



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