



Lumens[®]

Nureva HDL410 &
CamConnect Pro
Setting Guide

Discovering/ Enrolling HDL410

Preface:

- Accessing Nureva Console
- Enrolling HDL410 (console method)
- Editing/defining room dimensions

1. Access and enroll HDL410

1.1 Access Nureva console: <https://www.nureva.com/software-and-services/console>

Note: There are 2 methods to enroll; 1. USB method and 2. Nureva console. (Nureva console is shown here)

- For USB method see here (console client) : <https://support.nureva.com/faqs-nureva-console/generate-enrollment-code-with-nureva-console-client>

1. Link to Nureva console (runs in browser)

2. Go to Rooms

3. Enroll your device HDL410

This is a sample of an enrolled HDL410 in a configured room

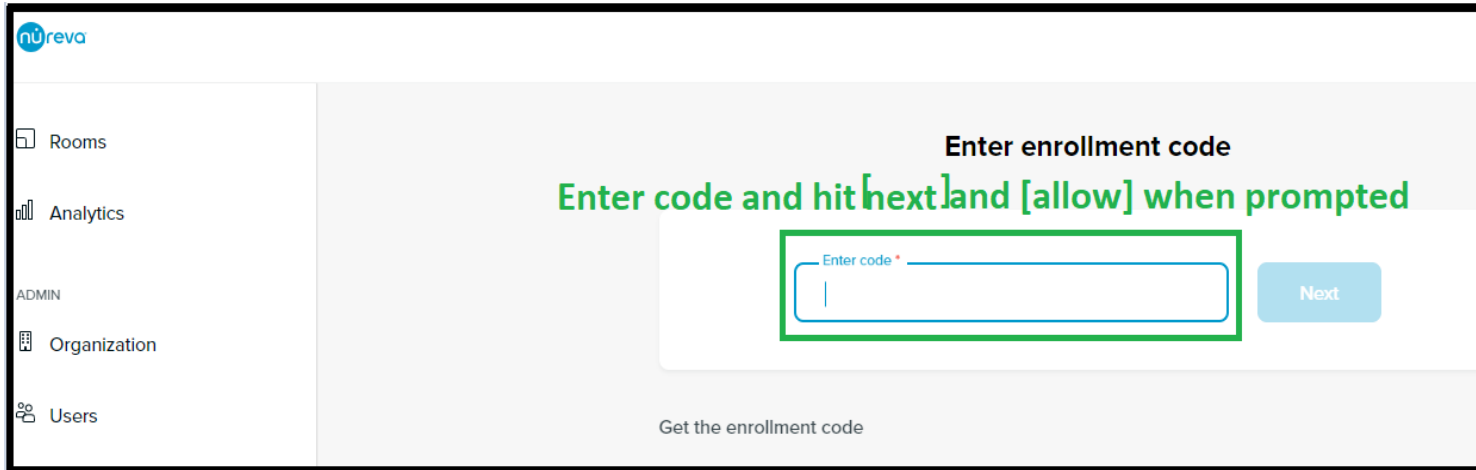
Room name ↑	Device	Firmware version	Device status	Actions
501Room	HDL410	1.5.243554	Online	...
Lumens_401 PRO	Dual HDL300	3.1.9	Online	...

1. Access and enroll HDL410

1.2 Enrolling HDL410 (console):

1.2.1 enter your enrollment code (located at the bottom of console- hardware).

1.2.2 You will be prompted to enter room level details- see next section



The screenshot displays the nureva console interface. On the left is a navigation sidebar with the following items: Rooms, Analytics, ADMIN, Organization, and Users. The main content area is titled "Enter enrollment code" and contains the instruction "Enter code and hit [next] and [allow] when prompted". Below this instruction is a text input field labeled "Enter code *" and a "Next" button. At the bottom of the main area, there is a link that says "Get the enrollment code".

HDL410 Room Level Settings

Preface:

- Defining room type
- Accessing room level settings
- Editing/defining room dimensions
- Defining Room Dimensions for optimum performance
- Fine tuning room in relation to seating arrangements and HDL410 ports
- Recalibrating HDL410 in defined room

2. Setting up HDL410 in room (room level settings)

2.1 Defining room type:

- Shown below is [type =Meeting room]. HDL410 supports up to 8 types (classroom, open space and others).

501Room

Note: this is a sample of configured room, you will be prompted to enter room name and type when enrolling HDL410

License License expiry

N/A N/A Refresh

Room name Room type Capacity

Tags **Define room type**

Room time zone

Notes

2. Setting up HDL410 in room (room level settings)

2.2 Accessing room level settings;

- Your newly created room will appear in rooms section, click on [room name] to access.

The screenshot shows the noreva dashboard interface. On the left is a navigation sidebar with 'Rooms' highlighted. The main content area is titled 'Rooms' and features a summary card with four metrics: 'Total rooms' (2), 'All good' (1), 'Warnings' (1), and 'Issues' (0). Below this is a table of rooms with columns for 'Room name', 'Device', 'Firmware version', 'Device status', and 'Actions'. The first row, '501Room', is highlighted with a green border and a red box around the name. A red arrow points to the name with the text 'access room level setting' below it. A second row shows 'Lumens_401 PRO' with a 'Dual HDL300' device and 'Unavailable' status. The top of the dashboard has a breadcrumb '1. Go to [Rooms]' and an 'Enroll device' button. The bottom right shows pagination: 'Items per page: 10' and '1 - 2 of 2'.

Room name ↑	Device	Firmware version	Device status	Actions
501Room	HDL410	1.5.243554	Online	...
Lumens_401 PRO	Dual HDL300	3.1.9	Unavailable	...

2. Setting up HDL410 in room (room level settings)

2.3 **Editing/defining room dimensions:** (HDL40 works as if were a single unit.)

The screenshot shows the Lumens software interface for configuring a room. The breadcrumb navigation at the top reads "Rooms > 501Room". On the left sidebar, the "501Room" item is highlighted with a green box. Below it, there is a "Coverage map" icon and a "DEVICES" section containing a "+" button and an "HDL410" device with a green dot. The main content area is titled "501Room" and features a "Coverage map BETA" section with a "1. Enter your room" instruction. The map displays a grid with blue circles representing "Sound detected" and two microphone icons labeled "Port 1" and "Port 2". A legend on the right explains the "Bird's-eye view of microphone coverage area" and the "Sound detected" circles. A "2. Edit room size" instruction is present, and a green box highlights the "Edit room size" button in the bottom right corner. A link "Explore sound location data" is also visible in the top right of the map area.

2. Setting up HDL410 in room (room level settings)

2.4 Defining Room Dimensions for optimum performance: (this will take you to room coverage map)

Important:

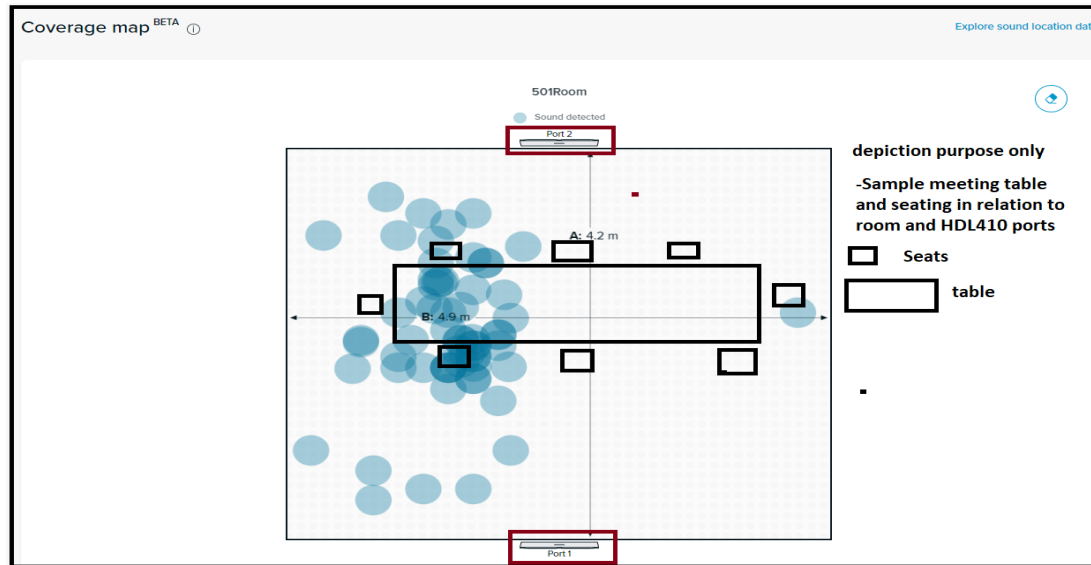
1. Measure your room space and place HDL410 port 1 and 2 as precise as possible.
2. In my demo, the actual room size is bigger than the defined dimensions. For optimized performance (to reduce reverberations, echos and background noise).

The screenshot displays the Lumens HDL410 room setup interface. The main area is a 'Coverage map' for a room named '501Room'. A red box highlights the 'Coverage map' tab in the left sidebar. A green box highlights the 'Room dimensions' panel on the right, which includes a note: 'Adjust the default dimensions below or drag the handles within the coverage map to accurately define your room size. HDL410 maximum pickup area is: 35ft x 55ft (10.7m x 16.8m)'. The 'Room dimensions' panel shows 'Feet' selected and 'Meters' selected. The dimensions are set to 4.1 m for 'A' and 4.9 m for 'B'. A red box highlights the 'HDL410 orientation' section, which contains a note: 'HDL410 orientation_this can vary based on environment and usage'. A green arrow points to the 'Room Dimensions' panel. A red box highlights the 'Port 1' and 'Port 2' labels on the coverage map. A red box highlights the 'Example: Defined dimension for pick up area (room level)' on the coverage map. A red box highlights the 'Request support' button in the bottom left corner.

2. Setting up HDL410 in room (room level settings)

2.5 Fine tuning room in relation to seating arrangements and HDL410 ports:

- An example for depiction purposes only is shown here, adjust your HDL410 port positioning as needed based on environment and usage scenario.
- The blue spots shows noise or voice source detection.

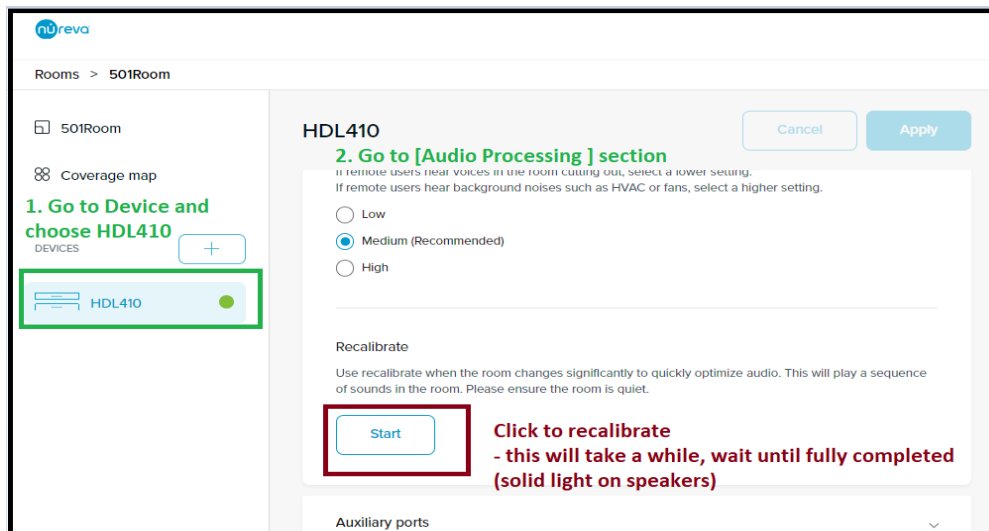


2. Setting up HDL410 in room (room level settings)

2.6 Recalibrating HDL410 in defined room:

Note: After enrolling and defining room level settings, recalibrate HDL410 in finished room. This ensures all settings are kept and HDL410 “is aware” of environmental/room level changes.

General rule = If there are room level changes, recalibrate your HDL410.



The screenshot shows the nUreva web interface for configuring an HDL410 device in a room named '501Room'. On the left sidebar, the '501Room' is selected, and the 'HDL410' device is highlighted with a green box. A green instruction reads: '1. Go to Device and choose HDL410'. The main panel is titled 'HDL410' and contains a 'Cancel' button and an 'Apply' button. Below this, a green instruction reads: '2. Go to [Audio Processing] section'. The 'Audio Processing' section has three radio button options: 'Low', 'Medium (Recommended)', and 'High'. Below this is a 'Recalibrate' section with a 'Start' button highlighted by a red box. A red instruction next to the button reads: 'Click to recalibrate - this will take a while, wait until fully completed (solid light on speakers)'. At the bottom, there is an 'Auxiliary ports' dropdown menu.

CamConnect Pro (AI-BOX1) Settings

Connected State_AiBox and HDL410

Preface:

- Allow HDL410 to send data to CamConnect
- Three Basic connection Steps
- Fine tuning and mapping of seating positions (Azimuth angles in CamConnect) with HDL410

3. Connecting CamConnect with HDL410

3.1 Allow HDL410 to send data to CamConnect.

- Use port [8931] & enter Camconnect's IP address [Ex. 192.168.11.11].

The screenshot shows the configuration page for an HDL410 device. The interface is divided into two main sections: a left sidebar and a main content area.

Left Sidebar:

- Rooms > 501Room
- 501Room
- Coverage map
- 1. Select HDL410** (highlighted in green)
- DEVICES (+)
- HDL410 (highlighted in green)
- Request support

Main Content Area:

- HDL410** (Title)
- Cancel / Apply buttons
- Local integrations** (Section header, highlighted in green)
- 2. Go to local integrations (Step 2, highlighted in green)
- Allows the following data to be shared with third-party systems for camera tracking and switching:
 - Sound location data collected by this HDL410
 - Zone data configured on the coverage map
- 3. enable local integrations** (Step 3, highlighted in green)
- Enable local integrations (Toggle switch, highlighted in green)
- Network integration settings
 - Host name: nureva
 - IP address: 192.168.11.27
 - Port: **8931** (Step 4, highlighted in red)
- 4. use port 8931 (Step 4, highlighted in red)
- All local host connections can access enabled integrations for this device.
- Also allow the following local network connections to access enabled integrations:
 - Allowed host names / IP addresses (optional)
 - 192.168.0.118, 192.168.0.111, 192.168.7.50, 192.168.7.47, 192.168.7.44, 192.168.11.15, 192.168.7.14, 192.168.7.201, 192.168.7.42, 192.168.7.43, 192.168.7.77, 192.168.7.44, 192.168.11.33, 192.168.11.22, **192.168.11.11** (Step 5, highlighted in red), and a field for "Enter names or address".
- 5. enter Camconnect IP (Step 5, highlighted in red)

✘ Nureva default port is 8931. Please confirm the port is allowed to connect with your PC.

3. Connecting CamConnect with HDL410

3.2 Three Basic connection Steps:

Below items are found under [Supported Device & Settings] HDMI/Web interface.

- From Device drop down list select = HDL410.
- Enter HDL410's IP address = [example : Device IP = 192.168.11.27]. **IP of HDL410 can be found as shown in 3.1.**
- Connect toggle bar set to connect = [Connect = move toggle to right].

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Device & Setting | System | Video Output Setting | Maintenance | About

Device Numbers: 1 | Testing mode:

Nureva:HDL410

Device: Nureva:HDL410 (1)

Device IP: 192.168.11.27 (2)

Device Port: 8931 (Comes automatically)

Connect: (3) | Apply

Advanced

Mic. Azimuth Angle: -9

1. Select HDL410 from drop down list
 2. Enter HDL410 IP_ you can find this in network section of HDL410
 3. Slide the connect button to right

Azimuth Angle	Camera	Preset No.
-70 ~ -53	Off	1
-53 ~ -35	Off	2
-35 ~ -18	VC-TR40N(192.168.11.18)	1
-18 ~ 0	VC-TR40N(192.168.11.18)	2
0 ~ 17	VC-TR40N(192.168.11.18)	4
17 ~ 35	VC-TR40N(192.168.11.18)	3
35 ~ 52	Off	7
52 ~ 70	Off	8

Apply

Connecting CamConnect with HDL410

3.3 Fine tuning and mapping of seating positions (Azimuth angles in Camconnect) with HDL410.

- In Advanced setting of CamConnect; set the [Audio Trigger level = 65] or stay close to 60 depending on environment.
- Camconnect automatically provides 8 Azimuth Angles (these angles are adjustable for fine tuning per environment).
- In my example; I show only 4 azimuth Angles in operation; voice source is detected at [-35 ~ -18] then VC-TR40N preset 1 is used to capture talker/voice source.
- Map and Adjust your azimuth angle and seating arrangements per environment, use “heat map” in Coverage map.

Device & Setting

System

Video Output Setting

Maintenance

About

Device Numbers: 1 Testing mode:

Device: Nureva HDL410

Device IP: 192.168.11.27

Device Port: 8931

Connect: Apply

Advanced

Connected State_HDL410 sending data to Camconnect & camConnect processing/triggering camera to capture preset position when triggered

Azimuth Angle	Camera	Preset No.
-70 ~ -53	Off	1
-53 ~ -35	Off	2
-35 ~ -18	VC-TR40N(192.168.11.18)	1
-18 ~ 0	VC-TR40N(192.168.11.18)	2
0 ~ 17	VC-TR40N(192.168.11.18)	4
17 ~ 35	VC-TR40N(192.168.11.18)	3
35 ~ 52	Off	7
52 ~ 70	Off	8

Mic. Azimuth Angle: -21

Example: Gree highlight shows HDL410 detects voice source at -21 degrees, sends it to Camconnect, camconnect then triggers a camera to capture person at this position

Thank You!



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