

Partner: Nureva Model: HDL410 Device Type: Audio Conferencing System



GENERAL INFORMATION				
SIMPLWINDOWS NAME:	Nureva HDL410 Sound Tracking v1.0			
CATEGORY:	Misc.			
VERSION:	1.0			
SUMMARY:	This module interacts with an HDL410 device using a WebSocket connection to provide sound location data to a Crestron program for custom camera tracking programming.			
GENERAL NOTES:	Prerequisites: All Nureva devices must be enrolled within a Nureva Console account to enable module support. Additional details available at: https://developers.nureva.com/docs/get-started . Camera tracking integration must be enabled. Follow the process as described on https://support.nureva.com/camera-tracking to enable camera tracking integration. Once camera tracking is enabled, enter the IPAddress of the Crestron processor in the allow list. Nureva uses cardinal directions to identify the walls of the room. North, South, West and East for the top, bottom, left and right wall, respectively. The bar plugged into port 1 on the console is always considered to be on the South wall. The South wall is the X Axis. The West wall is the Y Axis. The origin (0,0) is the Southwest corner. To trigger camera presets, Nureva recommends that zones are created that have a minimum dimension of 2m x 2m with a gap of 1m between the zones. Module Support Contact: Nureva Support (@nureva.com (844) 370-2111			
CRESTRON HARDWARE REQUIRED:	Crestron 3-Series or 4-Series processor.			
SETUP OF CRESTRON HARDWARE:	N/A			
VENDOR FIRMWARE:	N/A			
VENDOR SETUP:	N/A			



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PARAMETERS:	
CommmandProcessorId	The unique identifier of this module that Nureva Sound Tracking Preset modules will reference.
IPAddress	The IPAddress of the device as defined in the camera tracking configuration in Nureva Console.
Port	The communication port as defined in the camera tracking configuration in Nureva Console. Default is 8931.
Ambient Level Threshold	The sound tracking feedback will only update if the sound level reported is above the threshold. Valid values are 0 to 60d. Default is 40d.

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CONTROL:		
Connect	D	Pulse to establish communication with the WebSocket and start initialization of the module and any preset modules.
Disconnect	D	Pulse to terminate communication with the WebSocket.
Reconnect	D	Pulse to re-establish communication with the WebSocket. This signal is provided as a convenience should it be desired to reinitialize at any point. Initialization will automatically occur when the program starts.
Debug	D	Set high to enable the internal trace messages printed in SIMPL Debugger. These messages may be useful while debugging to see what processes are occurring within the module. Note it is highly recommended to leave debugging disabled unless actively debugging as it causes much additional signal traffic in Debugger.
Enable_Tracking	D	Set high to enable the sound tracking feedback, such as when a meeting is in progress.

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FEEDBACK:		
Is_Communicating	D	Digital high indicates that the module is successfully communicating with the Websocket.
ls_Initialized	D	Digital high indicates all data points have returned device state and any preset modules have completed initialization.
Firmware_Version	S	The firmware version as reported by the device.
Model_Number	S	The model number as reported by the device.
Room_Dimension_Y_Axis	A	Analog value in millimeters of the North-South room dimension. Maximum value is 10,668d.
Room_Dimension_X_Axis	A	Analog value in millimeters of the West-East room dimension. Maximum value is 16,764d.
Sound_Power_Level	A	The sound power level in decibels at the reported sound location. Values range from 0d to 100d.
Sound_Coordinate_Y_Axis	A	Analog value in millimeters of sound location on the Y Axis. Values range from 0d to Room Dimensions Y.
Sound_Coordinate_X_Axis	A	Analog value in millimeters of sound location on the X Axis. Values range from 0 to Room Dimensions X.

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Certified Module

TESTING:

OPS USED FOR TESTING:	CP3 v1.8001.5061.26823 MC4 v2.8000.00017
SIMPL WINDOWS USED FOR TESTING:	4.2200.00
CRES DB USED FOR TESTING:	218.00
DEVICE DATABASE:	200.265
SYMBOL LIBRARY USED FOR TESTING:	1246
SAMPLE PROGRAM:	Nureva HDL410 Sound Tracking Demo v1.0.smw
REVISION HISTORY:	v1.0 – Initial Release

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