



# Nureva™ HDL300 audio conferencing system

Data sheet



## AUDIO CONFERENCING TECHNOLOGY WITH A DIFFERENCE

At the heart of the HDL300 is Microphone Mist™ technology, which fills the room with 8,192 virtual microphones. Executed on a real-time hardware platform more than 15 times faster than conventional systems, this patent-pending technology processes all microphones simultaneously and dynamically focuses on the one closest to the speaker, ensuring the best quality sound for remote listeners.

Unlike other systems, there is no clipping as a new person begins to speak. Our system is uniquely equipped to capture dynamic discussions, ensuring remote participants never miss a word.

Fully plug and play, the self-calibration feature means there's no technical setup or adjustment for the room. The integrated microphone and speaker bar easily mounts to the wall, virtually eliminating table clutter and distracting table noises while still picking up and delivering clear sound to all participants.

## A SOLUTION FOR THE CULTURAL SHIFT

There's no question that the nature of work is changing. Many meetings have remote participants who need to be fully contributing as if they were in the room. Meetings are morphing from passive events where information is consumed to active collaboration sessions where teams create.

People no longer want to be constrained to sitting at a meeting room table, facing a conference phone – they need the freedom to work at immersive wall systems and large displays. Passionate conversations with teammates talking at once need to be shared with remote colleagues with all the richness preserved.

The HDL300 system is designed precisely for this cultural shift. Our truly disruptive technology takes conferencing beyond simply sharing voices – it reduces listener fatigue as it boosts team collaboration.

## ENGINEERED FOR COLLABORATION

Designed for small to mid-sized spaces, the system supports a broad range of computer conferencing applications, including those with stereo output. Its full-duplex, acoustic echo cancellation and noise cancellation technology delivers the baseline quality that customers expect.

The HDL300 system has been engineered from scratch to create an outstanding experience for people who need to connect and collaborate with colleagues at a distance. Simply put, the HDL300 system is the most advanced audio conferencing solution ever created at a price point everyone can afford.

## BENEFITS

### 8,192 virtual microphones –

Thousands of virtual microphones fill the room, so every speaker has one in proximity

**Advanced DSP** – Run on real-time hardware at 15,000 MIPS, the DSP simultaneously processes all 8,192 microphones – there's no latency due to scanning or refocusing of microphones

**Self-calibration** – Plug and play – no setup or calibration is required

**Sound masking** – Distracting background noises are minimized

**Natural-listening experience** – Full duplex and AEC keep the audio consistent, clear and natural

### Wall-mount installation –

The integrated microphone and speaker bar declutters the conference table and virtually eliminates distracting table noise

**Optimized for small to mid-sized rooms** – The system is designed to work in a range of spaces up to 30' by 30' (9.1 x 9.1 m)

## SPECIFICATIONS

### GENERAL

Continuously self-calibrating acoustic echo cancellation  
Position-based automatic gain control (AGC)  
Plug and play, no software or drivers required  
Integrated, multicolor status LED  
Compatible with leading UC&C platforms  
Single cable, power over ethernet  
Primary audio source for video playback  
Integrated microphone and speaker bar available in black or white

### MICROPHONES

Number	12
Type	Low-noise omnidirectional MEMS
Frequency response	100Hz to 5 kHz
Total harmonic distortion (THD)	0.25% (typical)
Transmission	Full duplex
Range	30' or 9.1 m

### SPEAKERS

Number	2 x 20W
Type	4" aluminum cone
Acoustic output	91 dB-SPL @ 1m
Total harmonic distortion (THD)	<3%
Frequency response	50Hz to 16 kHz
Amplifier class	Class D

### BREAKOUT BOX CONNECTIONS

Interface to computer	USB type B 2.0 x 1
Audio out	3.5 mm unbalanced stereo jack x 1
Audio in	3.5 mm unbalanced stereo jack x 1
Connection to speaker and microphone bar	RJ-45 x 2

### OPERATING

Room size	Up to 30' x 30' (9.1 x 9.1 m)
Operating systems	Windows® 7, Windows 10, Mac OS X
System setup	Plug and play

### PART NUMBERS

HDL300-B, HDL300 audio conferencing system, black bar  
HDL300-W, HDL300 audio conferencing system, white bar

### SYSTEM INCLUDES

Integrated microphone and speaker bar, black or white  
Breakout box, white  
Breakout box mounting bracket  
Country specific, power cable 6' (2 m), black  
Ethernet cable, CAT6 SSTP, 50' (15 m), Class 3 rated, black  
USB Type A-B cable, 6' (2 m), VW-1 rated, black  
Infrared remote  
AAA batteries (x2)  
Documentation kit

### POWER

Power rating	Universal switching 100-240V AC, 50-60Hz
Power consumption (single HDL300 system)	Standby <2.5W Operational <25W

### ENVIRONMENTAL

System temperature	0° C to 40° C (32° F to 104° F) operating temperature, -20° C to 70° C (-4° F to 158° F) storage temperature, Humidity 5% - 90% (non-condensing)
--------------------	--

### WEIGHTS

Integrated microphone and speaker bar	18.0 lbs. (8.2 kg)
Breakout box	1.5 lbs. (0.7 kg)
Shipping	28.0 lbs. (12.7 kg)

### DIMENSIONS

Integrated microphone and speaker bar	Width: 60.0" (152.4 cm) Height: 5.91" (14.9 cm) Depth: 3.5" (9.0 cm)
Breakout box	Width: 6.5" (16.5 cm) Height: 1.41" (3.6 cm) Depth: 4.31" (10.9 cm)
Shipping	Width: 64.75" (164.4 cm) Height: 10.63" (27 cm) Depth: 9.5" (24.1 cm)

### CERTIFICATIONS

Electromagnetic compatibility	FCC Part 15, Class A ICES-003, Class A, CISPR 32 (EN55032), Class A CISPR 24 (EN55024)
Safety	UL 60950, CAN/CSA-C22.2 NO. 60950, IEC/EN60950, AS/NZS 60950
Environmental	RoHS, WEEE, REACH

### WARRANTY

2-year limited

## For more information

Contact us  
Nureva Inc.  
Tel. 403.699.9781  
sales@nureva.com