



# **HDL410** system

The HDL410 system delivers pro audio performance without the cost and complexity of a custom pro AV system. It combines a powerful connect module with two integrated microphone and speaker bars to offer advanced processing and premium features for rooms up to 35' x 55' (10.7 x 16.8 m).

## Next-generation microphone pickup

Like all Nureva® systems, the HDL410 is powered by patented Microphone Mist™ technology, which fills a space with thousands of virtual microphones for true full-room audio coverage. Because the HDL410's connect module has greater processing power and expanded memory, it unlocks more advanced audio capabilities within the technology. This includes processing the physical mics from two bars together instead of separately, resulting in clearer, more consistent microphone pickup.

## Simple wall-mounted installation

Installing the HDL410 is an easy project that takes about 60 minutes. You hang each unit on the wall with two screws, run one cable from each unit to the connect module and another to a computer or other internet-connected device. Compare that to traditional systems for large spaces that may include choosing and installing multiple mics, speakers, cables and a DSP – a process that can take days and require outside technicians.

## Tools to manage at scale

The HDL410 and all your Nureva devices can be managed from anywhere with Nureva Console – our secure cloud-based platform included with each system. Use it to remotely install firmware updates, check device status, analyze room data, access developer APIs and more. With the HDL410, there's no need for a dedicated in-room PC to manage your devices. Console Direct gives you a secure, continuous connection to your account with no need to download software.

#### **Features**

- Unified coverage map allows both microphone and speaker bars to work together to create a giant microphone array
- Intelligent Sound Targeting uses adaptive learning algorithms to preemptively ignore persistent unwanted sounds like HVAC
- Position-based gain control applies gain separately to each sound, which lets us make specific optimizations to create a natural listening experience
- Simultaneous processing of all virtual microphones ensures that conversations sound natural even when more than one person is speaking at the same time
- Voice Amplification Mode (with audience mute) lets presenters use a headset mic to amplify their voice in the room
- Camera tracking (coming soon) enables the use of precise sound location data to steer and switch third-party cameras
- Integrated processing requires no separate DSP as all processing is integrated into the system
- **Console Direct** offers a secure, 24/7 connection to Nureva Console without the need for an in-room PC



## **HDL410 system** – pro audio performance for rooms up to 35' x 55' (10.7 x 16.8 m)

#### **HDL410**

#### **Technology features**

Advanced Microphone Mist technology processing platform

Unified coverage map

Continuous autocalibration

Position-based gain control

Acoustic echo cancellation

Built-in dynamic sound masking

Plug and play, no software or drivers required

Ethernet cables to each microphone and speaker bar

Primary audio source for video playback Integrated, multicolor status LED

## Microphones

24 low-noise omnidirectional MEMS (12 in each microphone and speaker bar)

Frequency response at 94 dB SPL 100Hz to 7 kHz

Total harmonic distortion (THD) 0.25% (typical)

### **Speakers**

20W (x4) 4" aluminum cone (2 in each microphone and speaker bar)

Acoustic output (hardware capable): 91 dB-SPL @ 1m

Total harmonic distortion (THD) 0.25% (typical)

#### Connect module

USB 2.0 interface to computer or collaboration hub, type B x1

Auxiliary out – 3.5 mm single-ended stereo jack x1

Auxiliary in – 3.5 mm single-ended stereo jack x1

Connection to microphone and speaker bars R|-45 x2

Console Direct RJ-45 for connecting to network

Input jack for power supply x1

## Interoperability

Plug and play compatibility with UC&C platforms including Microsoft® Teams, Zoom, Google Meet™, GoToMeeting®, Cisco Webex®, Blue Jeans, Lifesize®, RingCentral and more

Easy integration with third-party solutions such as Barco ClickShare, lecture capture systems and headset microphones with Voice Amplification Mode

## **Operating**

#### Operating system

Windows® 8 and 10 Mac® OS X® 10 and 11 (Big Sur and Catalina)

#### Power

Power rating: universal switching 100-240V AC, 50-60Hz

Power consumption: <30W

## **Environmental**

Operating temperature: 0° C to 40° C (32° F to 104° F)

Storage temperature:  $-20^{\circ}~C~to~70^{\circ}~C~(-4^{\circ}~F~to~158^{\circ}~F),$  humidity 5–90% (noncondensing)

## **Manageability**

Includes Console Direct, which provides a continuous and secure connection to Nureva Console, our cloud-based device management platform

## **Console Direct security features**

Secure IoT OS and system software with device-specific X.509 certificates and external services encrypted using 256-bit Transport Layer Security (TLS)

Information security management system (ISMS) aligned to ISO27001

Built with Microsoft Azure, all data at rest is encrypted using 256-bit AES encryption, and data in transit uses TLS 1.2

Okta Identity Cloud for all identity and access management (IAM) services with OAuth2 protocols to identify and authorize users

## **Certifications and compatibility**

## **Electromagnetic**

FCC Part 15, Class A; ICES-003, Class A; CISPR 32 (EN55032), Class A; CISPR 35 (EN55035); CISPR24 (EN55024)

#### Safety

UL 62368; CAN/CSA-C22.2 NO.62368; IEC/ EN62368; AS/NZS 62368; UL 60950; CAN/ CSA-C22.2 NO.60950; IEC/EN60950; AS/NZS 60950

## Compliance

RoHS, REACH, PoP (Persistent Organic Pollutants), WEEE compliance, California Proposition 65, EPA (TSCA–Toxic Substances Control Act) Restrictions

## HDL410 system - pro audio performance for rooms up to 35' x 55' (10.7 x 16.8 m)

### **Dimensions**

## Integrated microphone and speaker bar (each)

Width: 60.0" (152.4 cm) Height: 5.91" (14.9 cm) Depth: 3.5" (9.0 cm) Weight: 18.0 lb. (8.2 kg)

#### Connect module

Width: 8.7" (22.2 cm) Height: 1.46" (3.7 cm) Depth: 5.91" (15.0 cm) Weight: 0.97 lb. (0.44 kg)

### Shipping (box one)

Width: 64.75" (164.4 cm) Height: 10.63" (27.0 cm) Depth: 9.5" (24.1 cm) Weight: 28.0 lb. (12.7 kg)

## Shipping (box two)

Width: 64.75" (164.4 cm) Height: 10.63" (27.0 cm) Depth: 9.5" (24.1 cm) Weight: 22.0 lb. (10.0 kg)

## **System includes**

2 - Integrated microphone and speaker bars

Connect module, dark grey

Connect module mounting bracket, dark grey

Country specific power cable

2 - Ethernet cables, CAT6 SSTP, 50' (15 m), Class 3 rated, black

USB Type A-B cable, 10' (3 m),

VW-1 rated, black

Infrared remote with 2 AAA batteries

Documentation

## Warranty

Integrated microphone and speaker bars and connect module – standard 2-year limited hardware

Accessories and cables - 30 days

## **Part numbers**

Black: **HDL410-B**White: **HDL410-W** 

Nureva Pro subscription (3 years): **NP-3Y** Nureva Pro subscription (5 years): **NP-5Y** 



## We are Nureva

We believe that amazing things happen when people come together. They imagine greater possibilities, create better solutions and find greater joy in how they work and learn. It's why we create and support truly original solutions that make it astonishingly easy for our customers to connect and collaborate no matter where they are.

## Connect

Nureva Inc.

sales@nureva.com 1.403.699.9781

Book a live demo

**Contact sales** 

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