

Dialog® UVHF Wireless Microphone

Microphone Transmitters and Charger Dock



Access Point



Dante Interface



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Notices

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SAFETY PRECAUTIONS

To ensure the best from the product, please read all instructions carefully before using the device. Save this manual for further reference.

- Unpack the equipment carefully and save the original box and packing material for possible future shipment.
- Follow basic safety precautions to reduce the risk of fire, electrical shock and injury to persons.
- Do not dismantle the housing or modify the module. It may result in electrical shock or burn.
- Using supplies or parts not meeting the products' specifications may cause damage, deterioration or malfunction.
- Refer all servicing to qualified service personnel.
- To prevent fire or shock hazard, do not expose the unit to rain, moisture or install this product near water.
- Do not put any heavy items on the extension cable in case of extrusion.
- Do not remove the housing of the device as opening or removing housing may expose you to dangerous voltage or other hazards.
- Install the device in a place with fine ventilation to avoid damage caused by overheat.
- Keep the module away from liquids.
- Spillage into the housing may result in fire, electrical shock, or equipment damage. If an object or liquid falls or spills on to the housing, unplug the module immediately.
- Do not twist or pull by force ends of the cable. It can cause malfunction.
- Do not use liquid or aerosol cleaners to clean this unit. Always unplug the power to the device before cleaning.
- Unplug the power cord when left unused for a long period of time
- Information on disposal for scrapped devices: do not burn or mix with general household waste, please treat them as normal electrical wastes.

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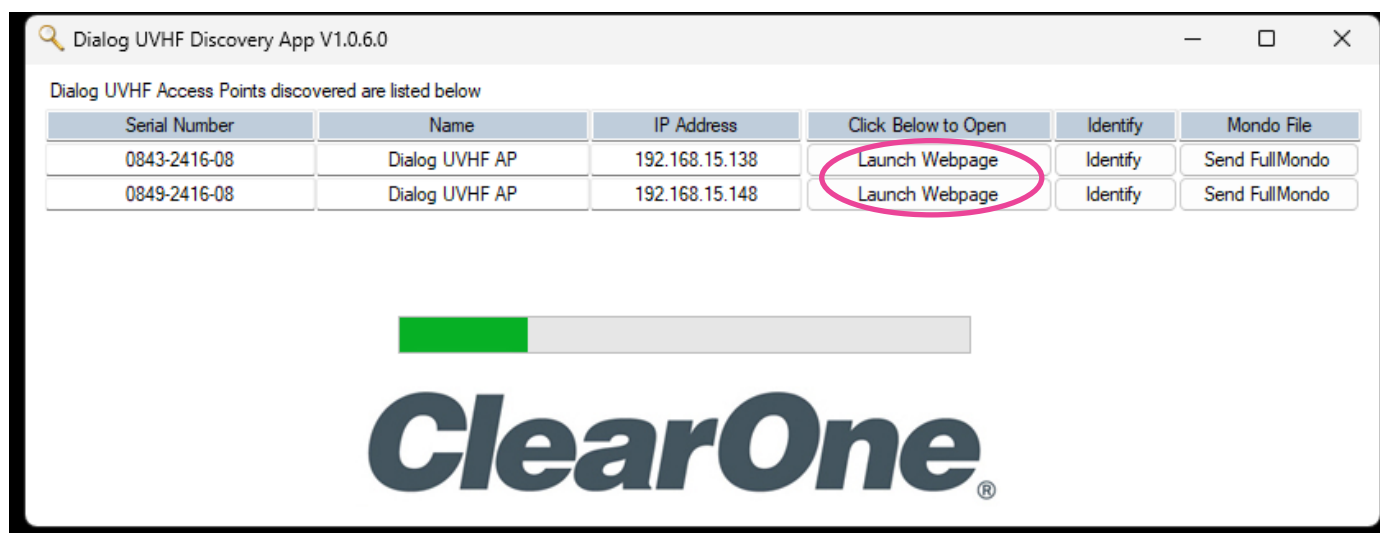
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1. Updating Firmware

To use your Dialog UVHF wireless Microphone system at the optimum range, you will need to confirm that the latest firmware is installed.

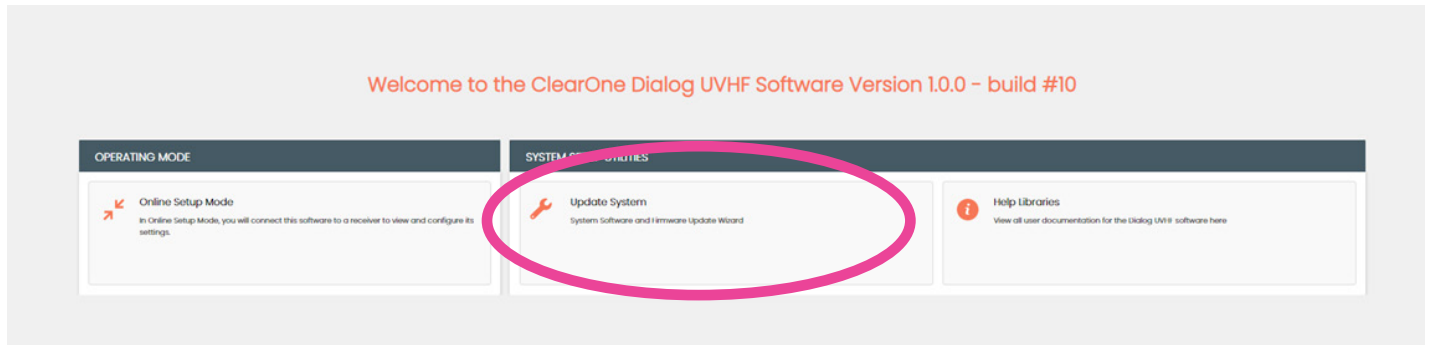
To do this simply.

1. Download, install and run the Dialog UVHF Discovery app.
<https://www.clearone.com/dialog-uvhf-wireless-microphone-discovery>
2. Left click on the “**LAUNCH WEBPAGE**” Button

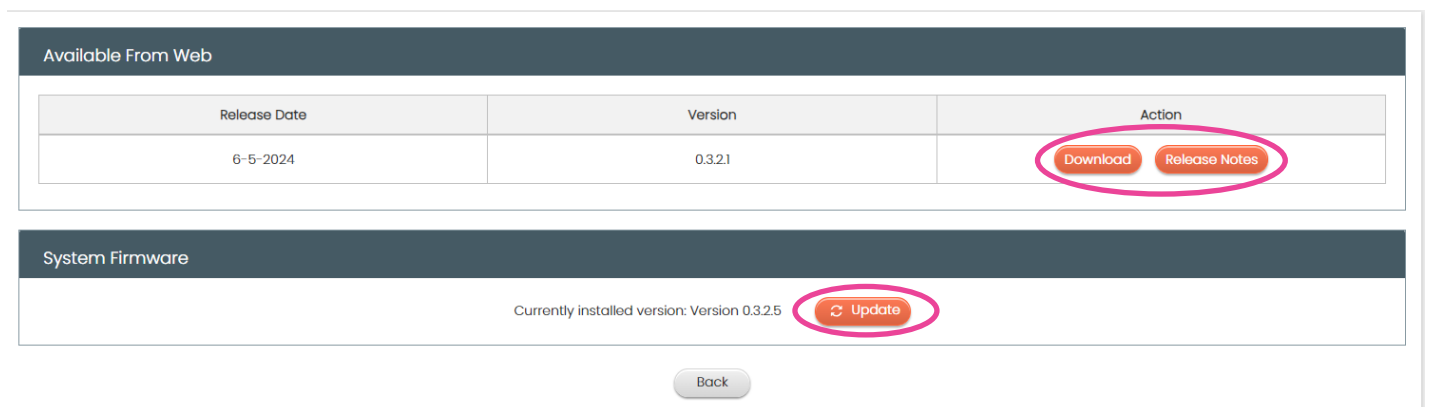


Note: THIS SECTION WILL UPDATE THE FIRMWARE ON YOUR AP ONLY. ALL OTHER FIRMWARE UPDATES (TRANSMITTERS, DANTE INTERFACE(S) AND DOCK(S)) WILL BE AUTOMATICALLY UPDATED VIA THE NETWORK.

3. Left Click on the **UPDATE SYSTEM** section of the home page.

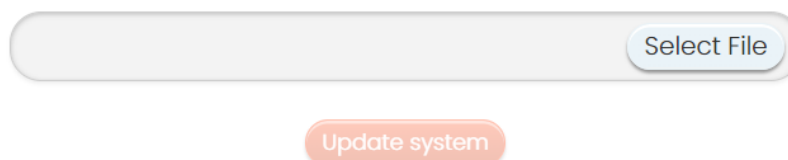


4. You will need to **DOWNLOAD** the current firmware to install it on your AP. To do this, left click on the **DOWNLOAD** button. This will download the file on your computer. After the download completes, left click on the **UPDATE** button. This will install the current firmware on your AP, Docks, and transmitters. The AP and Dock will show LED's as flashing RGB when updating. After update the device will restart.



Update System Firmware

Select the firmware file from your computer



Update Process Explained

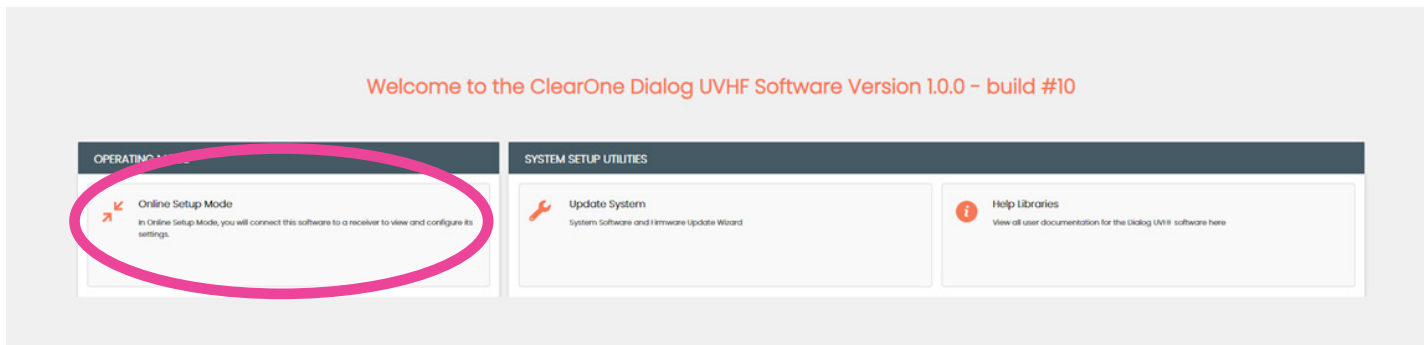
1. The mondo file will be sent to the Access Point. The AP's LEDs will flash blue during this process. ~2 minutes
2. The AP will verify the mondo file and then reboot and update itself. ~1 minute
3. When the AP reboots, it will search for the associated smart dock and Dante interface and update them if necessary. The AP and dock/DI leds will flash red-green-blue during this process. ~1 minute for each device
4. After the dock updates, it will reboot and update its transmitters if necessary. The dock LEDs will flash blue during this process. ~1 minute per transmitter

Please do not turn off power during this process. Do not remove transmitters from the dock during programming.

When the update process is complete, the LEDs on the AP, dock and Dante interface will be green.

 **Note:** To update Dante firmware on the Access Point and Dante Interface please use Audinate's Dante Controller software <https://www.getdante.com/products/software-essentials/dante-controller/>

5. Connect to the AP by left clicking on the **ONLINE SETUP MODE** section of the home page.



When the **ACCESS POINT** Homepage loads, it will look like this.

The screenshot shows the 'ACCESS POINT 1' configuration interface. At the top, system status is 'Online', connection is '192.168.15.148', and alert is 'No Alert'. Below this is a table with 8 columns representing slots (Slot 1 to Slot 8). Each slot has a 'Press to Edit' button. The table rows include Slot Name, RF Channel, Mic Status, Alert, Battery Life Remaining, Mic Audio Preamp, Low Cut, Transmit RF Power, Power Switch Mode, Mute Button Mode, Mute Mode, Tablemic Mode, Sleep Mode, Model, and RF Diversity Strength and Audio Level Meter. The RF Diversity Strength section shows bar graphs for RF and Audio levels for each slot, with a scale from 0 to -72 dB.

2. Ethernet Settings

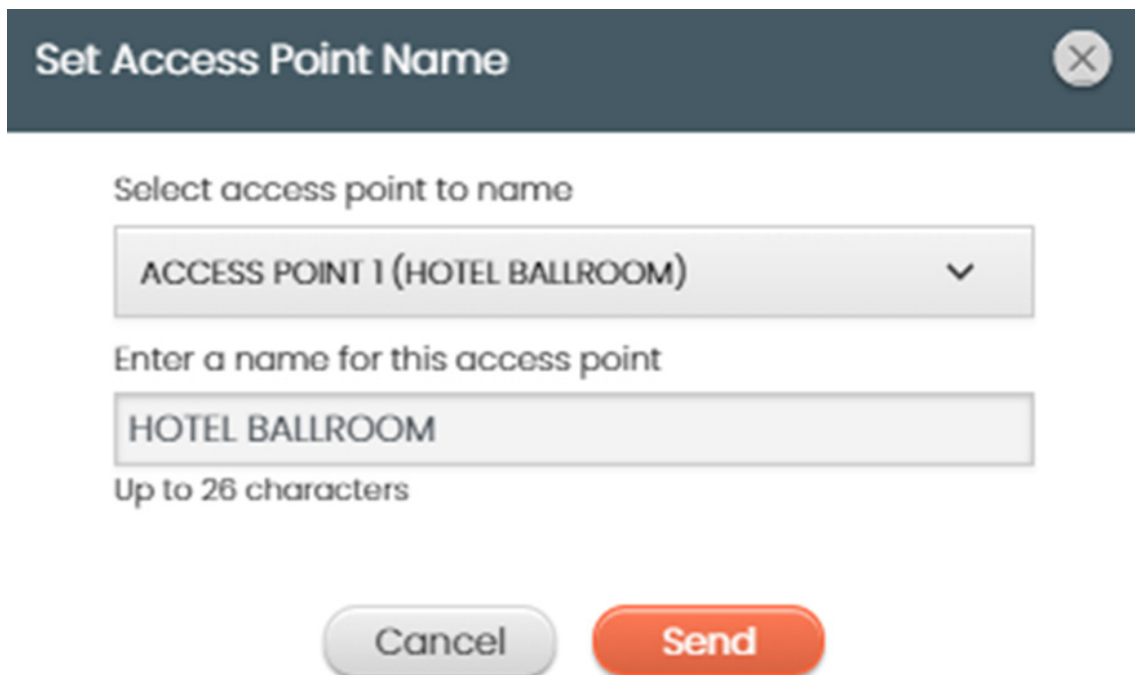
The Dialog **UVHF** system arrives in **DHCP** out of the box.

If you want to change this to a **STATIC** IP address, simply left click on **SETTINGS** then **ETHERNET SETTINGS**. Click on the **MANUALLY ASSIGN IP ADDRESS** bubble and fill in the info needed. After complete, left click on the **APPLY** Button. You can now assign Static or DHCP to the **SMART DOCK** as well as the **DANTE INTERFACE**.

The screenshot shows the 'Ethernet Settings' dialog box. It has a title bar with a question mark and a close button. The main content area is titled 'Access Point Ethernet Settings' and shows 'Mac Address: 0.90.79.15.1102'. There are two radio buttons: 'Manually assign IP address' (which is selected) and 'DHCP Enable'. Under 'Manually assign IP address', there are three input fields: 'IP Address' with the value '192 . 168 . 15 . 117', 'Subnet mask' with '255 . 255 . 255 . 0', and 'Gateway' with '192 . 168 . 15 . 1'. At the bottom, there are 'Cancel' and 'Apply' buttons.

3. Set Access Point Name

If you would like to name your access point you can do so by Left clicking on the **SETTINGS** and dropping down to **Set Access Point Name**. Simply Type the name and left click on the **SEND** button. Here is an example:



Set Access Point Name

Select access point to name

ACCESS POINT 1 (HOTEL BALLROOM)

Enter a name for this access point

HOTEL BALLROOM

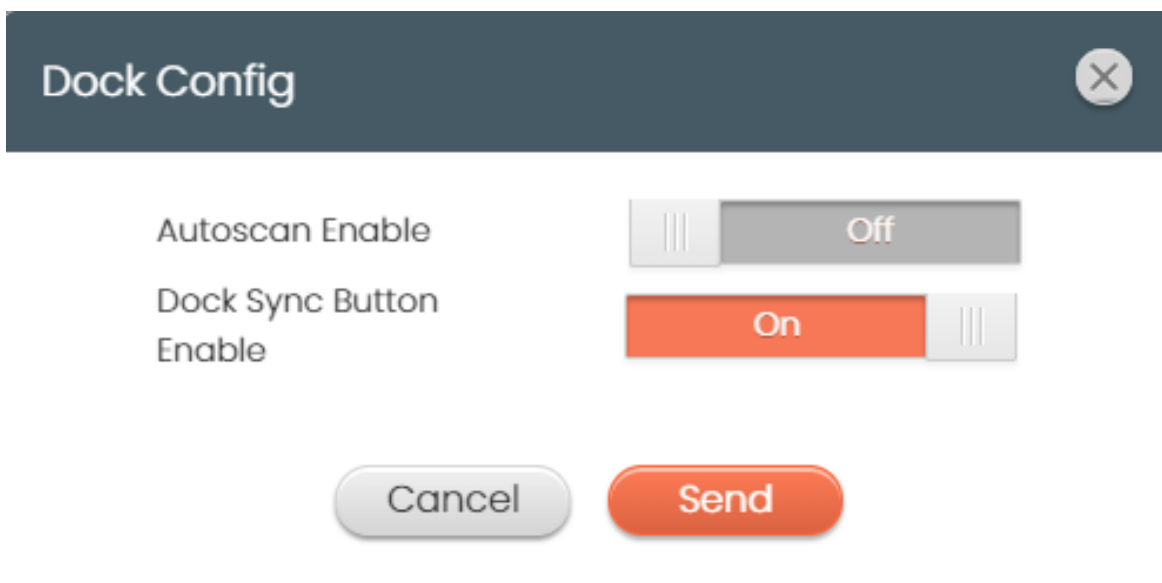
Up to 26 characters

Cancel Send

4. Dock Config

The Autoscan Enable switch enables an RF scan and automatic channel assignment when the sync button is pressed. If disabled, no scan is performed and the channel assignments are not changed.

The Dock Sync Button Enable controls whether the sync button on the dock is enabled or not.



Dock Config

Autoscan Enable Off

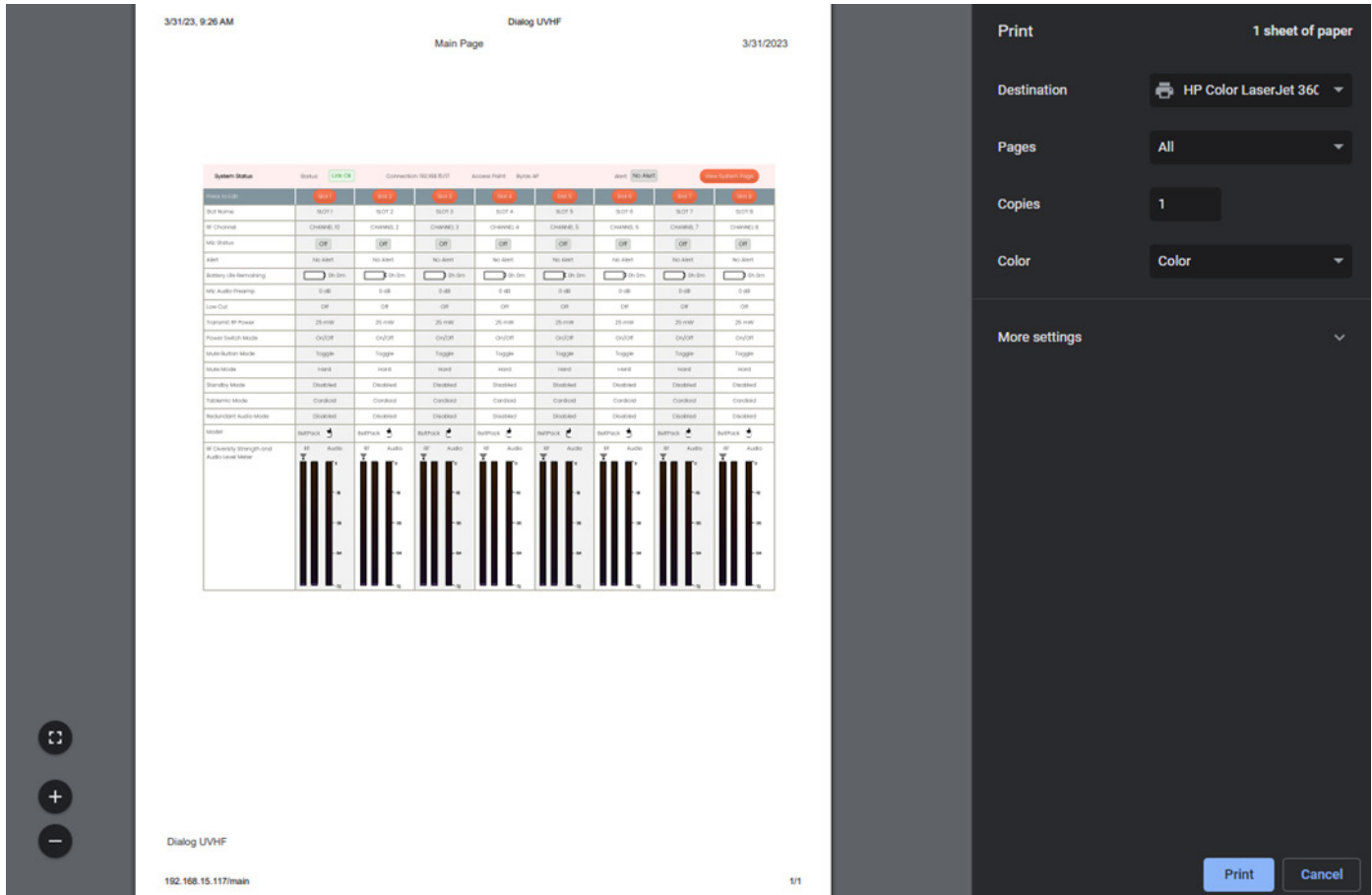
Dock Sync Button Enable On

Cancel Send

5. Print Current Setting

If you would like to print the current setting to record and save your home page settings for later you can left click on the **SETTINGS** and drop down to **PRINT CURRENT SETTINGS**. This will allow you to choose a Printer and Save by left clicking on the **PRINT** button.

 **Note:** This can be very useful in PDF form to send to others for future use. .



The screenshot shows the 'Main Page' of the Dialog UVHF interface. At the top, it displays the date '3/31/23, 9:26 AM', the title 'Dialog UVHF', and the page number '3/31/2023'. Below this is a 'System Status' table with columns for Slot 1 through Slot 8. The table includes rows for Slot Name, RF Channel, RF Status, Alert, Battery Life Remaining, RF Audio Preamp, Low Cut, Topguard RF Power, Power Switch Mode, Mute Button Mode, Mute Mode, Standby Mode, Talkback Mode, and Redundant Audio Mode. At the bottom of the table, there are 'RF' and 'Audio' indicators for each slot, along with a 'RF Strength and Audio Level Meter' section showing signal strength bars.

Overlaid on the right side of the screenshot is a 'Print' dialog box. It shows '1 sheet of paper' and 'Destination: HP Color LaserJet 36C'. Other settings include 'Pages: All', 'Copies: 1', and 'Color: Color'. There is a 'More settings' dropdown menu and 'Print' and 'Cancel' buttons at the bottom.

6. View System Page

Clicking the **VIEW SYSTEM PAGE** button will bring up this screen.



7. View Dante Interface

You will need to Assign a Dante Interface and Smart Dock to the AP by using the Appropriate Dropdown box.

Clicking the **VIEW DANTE INTERFACE** button will bring up the Dante Interface page.

7a. GPIO

Here, you can assign GPIO MUTE assignments (INPUT/OUTPUT). The GPIO STATUS mirrors the Dante Interface hardware. If you click on the spot you want to assign, an orange dot will show on the assigned slots input and or output. Simply click the **APPLY** button when your configuration is complete. You will need to hardwire the Dante Interface to reflect the assignments given.

The screenshot shows the 'Dante Interface' configuration window. At the top, there is a title bar 'Dante Interface' with a help icon and a close button. Below this is a 'GPIO Status' section. It features a table with 8 columns labeled 'Slot 1' through 'Slot 8'. Each slot has two rows of circular indicators: the top row is labeled 'GPIO Mute In' and the bottom row is labeled 'GPIO Mute Out'. In the 'GPIO Mute In' row, all 8 slots have an orange dot, indicating they are assigned as input. In the 'GPIO Mute Out' row, all 8 slots have a grey dot, indicating they are assigned as output. Below the table, there are two output options: 'USB Digital Audio Output' and 'Euroblock And 1/4" TRS Analog Output'. At the bottom of the window, there are 'Cancel' and 'Apply' buttons.

Slot	GPIO Mute In	GPIO Mute Out
1	Assigned (Orange Dot)	Not Assigned (Grey Dot)
2	Assigned (Orange Dot)	Not Assigned (Grey Dot)
3	Assigned (Orange Dot)	Not Assigned (Grey Dot)
4	Assigned (Orange Dot)	Not Assigned (Grey Dot)
5	Assigned (Orange Dot)	Not Assigned (Grey Dot)
6	Assigned (Orange Dot)	Not Assigned (Grey Dot)
7	Assigned (Orange Dot)	Not Assigned (Grey Dot)
8	Assigned (Orange Dot)	Not Assigned (Grey Dot)

Output Options:
USB Digital Audio Output
Euroblock And 1/4" TRS Analog Output

Buttons: Cancel, Apply

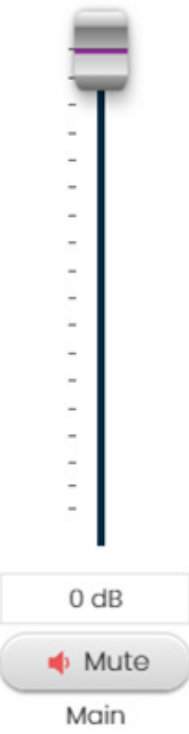
7b. USB Audio

Clicking the **USB Digital Audio Output** will bring up the USB Audio level (from the Dante Interface) The slider allows you to change the USB Audio level and the MUTE button allows you to mute the channel. After you have adjusted, you will need to click the **APPLY** button.

Dante Interface ?

GPIO Status

USB Digital Audio Output



0 dB

Mute

Main

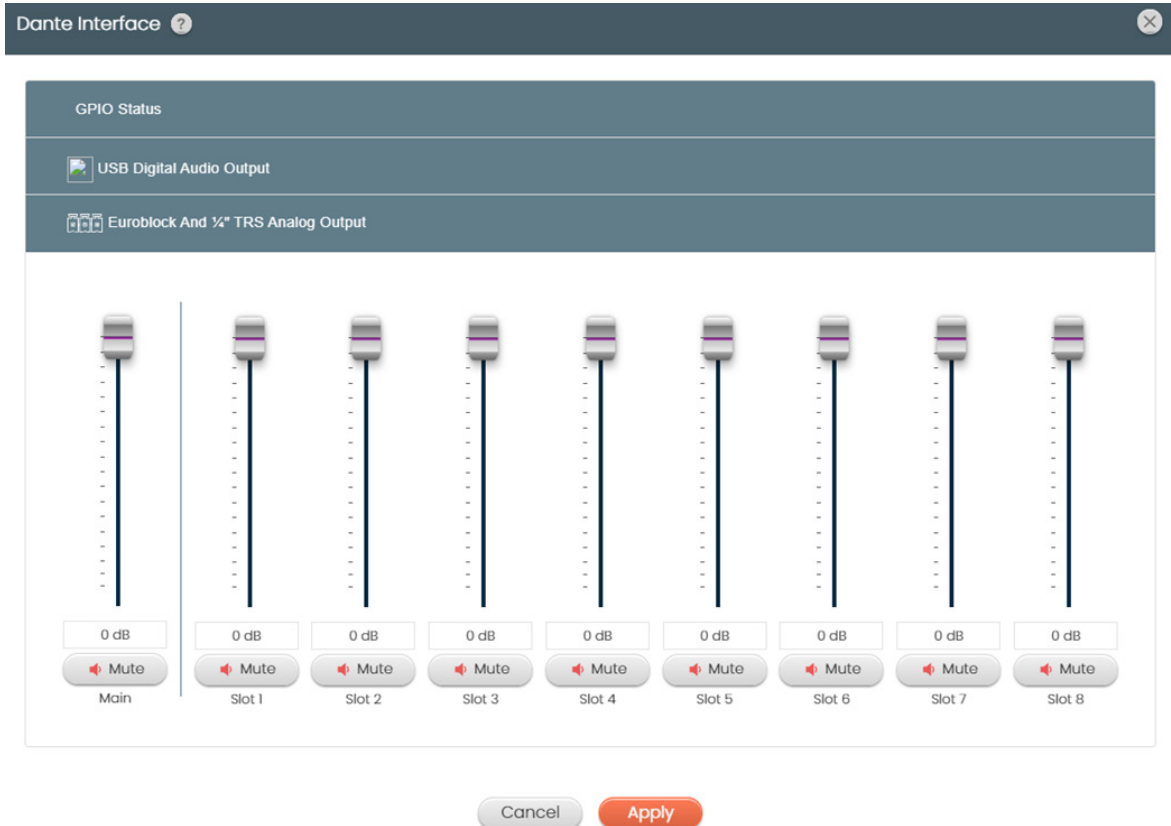
Euroblock And 1/4" TRS Analog Output

Cancel Apply

7c. Euro block And 1/4 " TRS Analog Output

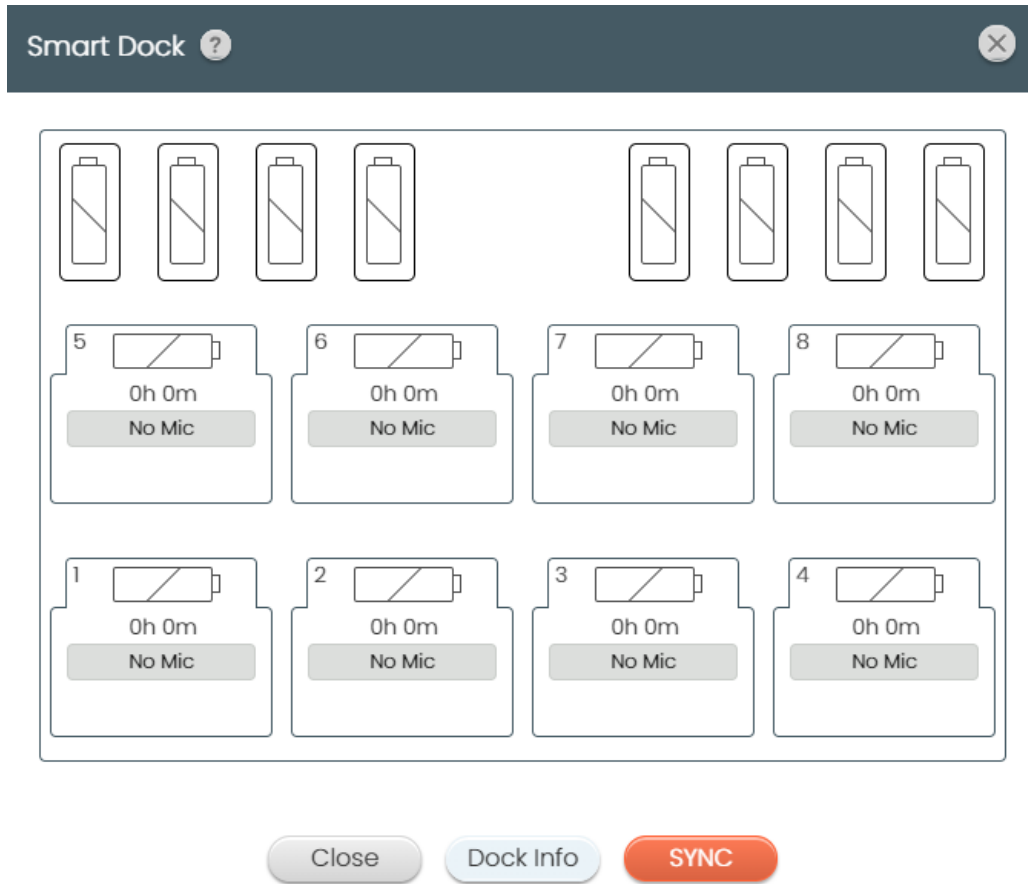
Here you can adjust the (8) analog outputs and or the TRS Analog MIX out (on the Dante Interface). This is adjusted and applied the same way the USB audio is configured.

Note: The Mix out and the Analog Outs share values, but CAN be used at the same time.

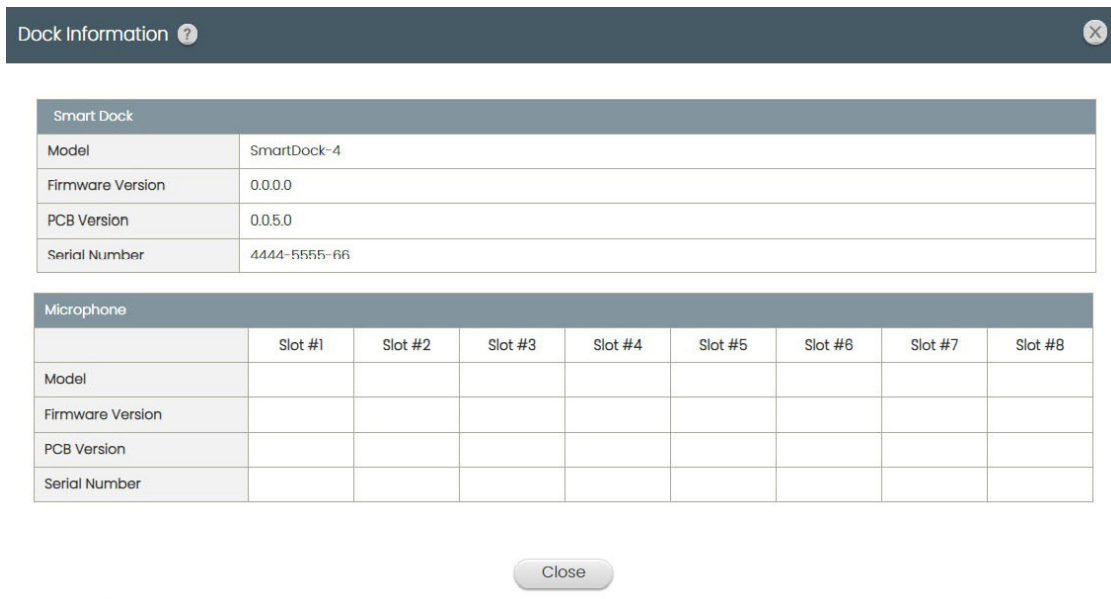


8. View Smart Dock

To View your SMART DOCK, click on the **VIEW SMART DOCK** Button. Here you can view your transmitters charging status, Transmitter type and Sync Status. There are also indicators for the spare batteries at the top of the screen.



You can SYNC your transmitters here also, by clicking the **SYNC** button. Clicking the Dock Info will bring up the **DOCK INFORMATION** screen. Here you can see all the Smart Dock info (Model, Firmware Version, PCB Version and Serial number), as well as the Transmitter info (Model, FW Version, PCB Version and Serial Number).



9. RF Scan

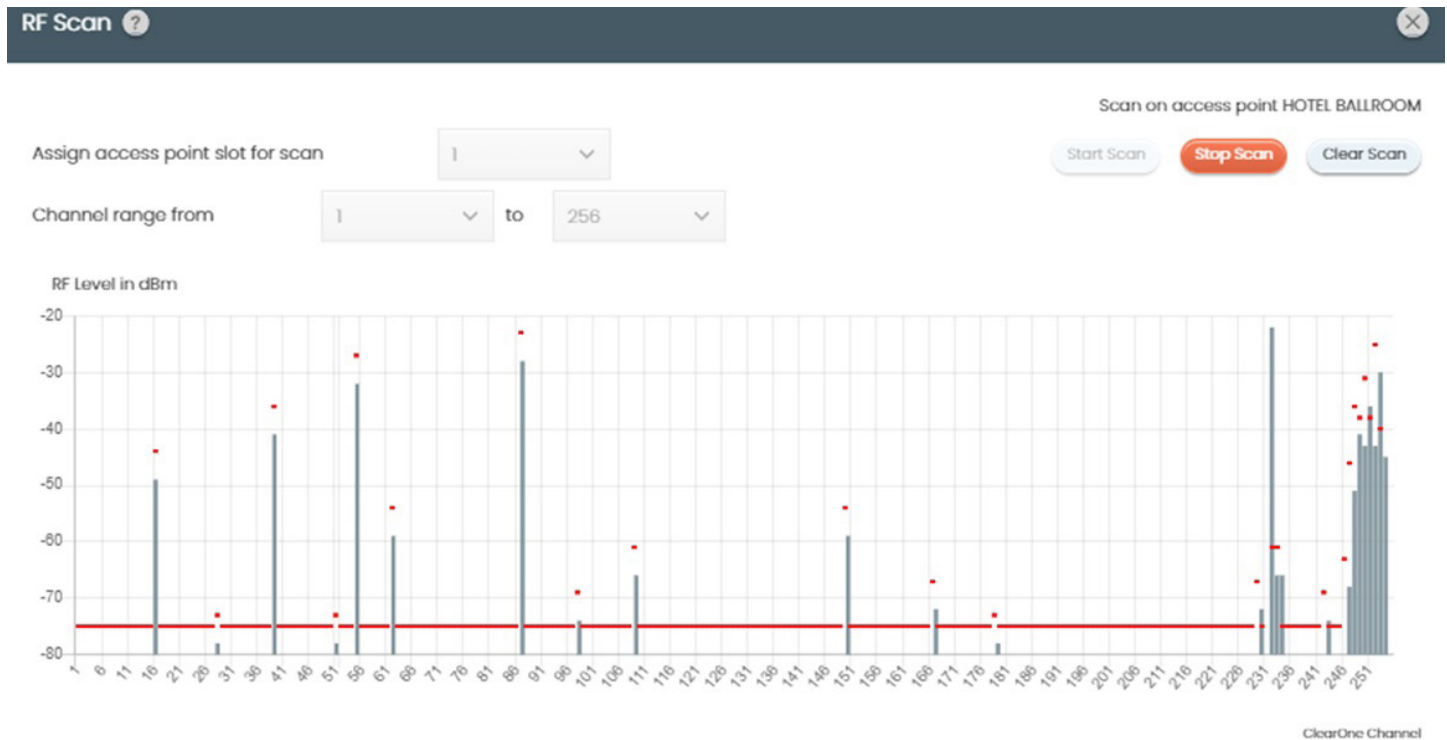
The RF scan function is imperative when using the Dialog UVHF. ClearOne recommends running an RF scan before assigning microphone (transmitter) RF channels. To run the RF scan, Left click on the **RF Scan** button. The RF Scan page contains all the resources you will need to record and assign reliable RF channels to your transmitters.

You can monitor all 8 radio slots on the AP by clicking the Dropdown for **Assign access point slot for scan**.

There is a Channel range feature that allows you to monitor specific RF channel frequencies. There are (256) possible frequencies to choose from. Simply use the drop-down boxes and choose the channels you wish to monitor.

When you have set the desired parameters, left click on the **Start Scan Button**. This will start your RF scan process.

You can now use the **AUTO ASSIGN** radio button to engage the auto Assign function, to do this Run and RF scan as per usual then click the Auto Assign Button. The best channels will be selected.




10. Backup Channels

You can assign up to (2) backup channels (0-2) per Slot. Using the Backup Channels Dropdown box, you can choose the number of back up channels desired. Backup channels are used to give you alternate channel frequencies in case of an issue with the “Primary Channel”. These are ideal for Mission critical audio situations.

Here is the page that describes the Scan and some of its applications. This page explains why an RF scan is important to ensure reliable and optimal performance of the Dialog UVHF System.

Backup Channels Auto Assign Manual Assign

Slot	Color	Primary Channel		Backup Channel 1		Backup Channel 2	
1		CH 1	470.450	CH 1	470.450	CH 1	470.450
2		CH 3	471.350	CH 5	472.250	CH 7	473.150
3		CH 5	472.250	CH 9	474.050	CH 13	475.850
4		CH 7	473.150	CH 13	475.850	CH 19	478.550
5		CH 9	474.050	CH 17	477.650	CH 25	481.250
6		CH 11	474.950	CH 21	479.450	CH 31	483.950
7		CH 13	475.850	CH 25	481.250	CH 37	486.650
8		CH 15	476.750	CH 29	483.050	CH 43	489.350

11. Editing

EDIT SLOT ?
✕

Slot Name	<input type="text" value="SLOT 1"/>	Power Switch Mode	<input style="background-color: #eee; border: none; width: 100%;" type="button" value="On/Mute"/>
RF Channel # (*)	<input style="background-color: #eee; border: none; width: 100%;" type="button" value="3"/>	Low Cut	<input style="background-color: #eee; border: none; width: 100%;" type="button" value="Off"/>
Mic Audio Preamp	<input style="background-color: #eee; border: none; width: 100%;" type="button" value="0 dB"/>	Mute Mode	<input style="background-color: #eee; border: none; width: 100%;" type="button" value="Hard Mute"/>
Transmit RF Power	<input style="background-color: #eee; border: none; width: 100%;" type="button" value="10 mW"/>	Tabletop Mic Mode	<input style="background-color: #eee; border: none; width: 100%;" type="button" value="Cardioid"/>
		Sleep Mode	<input style="background-color: #f44; border: none; width: 100%;" type="button" value="Enabled"/>
		Sleep Timeout	<input style="background-color: #eee; border: none; width: 100%;" type="button" value="120"/>
			<div style="background-color: #eee; border: none; width: 100%; height: 20px; margin-bottom: 2px;"></div> <div style="background-color: #eee; border: none; width: 100%; height: 20px; margin-bottom: 2px;"></div> <div style="background-color: #eee; border: none; width: 100%; height: 20px; margin-bottom: 2px;"></div> <div style="background-color: #eee; border: none; width: 100%; height: 20px;"></div>
Microphone Type	<input style="background-color: #eee; border: none; width: 100%;" type="button" value="BeltPack"/>	Button Mode	

Apply above setting to slots
 All slots
 1
 2
 3
 4
 5
 6
 7
 8

Edit each slot by clicking on the edit button for each slot. You can choose the frequency by clicking on the RF channel dropdown box. You can edit other parameters here, also.

Slot Name: You can name your channel slot here.

RF Channel: Choose from (1- 350) for frequency channel. You can also type in the CH number and press ENTER. turning OFF a Slot channel is also now available.

Mic Audio Preamp: Pre gain for the transmitter. Choose from (+30 to -20 dB)

Transmit RF Power: Choose from (1mW, 10mW)

Microphone type: (When the transmitter is synced, the type will show as (Bodypack, Handheld, Podium or Boundary).

Power Switch Mode: (Choose from On/Off, On/Mute or On/On)

Low Cut: Choose from (Off or 75Hz)

Mute Mode: Choose from (Hard Mute or Logic Mute)

Tabletop Mic Mode: Choose from (Cardioid or Omni)

Button Mode: Choose from (Toggle, Push to Talk or Push to Mute)

Sleep Mode: No more unwanted open mics, use this feature to put the Handheld or Beltpack in sleep mode (programmable from 5-120 seconds). Pick up the mic and audio returns!

You can apply any of these settings by choosing which slots you would like to apply them to (1-8) OR ALL SLOTS. Simply click the **APPLY** Button.

12. Alert

- To set up automatic system monitoring alerts, select [Alert]. An alert can either be shown on the GUI screen, or it can be emailed to one or more email lists. The Alerts screen lets you select which conditions trigger an alert.

Alert ?
×

Use the dialog to set up alerts. Use the checkboxes to select where the Alert information will be displayed and set when Alert condition is met.

Alert Condition	Alert Method
Low Microphone Battery	<input type="checkbox"/> Email 1 <input type="checkbox"/> Email 2 <input type="checkbox"/> Email 3 <input type="checkbox"/> GUI Screen
Low RF Signal	<input type="checkbox"/> Email 1 <input type="checkbox"/> Email 2 <input type="checkbox"/> Email 3 <input type="checkbox"/> GUI Screen
Microphone Components Failures	<input type="checkbox"/> Email 1 <input type="checkbox"/> Email 2 <input type="checkbox"/> Email 3 <input type="checkbox"/> GUI Screen
AP Component Failure	<input type="checkbox"/> Email 1 <input type="checkbox"/> Email 2 <input type="checkbox"/> Email 3 <input type="checkbox"/> GUI Screen
Firmware Software Failure	<input type="checkbox"/> Email 1 <input type="checkbox"/> Email 2 <input type="checkbox"/> Email 3 <input type="checkbox"/> GUI Screen
Loss Mic Sync	<input type="checkbox"/> Email 1 <input type="checkbox"/> Email 2 <input type="checkbox"/> Email 3 <input type="checkbox"/> GUI Screen

Cancel
Set Up Email Address And Server
Apply

2. Email servers and lists are set up by clicking SETUP EMAIL ADDRESS AND SERVER. Enter or update new details, test the configuration of your new details, and then select “APPLY”.

Email Alert Setup ?



Enter email addresses separated by semicolon

Sender Email

Email Address List 1

Email Address List 2

Email Address List 3

Email Server Name

Email Username

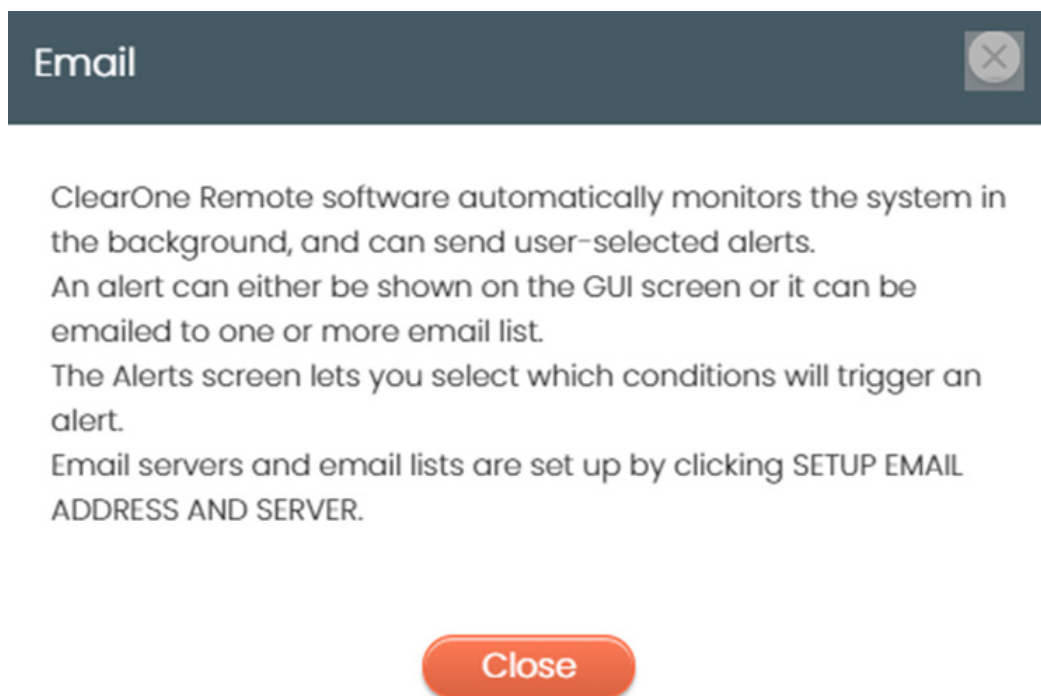
Email Password

Authentication Option



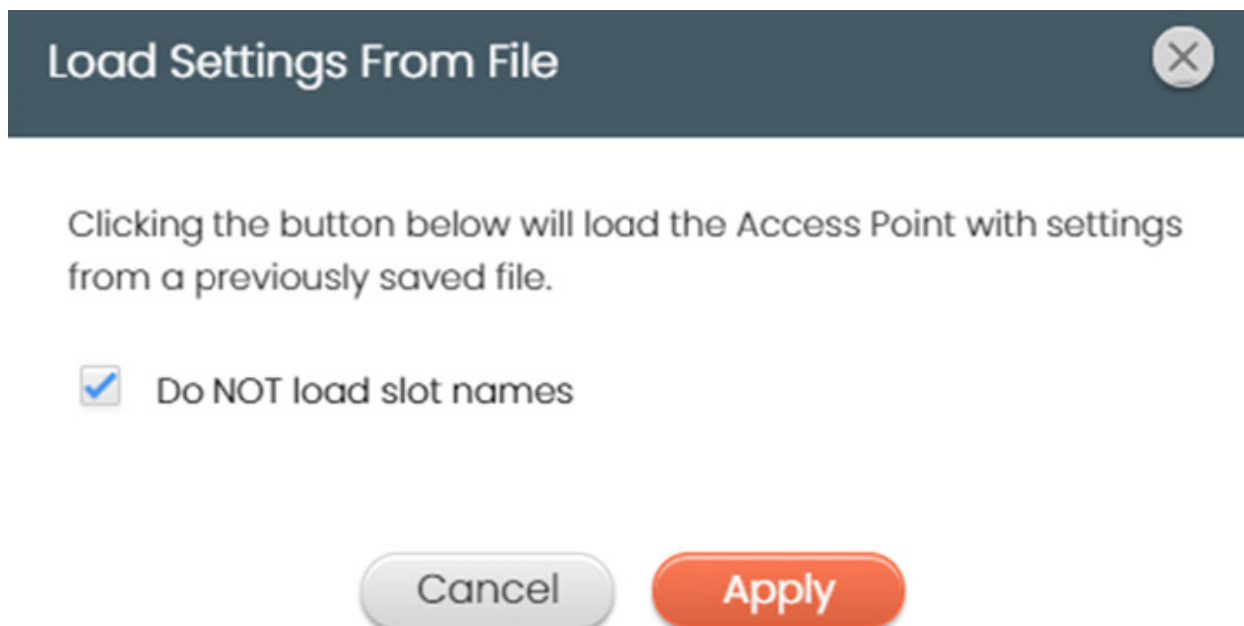
Port

3. For greater detail on the Email Alerts Setup function and its application, select the question mark icon in the window. Another window displays with the details.



13. File

Use this section to Load or save your files.



Save Settings To File



Clicking the button SAVE will save the current settings to a file on your hard drive with the name:

Cancel

Save

14. Exposure and Compliance

RF Exposure Information

The transmitters have been tested and have been shown to be compliant for localized specific absorption rate (SAR) for uncontrolled environment/general exposure limits specified in ANSI/IEEE Std. C95.1-1992 and have been tested in accordance with the measurement procedures specified in IEEE 1528-2003 and IEC 62209-2.

RF Compliance Information

The transmitters have been tested and have been shown to meet CE spectral bandwidth requirements at 1 mW and 10 mW output power.

This equipment may be capable of operating at some RF power levels not authorized in your region. Please contact your national authority to obtain information on RF power levels for wireless microphone products in your region.

This product meets the Essential Requirements of all relevant European directives and is eligible for CE marking.

Available frequencies:

UHF: 470.45-607.7MHz

VHF: 177.6-215.4MHz

Check with your local radio authorities for allowable frequencies and maximum transmit power.

Certified under FCC Part 74 and FCC Part 15.

Certified by IC in Canada under RSS-123, RSS-102 and RSS-210.

DIALOG UVHF Access Point

FCC ID: FBI-DIALOGUVHFAP

IC: 1970A-DIALOGUVHFAP

DIALOG UVHF Bodypack

FCC ID: FBI-DIALOGUVHFBP

IC: 1970A-DIALOGUVHFBP

DIALOG UVHF Handheld

FCC ID: FBI-DIALOGUVHFHH

IC: 1970A-DIALOGUVHFHH

DIALOG UVHF Podium

FCC ID: FBI-DIALOGUVHFDP

IC: 1970A-DIALOGUVHFDP

DIALOG UVHF Boundary

FCC ID: FBI-DIALOGUVHFBD

IC: 1970A-DIALOGUVHFBD

Modifications (FCC 15.21) Warning:

Changes or modifications to this equipment not expressly approved by ClearOne may void the user's authority to operate this equipment according to your local radio regulatory authorities.

ClearOne Wireless Receivers, Transmitters, and, Antennas are intended for indoor use only.

Applies to Bodypack 860-6305-001:

Under Industry Canada regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada.

To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotopically radiated power (e.i.r.p.) is not more than that necessary for successful communication.

This radio transmitter (860-6305-001) has been approved by Industry Canada to operate with the antenna types listed below with the maximum permissible gain and required antenna impedance for each antenna type indicated. Antenna types not included in this list, having a gain greater than the maximum gain indicated for that type, are strictly prohibited for use with this device.

Monopole antenna, 0dbi gain, 50 ohm impedance.

Le présent émetteur radio (860-6305-001) a été approuvé par Industrie Canada pour fonctionner avec les types d'antenne énumérés ci-dessous et ayant un gain admissible maximal et l'impédance requise pour chaque type d'antenne. Les types d'antenne non inclus dans cette liste, ou dont le gain est supérieur au gain maximal indiqué, sont strictement interdits pour l'exploitation de l'émetteur.

This device complies with Industry Canada licence-exempt RSS standard(s). 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.

France:

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Electronic Code of Federal Regulations Title 47: Telecommunication

PART 15—RADIO FREQUENCY DEVICES**Subpart B—Unintentional Radiators****§15.105 Information to the user.**

- (a) For a Class A digital device or peripheral, the instructions furnished the user shall include the following or similar statement, placed in a prominent location in the text of the manual:
- (b) For a Class B digital device or peripheral, the instructions furnished the user shall include the following or similar statement, placed in a prominent location in the text of the manual:
- (c) The provisions of paragraphs (a) and (b) of this section do not apply to digital devices exempted from the technical standards under the provisions of §15.103.
- (d) For systems incorporating several digital devices, the statement shown in paragraph (a) or (b) of this section needs to be contained only in the instruction manual for the main control unit.
- (e) In cases where the manual is provided only in a form other than paper, such as on a computer disk or over the Internet, the information required by this section may be included in the manual in that alternative form, provided the user can reasonably be expected to have the capability to access information in that form.

[54 FR 17714, Apr. 25, 1989, as amended at 68 FR 68546, Dec. 9, 2003]

RadiationExposure:

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator& your body.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Antenna Specification:

Ignion
Alcalde Barnils, 64-68, Mod C, 3rd floor
08174 Sant Cugat del Vallès
(Barcelona) Spain
+34 935 660 710