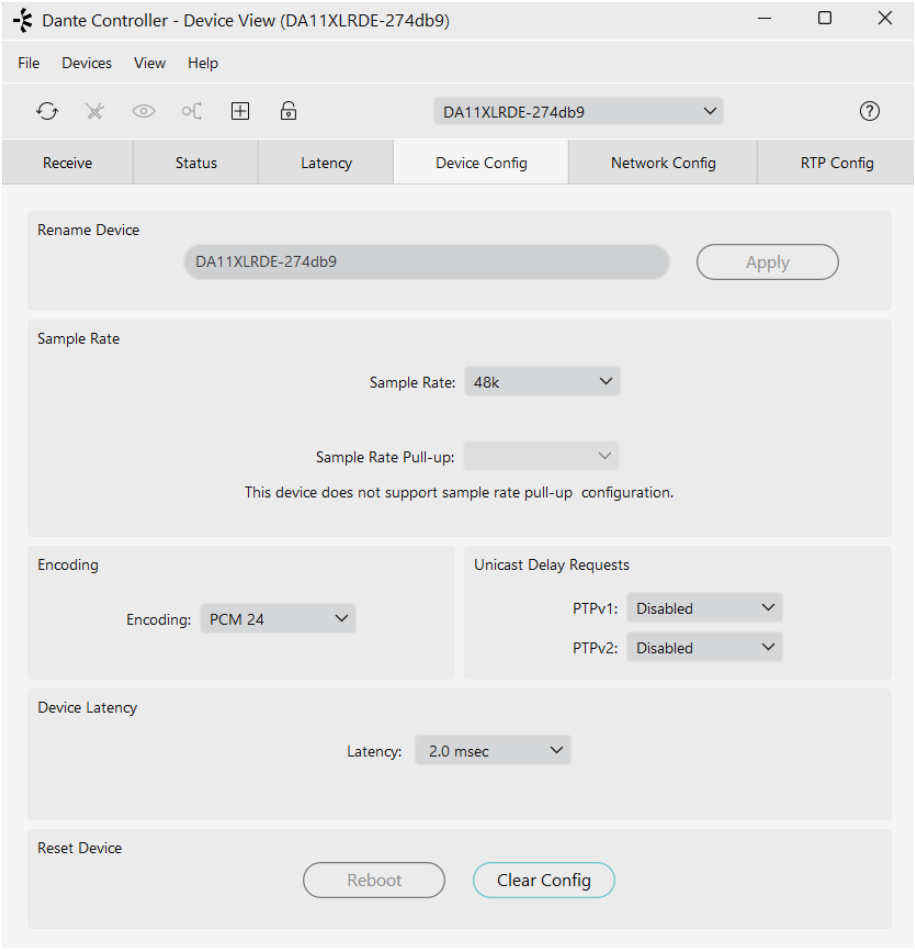
The DA11XLRDE is shipped with its network settings set to obtain an IP Address automatically; if a DHCP server is present on your network, it will provide the DA11XLRDE with an IP Address. If no DHCP server is present then the DA11XLRDE will receive a default IP Address in the **169.254.xxx.xxx** range.

Routing	Device Info	Clock Status	Network Status	Events

Device Name	Model Name	Product Version	Dante Version	Device Lock	Primary Address	Primary Link Speed	Secondary Address	Secondary Link Speed
DA11XLRDE-274db9	DA11XLRDE	1.0.1	1.3.3.5	☐	169.254.71.194	100Mbps	N/A	N/A

Advanced Dante® Settings

Further settings of the DA11XLRDE can be configured in the Dante® Controller software. Under the Device Info tab, select the DA11XLRDE to open the Device View window.



The sample rate and latency can be adjusted under the Device Config tab, while network settings and the IP address can be set under the Network Config tab.

Please note: 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.

Web GUI - Log In and Initialisation

The Web GUI allows for full configuration, ongoing maintenance and control of the DA11XLRDE through a web portal. Connect a TCP/IP RJ45 socket from the local network, or directly from a computer, to the DA11XLRDE in order to access the Web GUI.

By default, the DA11XLRDE is set to obtain an IP address via DHCP; however, if a DHCP server (eg: network router) is not installed, the IP address will revert to below details:

IP Address Range is: **169.254.xxx.xxx** Default Admin Username is: **blustream** Default Admin Password is: **@Bls1234**

If the IP address of the DA11XLRDE is not known, it can be found by:

- Using the Dante Controller® software
- Using a 3rd party IP scanning tool
- Using the default mDNS hostname address
  - The DA11XLRDE can be accessed via its mDNS hostname when the IP address is not known.
  - The default mDNS name is **da11xlrde.local**, which allows devices on the same local network to resolve the product's IP addres vs without requiring a dedicated DNS server.

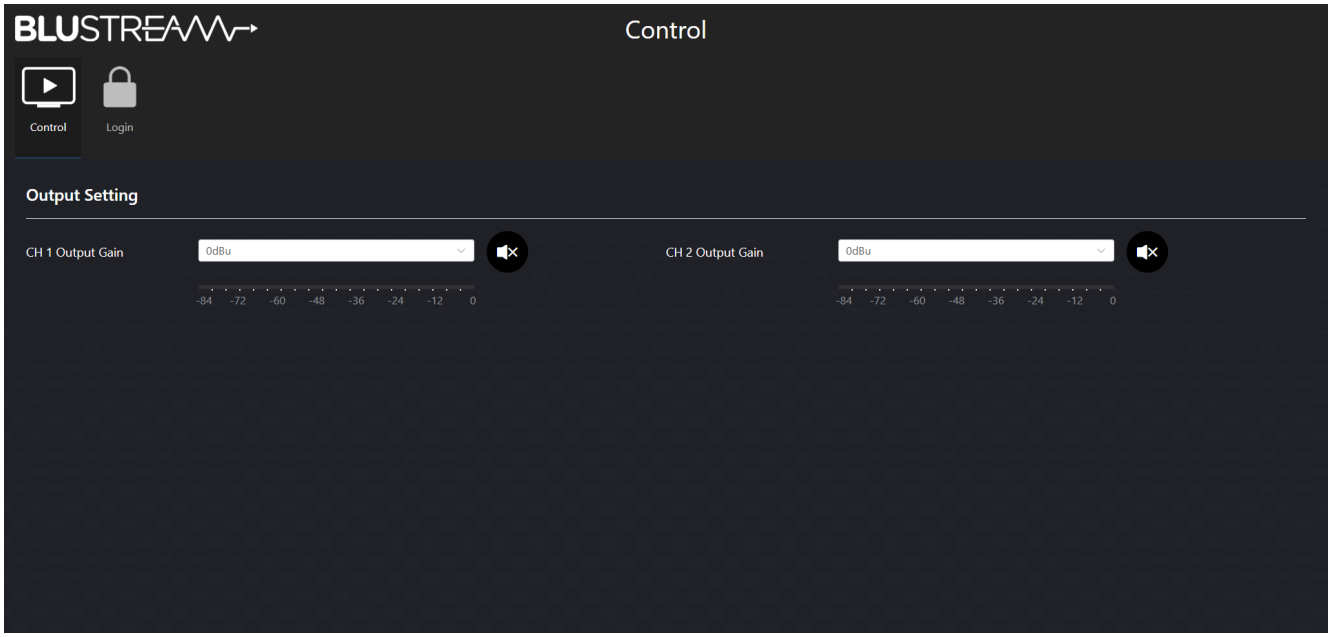
When initially accessing the Web-GUI of the DA11XLRDE, the Guest Control page is shown as below. Permissions for the Guest can be set so as to restrict control for users who are not logged in.

Guest Control Page:

The Guest user is able to access the Control page of the Web GUI without logging in. Depending on the permissions set, control for the output gain can be accessed from here.

Permissions can be set or revoked from the Users page when logged in, depending on the requirements of the installation.

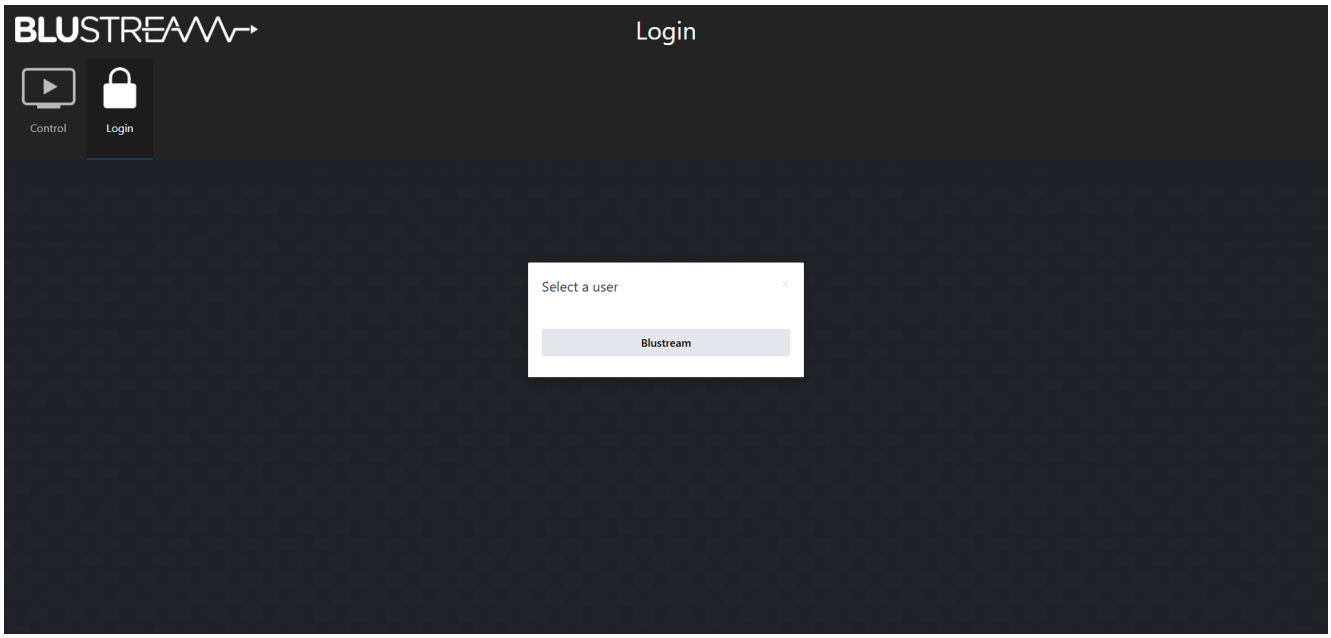
It is recommended to set permissions for the Guest user to avoid unwanted access or changes.



Login Page:

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

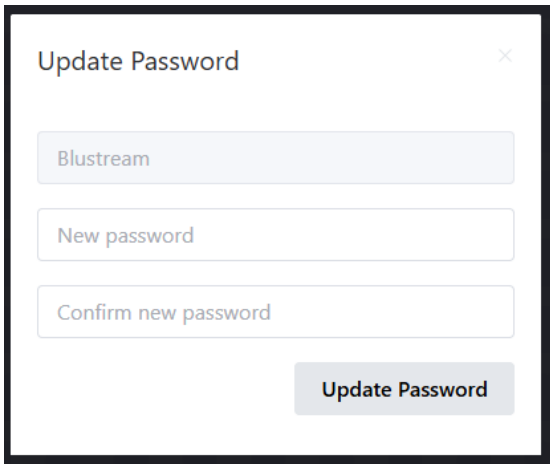
Administrator (Blustream)	The Administrator account allows full access to all functions and configuration of the device and is always enabled
Guest	When enabled, various Web GUI pages can be accessed without logging in depending on the permissions set
User Accounts	User accounts can be utilised, each with individual login details and can be assigned permissions to specific areas and functions



Please note: the first time the Administrator logs into the Web GUI of the DA11XLRDE the default password must be changed to a unique password. Please retain this password for future use. Forgetting the password will mean having to factory reset the device, losing all prior network and configuration settings.

New password regulations require passwords being set for products to be a minimum of 8 characters and contain a minimum of: 1 x uppercase letter, 1 x lowercase letter, 1 x symbol and 1 x number.

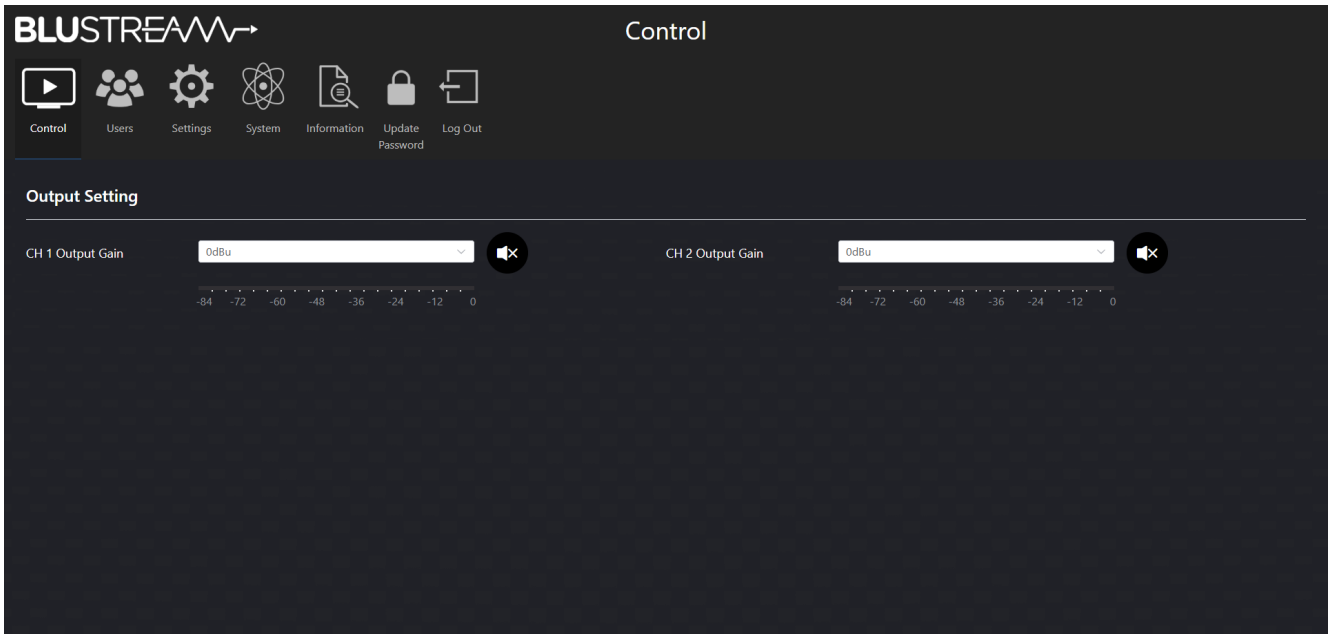
Passwords can be changed as required within the Web GUI of the device once logged in.



Web GUI - Control

Once logged in as the Administrator, the user will be directed to the Control page and additional pages become available from within the Web GUI. These can be navigated to by using the navigation bar at the top of the Web GUI and pressing the corresponding icon.

The Control page allows for output gain adjustment, muting and level monitoring via the VU meter.



Output Settings

CH1/2 Ouptut Gain

- Set the gain for the output
- Gain can be set between -28dBV and +20dBu

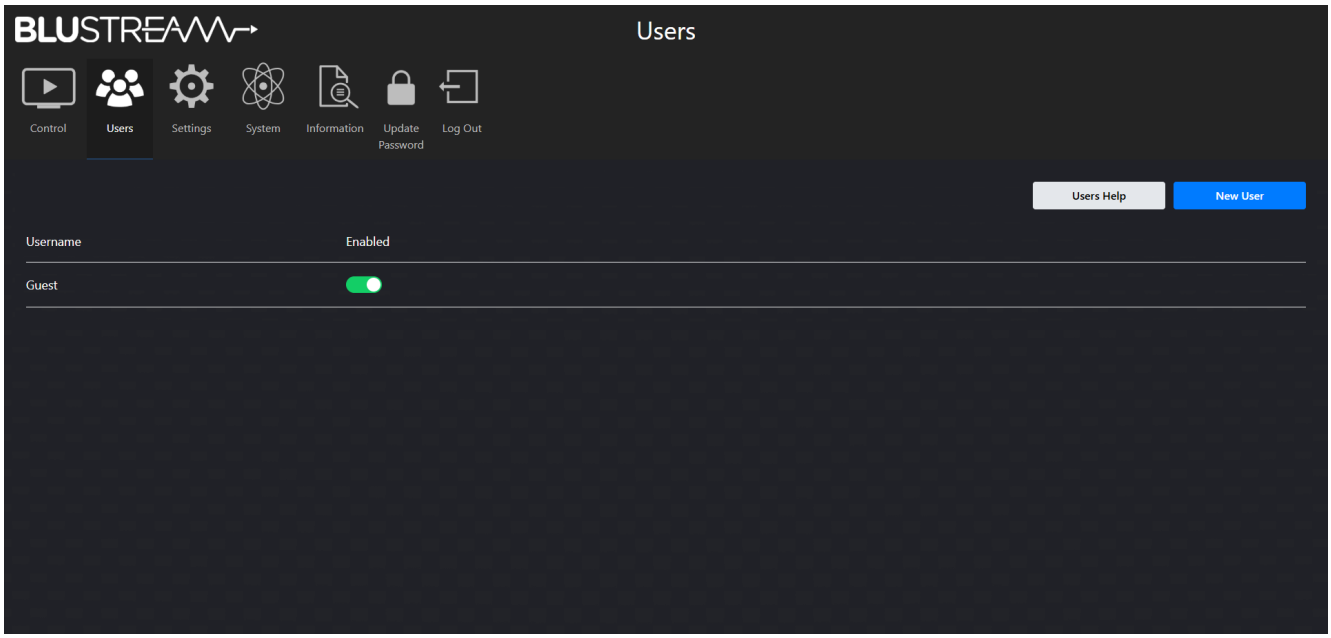
Web GUI - Users

The DA11XLRDE offers flexible user management, allowing multiple users to be configured with unique log ins and customisable access privileges. Access to various Web GUI pages can be configured per user.

Please note: A dedicated user should be set up and used after installation of the device in order to prevent non-administrator users from changing settings and potentially damaging connected equipment. The guest user should also be disabled or have permissions set to prevent unwanted access, as they do not require credentials for control of the device.

By default, there is an Administrator and Guest user.

The login details for the Administrator can be modified by selecting **Update Password** on the Web GUI navigation bar.

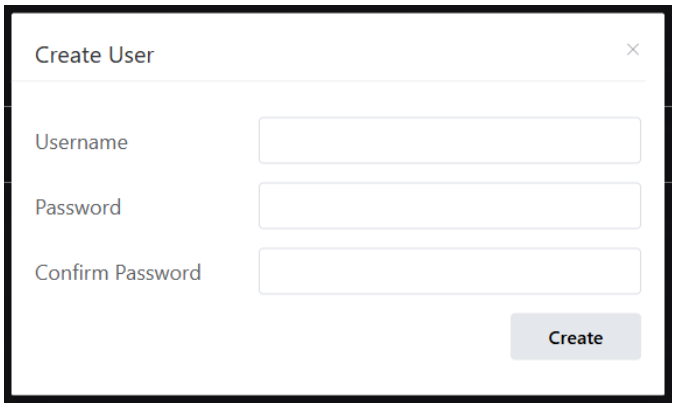


To add a new user, select **New User**.

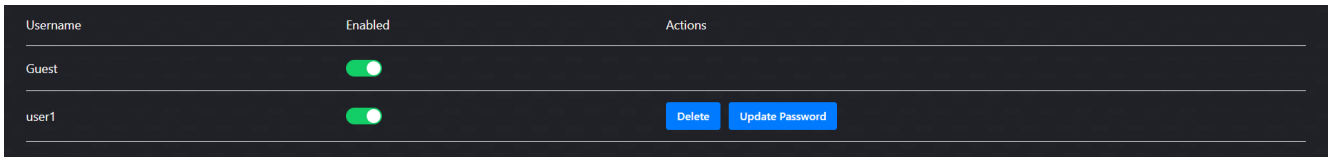
Enter a username and password.

Press **Save** to create the new user.

New User:



The new user will appear in the user list.

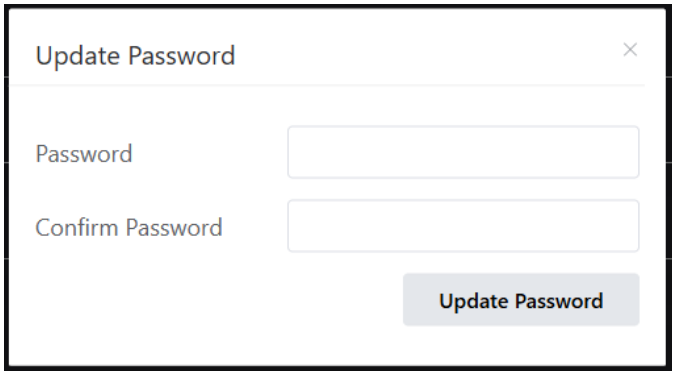


Web GUI - Users (continued)

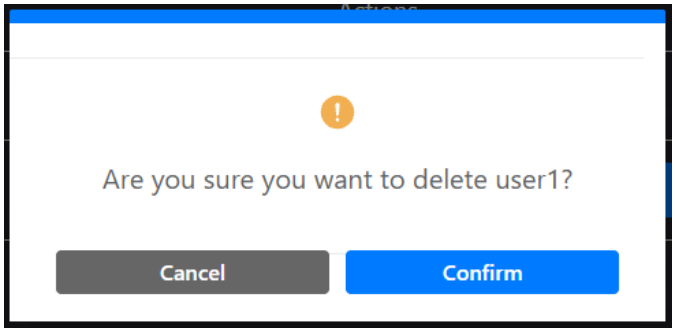
The password for a user can be updated by selecting **Update Password**.

The user can be deleted by pressing **Delete**.

Update User Password:

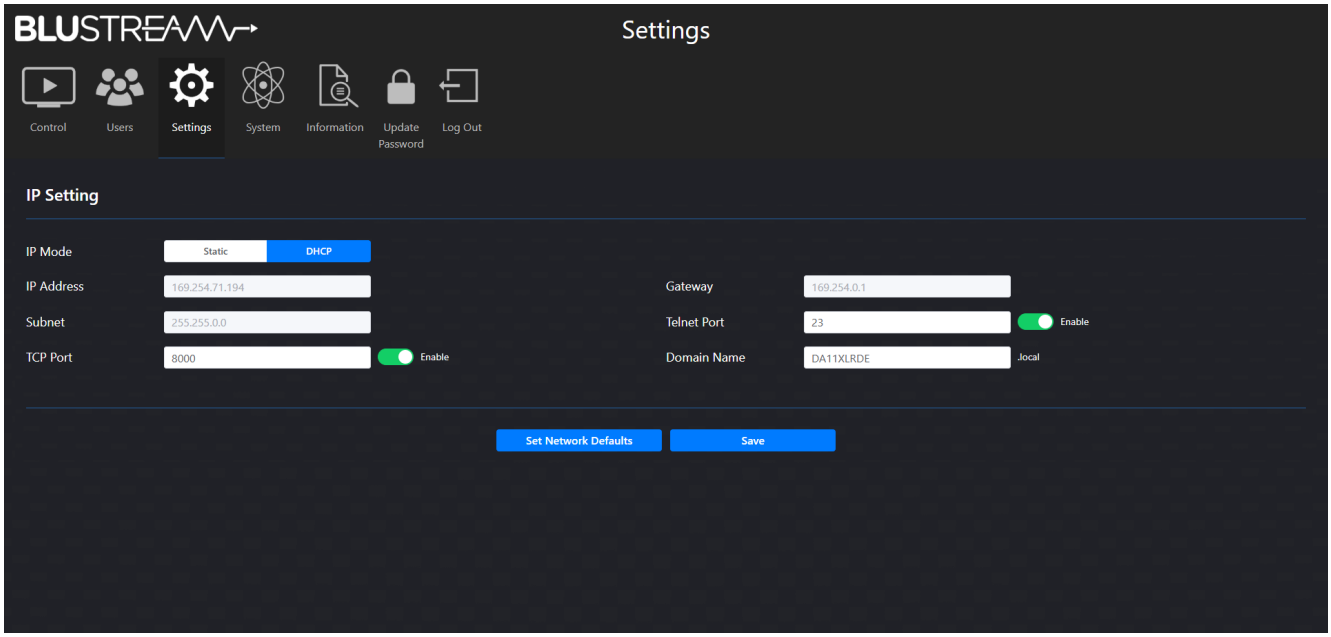


Delete User:



Web GUI - Settings

Network settings for the DA11XLRDE can be configured from this page, such as IP settings, Telnet and mDNS.



IP Settings:

IP Mode

- Static / DHCP

IP Address

- Disabled when in DHCP mode

IP Subnet

- Disabled when in DHCP mode

TCP Port

- Enable / Disable (default: 8000)

Gateway

- Disabled when in DHCP mode

Telnet Port

- Enable / Disable (default: 23)

Domain name (mDNS)

- mDNS is a protocol used in network environments to resolve hostnames to IP addresses within local networks without the need for a dedicated DNS server. The DA11XLRDE is able to be accessed via the hostname if the IP address is not known. By default this is set to **da11xlrde.local**

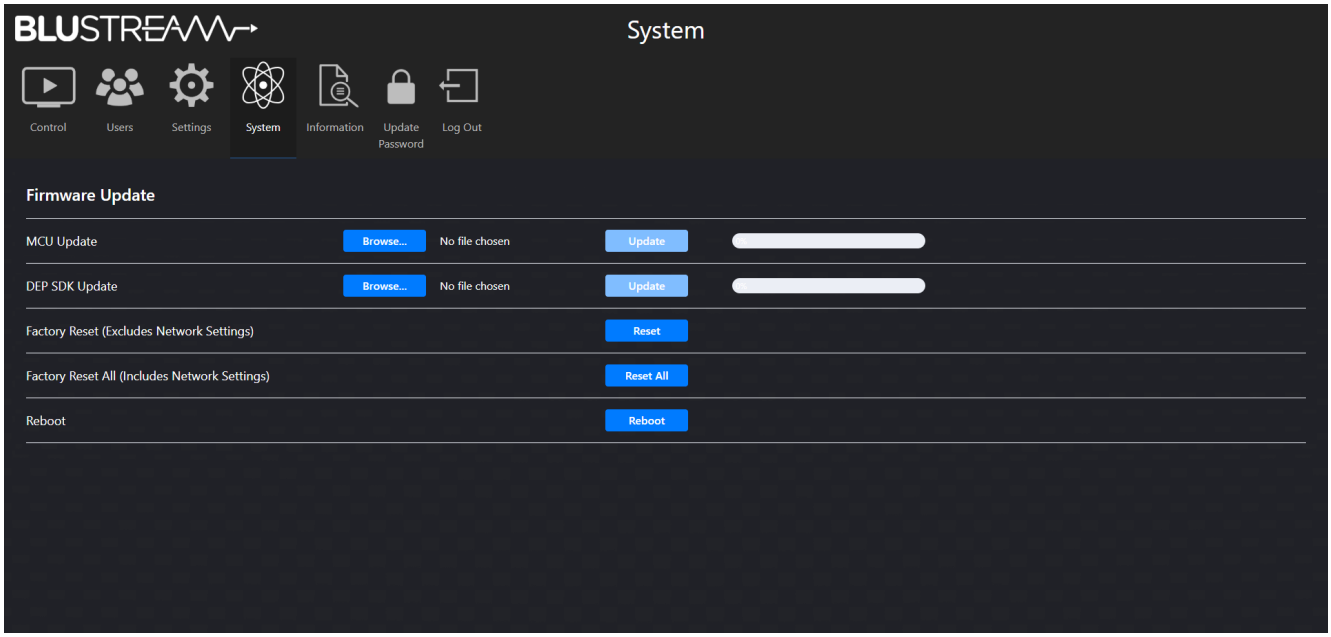
Please note: The DA11XLRDE network settings must be configured through the Web GUI. As the DA11XLRDE uses the Dante® Embedded Platform, its network settings cannot be configured using Dante® Controller, unlike Dante® devices that use Audinate chipsets.

To restore network default settings, press the **Set Network Defaults** button.

Press the **Save** button to apply any changes made.

Web GUI - System

The System page allows for firmware upgrading and factory resetting.



Firmware Update:

MCU Update

- Download the latest MCU firmware for the DA11XLRDE from the Blustream website
- Once the firmware file has been selected via the **Browse** button, press **Update**. The upgrade process will start and the progress will be shown on screen

DEP SDK Update

- Download the latest DEP firmware for the DA11XLRDE from the Blustream website
- Once the firmware file has been selected via the **Browse** button, press **Update**. The upgrade process will start and the progress will be shown on screen

Factory Reset (Excludes Network Settings)

- Erases all settings, except for network settings, and reboots the unit

Factory Reset All (Includes Network Settings)

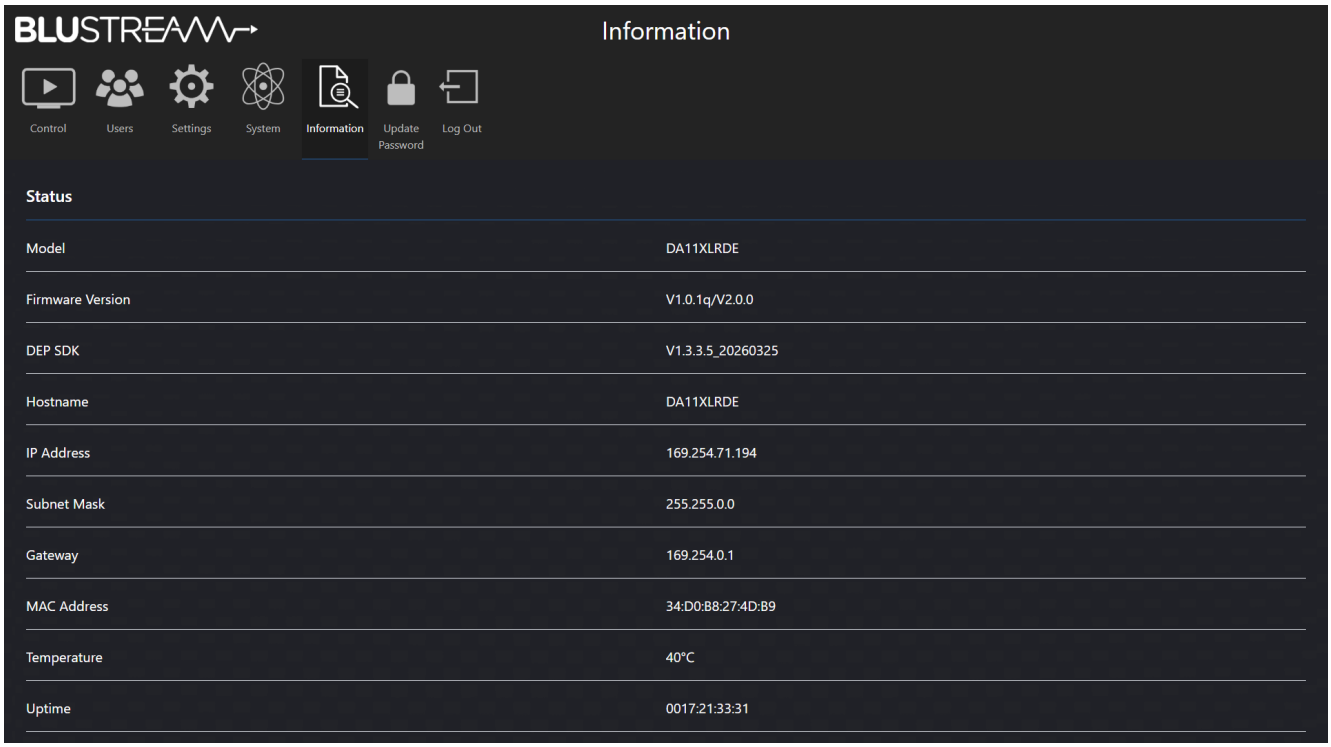
- Erases all settings and reboots the unit

Reboot

- Reboots the unit

Web GUI - Information

The Information page displays the model name, firmware version numbers and network settings of the DA11XLRDE. It also displays temperature and uptime data.



Specifications

- **Audio Input Connectors:** 1 x PoE Dante® Ethernet Connection (RJ45)
- **Audio Output Connectors:** 2 x Analogue Balanced / Unbalanced 3-Pin XLR connector
- **Casing Dimensions (W x H x D):** 84mm x 40mm x 120mm
- **Shipping Weight:** 0.4kg
- **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:** Class 0 IEEE 802.3af PoE, or 12V/1A DC 2-Pin Phoenix connector

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

Package Contents

- 1 x DA11XLRDE
- 1 x Quick Reference Card

Maintenance

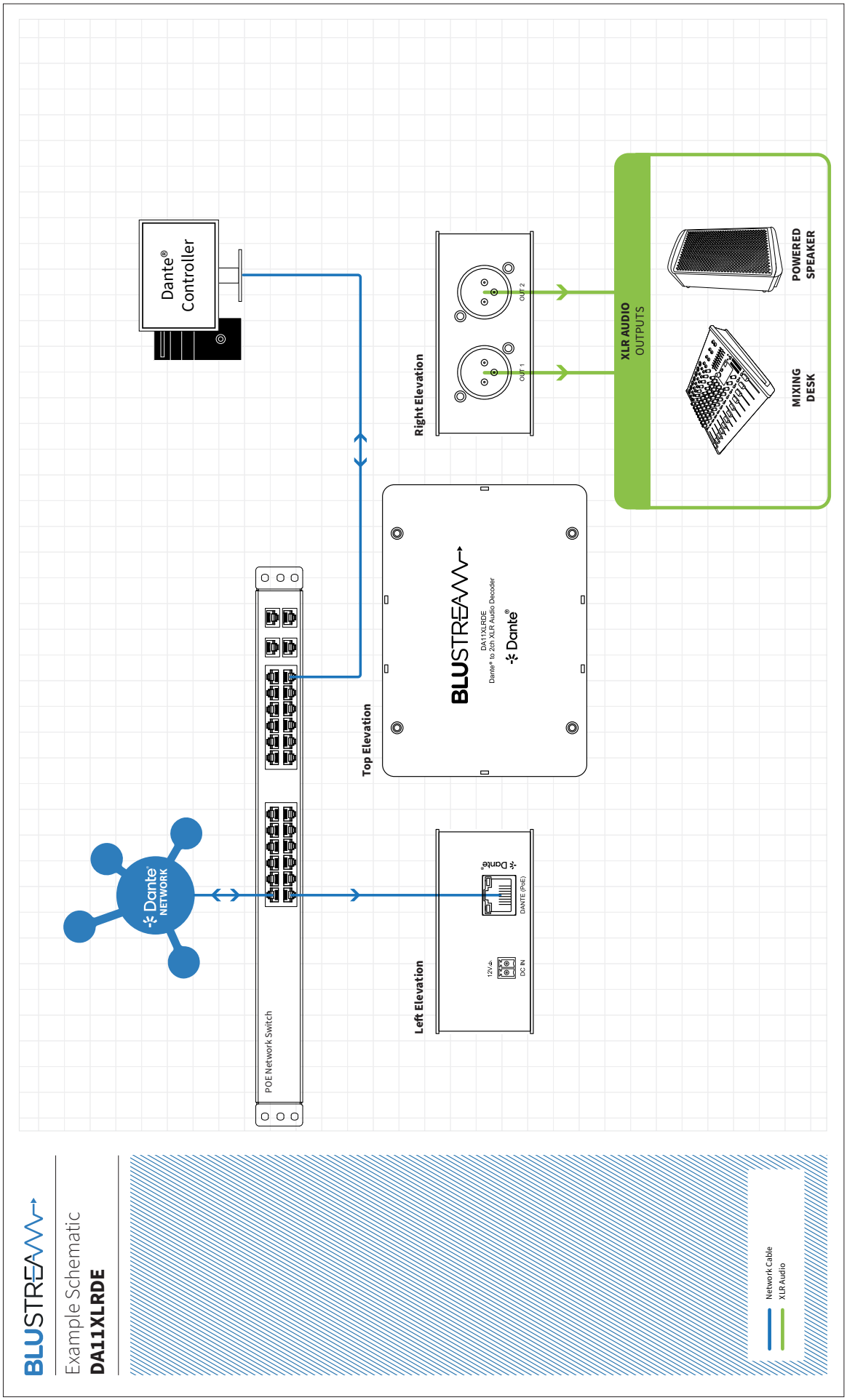
Clean this unit with a soft, dry cloth. Never use alcohol, paint thinner or benzene to clean this unit.

Connection Schematic

BLUSTREAM

Example Schematic

DA11XLRDE



Communication Protocols and Commands

The DA11XLRDE can be controlled with control commands TCP/IP (Telnet).

The following pages list all available control commands.

Commonly Used Commands:

There are several commands that are commonly used for control and testing:

STATUS	Status will give feedback on the switcher such as outputs on, type of connection, etc.
OUTxxGAINyy	Setting the gain of an output
	Example: OUT00GAIN08 (This would set the gain of all outputs to 0dBV)
OUTxxMUTEON	Muting an output
	Example: OUT01MUTEON (This would mute channel 1)
OUTxxMUTEOFF	Unmuting an output
	Example: OUT01MUTEOFF (This would unmute channel 1)

Common Mistakes:

- Spaces
  - Blustream commands do not require space between commands unless specified. There may be some applications that require spacing in order to work.
  - How the string should look is as follows: OUTON
  - How the string may look if spaces are required: OUT{Space}ON

Communication Protocols and Commands (continued)

COMMAND	ACTION
?	Print Help Information
HELP	Print Help Information
STATUS	Print System Status And Port Status
UPTIME	Print System Uptime
TEMP	Print System Temperature
RESET	Reset System Setting 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
OUT xx GAIN yy	Set Output:xx Gain To yy xx=[0...2]:0:All Channels, 1:CH1, 2:CH2 yy=[0...15]:Gain Levels yy=0:+20dBu yy=1:+18dBu yy=2:+15dBu yy=3:+12dBu yy=4:+9dBu yy=5:+6dBu yy=6:+4dBu yy=7:0dBu yy=8:0dBV yy=9:-3dBV yy=10:-6dBV yy=11:-10dBV yy=12:-14dBV yy=13:-20dBV yy=14:-24dBV yy=15:-28dBV
OUT xx MUTE ON/OFF	Set Output:xx Mute On Or Off xx=[0...2]:0:All Channels, 1:CH1, 2:CH2
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 ON/OFF	Set TCP/IP On Or Off
NET TCPPORT xxxx	Set TCP/IP Port
NET TN ON/OFF	Set Telnet On Or Off
NET TN xxxx	Set Telnet Port
NET RB	Network Reboot And Apply New Config!!!
NET DNS xxxx	Set DNS Domain Name To xxxx

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.

www.blustream.com.au
www.blustream-us.com
www.blustream.co.uk