

TECH NOTE

PRODUCTS AFFECTED:

CONVERGE® Pro 2 DSP mixers, CONVERGE Huddle, UNITE® Cameras, BMA CT, Ceiling Mic Array Analog X, Datapoint

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INTEGRATING CLEARONE PRODUCTS WITH MICROSOFT TEAMS

OVERVIEW

Explains integration of ClearOne products with Microsoft Teams

INTEGRATION

Microsoft Teams is a PC-based media collaboration platform that can be used in a wide variety of meeting spaces from huddle rooms to large conference rooms. Whatever the configuration, ClearOne products can be easily added to the system by simply connecting a USB cable between a computer running the Microsoft Teams application and ClearOne conferencing system components. In Figure 1 below, the CONVERGE® Pro 2 48VT is integrated into the Teams system to add expanded audio conferencing functions to the meeting space. In Figure 1, the device running Microsoft Teams is a NUC small form factor computer.

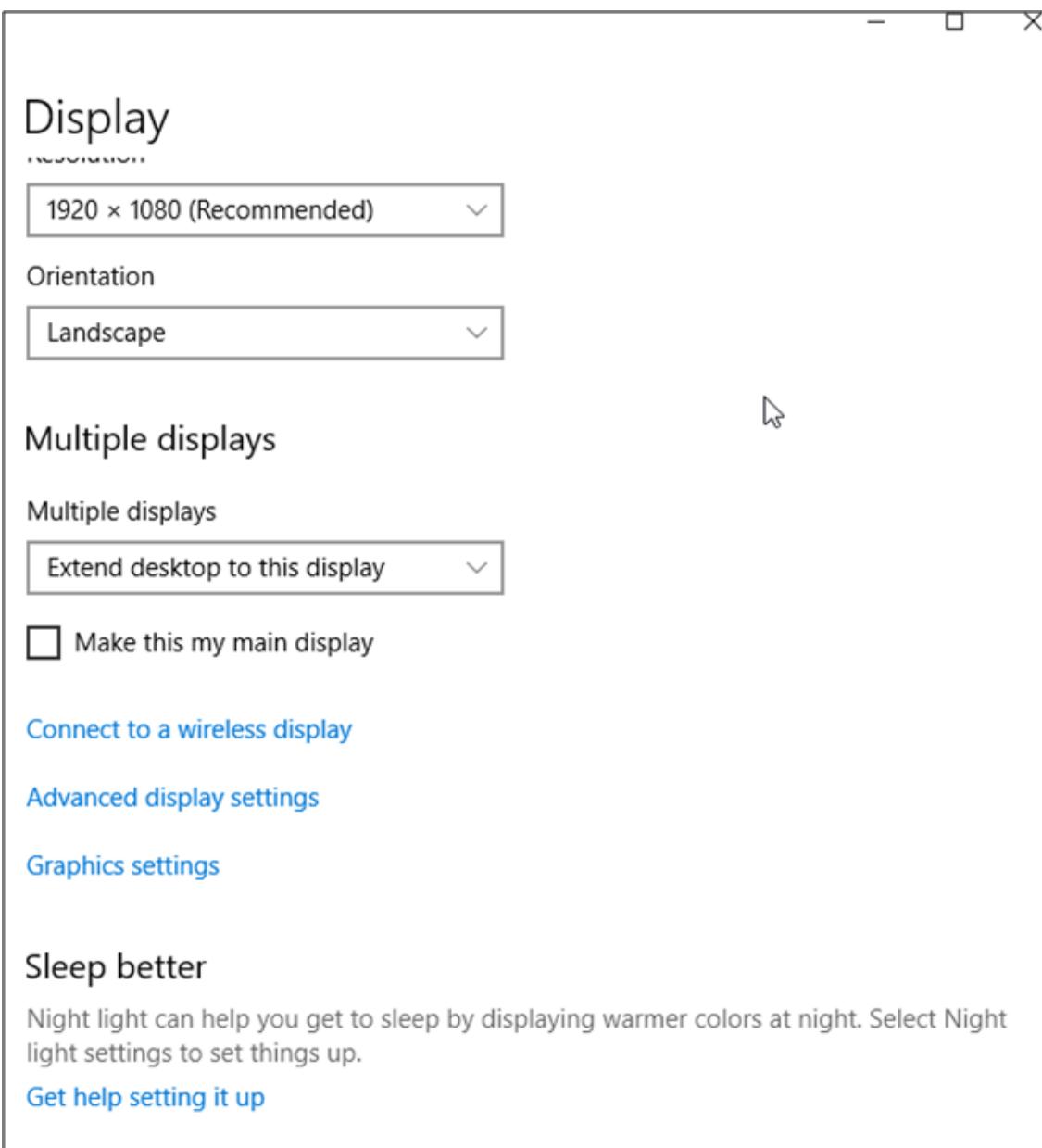
During initial system setup, the A/V integrator should have a USB hub, keyboard, and mouse to place the MS Teams user interface in the correct location, and to set up various Windows preferences and settings. After the system has been set up and configured, a touch panel USB monitor, like the Mimo Monitors UM-1080C-G, can be used to control the system and make calls: https://www.mimomonitors.com/products/mimo-vue-hd-display-um-1080c-usb-capacitive-touch?_pos=1&_sid=a4c18e446&_ss=r

The USB touch panel monitor acts as a second display for the computer. The Microsoft Teams user interface is displayed on the touch panel monitor to allow easy control of the Microsoft Teams user interface.

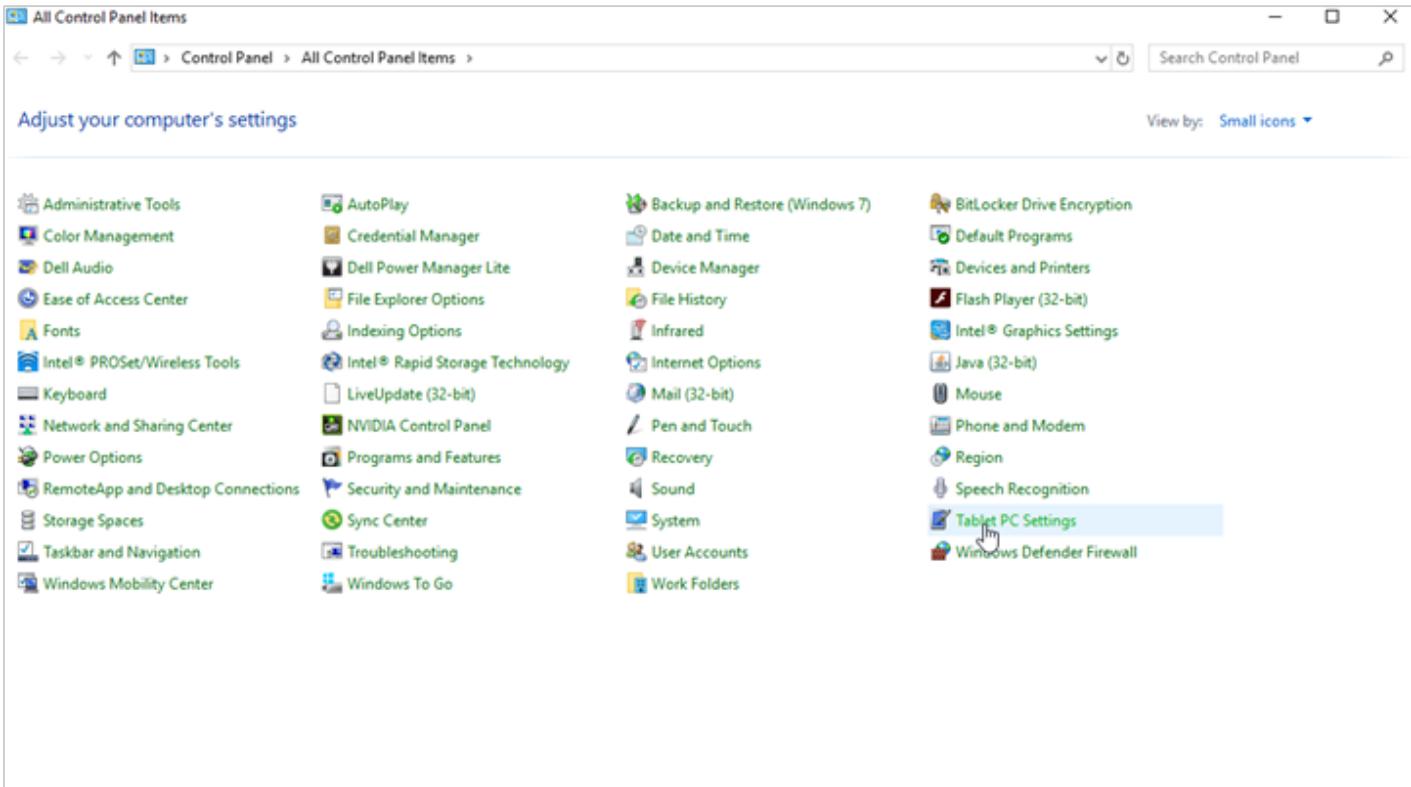
When the Mimo monitor is connected to a PC with Windows 10 operating system for the first time Windows will automatically install the necessary drivers for the touch panel. It will take a moment for the process to complete and then the Display Settings screen will appear.

Steps to configure Windows:

1. In the Multiple Displays section, confirm that Extend desktop to this display is shown.



2. Next click on the Windows Start button and search for Control Panel
3. Select Tablet PC Settings



4. Select Setup. A white screen will appear on all monitors. Follow the instructions on screen to setup your monitor as a touch device.

Once these steps have been completed return to Display settings and switch from Extended Display to Duplicate Displays for best performance. Setup should now be complete.

If the touch panel monitor is to be connected to a PC that is located farther from the monitor than a normal USB cable will reach, ClearOne offers 10 meter and 30 meter USB extension cables that can be connected between the components. The Mimo Touch Panel has 2 USB connections that allow for an extra power source to be added to ensure proper functioning of the touch panel monitor.

There are 2 options for providing additional power to the display.

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Option 1: Use the Y adapter on the Mimo Monitor cable to add a USB wall wart to supply power to the monitor as shown below:



Option 2: Attach one end of the USB A to USB micro A cable supplied with the ClearOne 10 meter and 30 meter USB extender cables to the slot on the side of the main USB A connector, and connect the other end of that cable to a standard USB wall wart power supply.

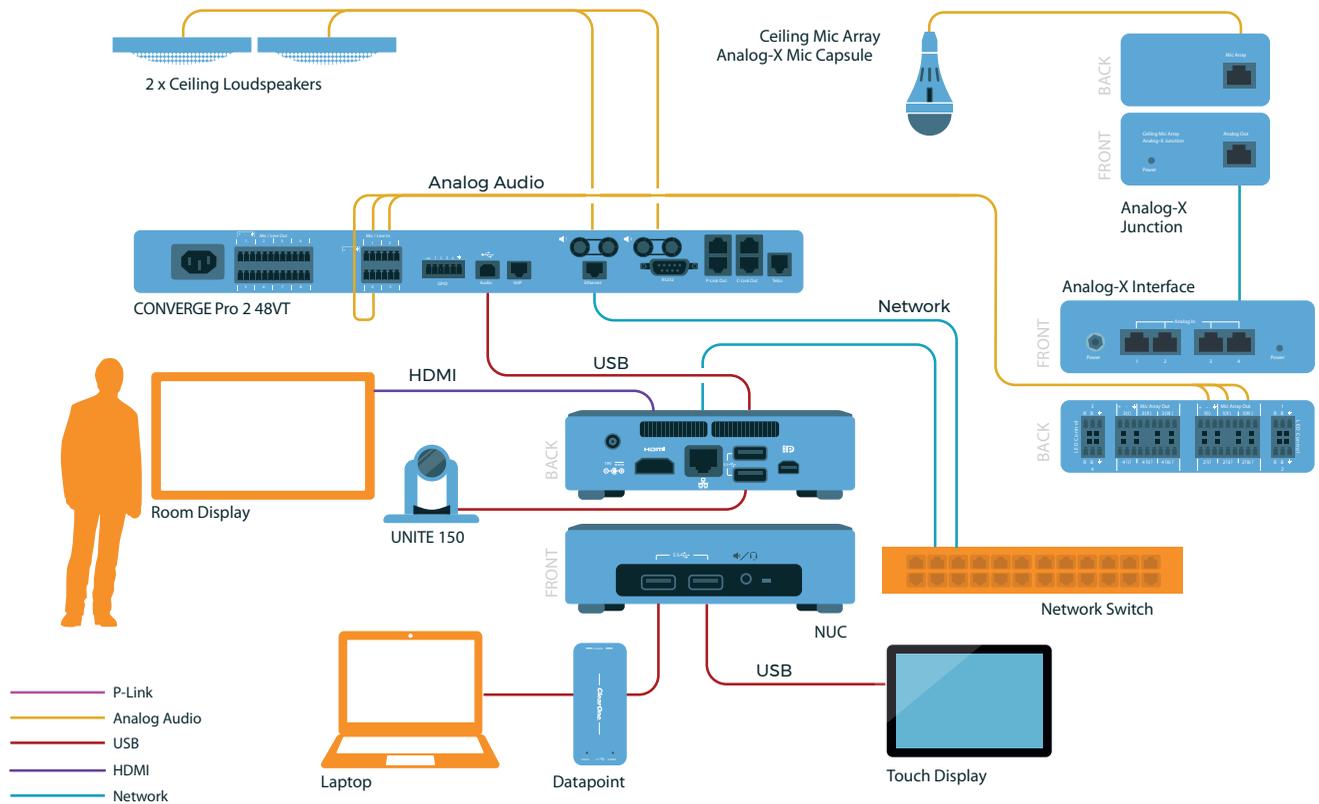


All ClearOne conferencing hardware components are easily connected to a PC running Microsoft Teams by means of USB ports, which keeps cabling simple.

Figure 2 shows the use of a ClearOne Ceiling Microphone Array Analog X instead of a BMA CT as the microphone for the system. Other alternative microphone options include:

wired table microphones (<http://www.clearone.com/other-microphones-1>)

and/or wireless microphones (<http://www.clearone.com/dialog-20>)

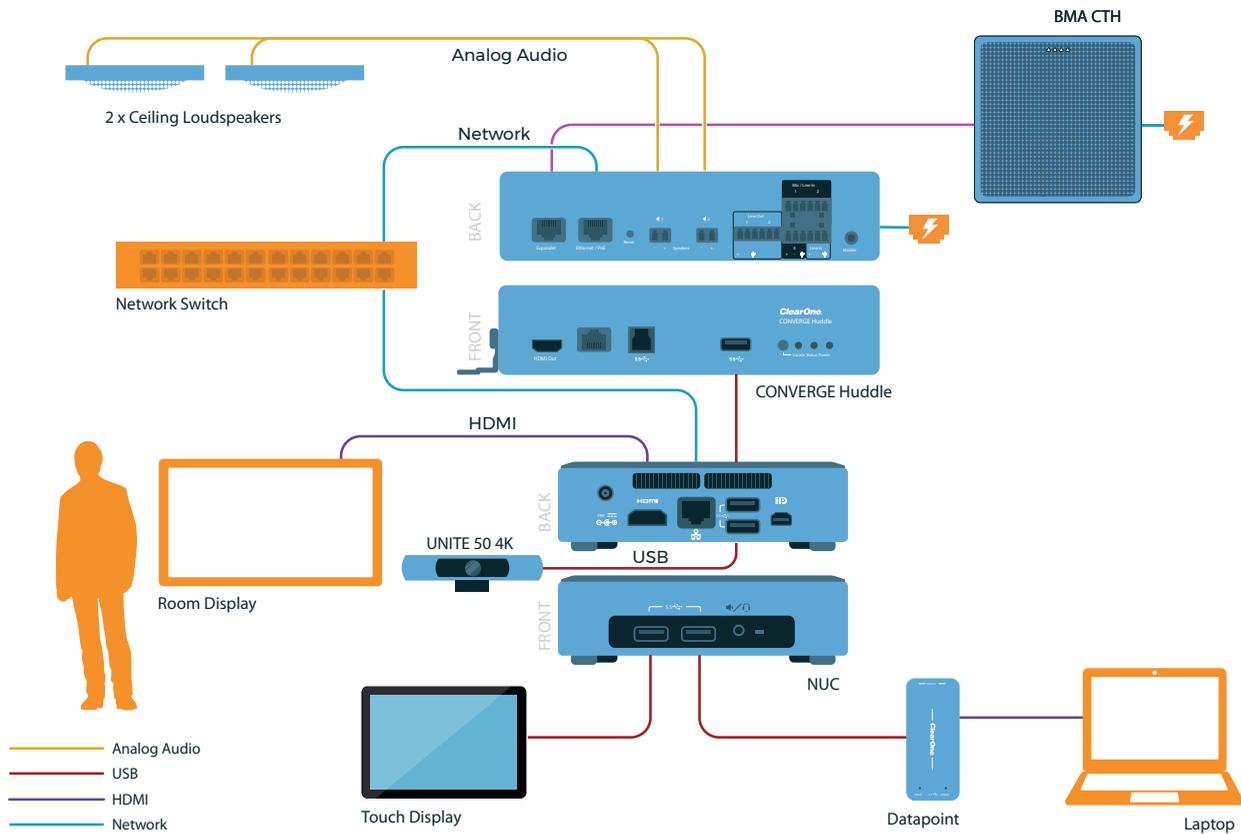


CONVERGE® Pro 2 48VT Audio DSP | Ceiling Loudspeakers | UNITE® 150 PTZ Camera
Ceiling Microphone Array Analog-X | NUC | DataPoint | Touch Display

ClearOne
Application Diagram - NUC with CMA Analog X
V 1.2

Figure 2. A wiring diagram showing connection of ClearOne audio and video peripherals to a NUC computer running Microsoft Teams. In this drawing, the microphone is a Ceiling Microphone Array Analog X.

In Figure 3, a Versa Pro CT solution provides the DSP mixer and BMA CTH microphone functionality and a UNITE 50 4K provides video input.



CONVERGE® Huddle | Ceiling Loudspeakers | UNITE® 50 4K ePTZ Camera | NUC | DataPoint
Touch Display | Ceiling Microphone Array Analog-X | UNITE® 50 ePTZ Camera

ClearOne
Application Diagram - Versa Pro CT with NUC
V.1.0

Figure 3. A wiring diagram showing connection of ClearOne audio and video peripherals to a NUC computer running Microsoft Teams.

When adding a Vera Pro CT, be sure to check Sound Settings in Windows to ensure that the Huddle is set as the default audio device. Microsoft Teams will then use these default Settings. See Figure 4

ClearOne.

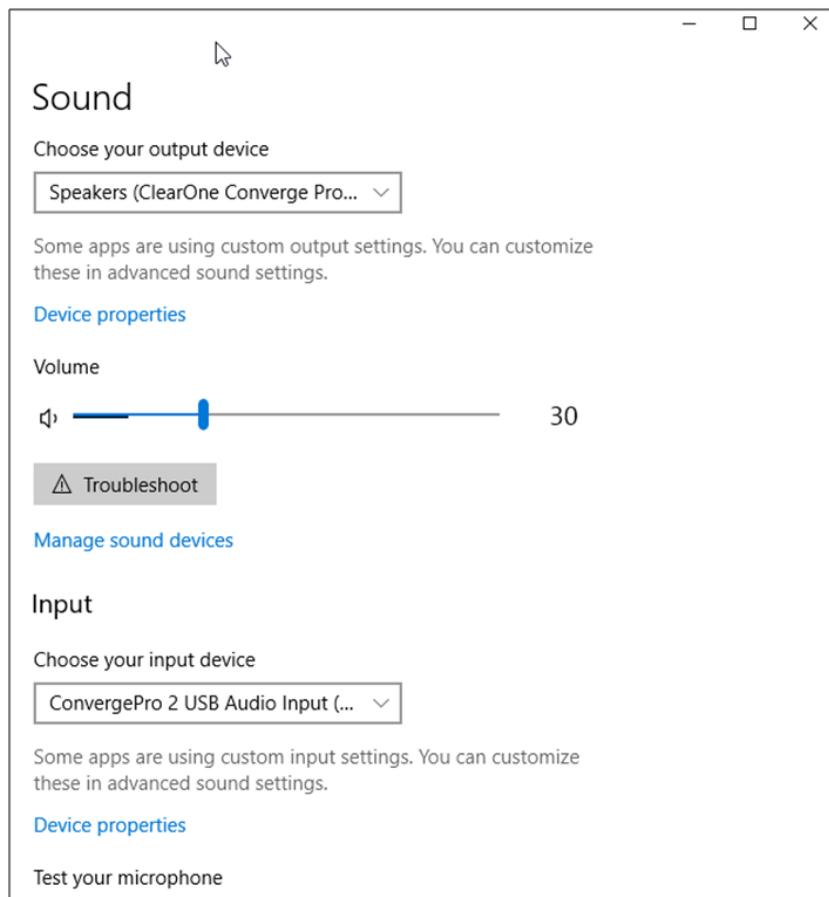


Figure 4. Windows Sound Settings

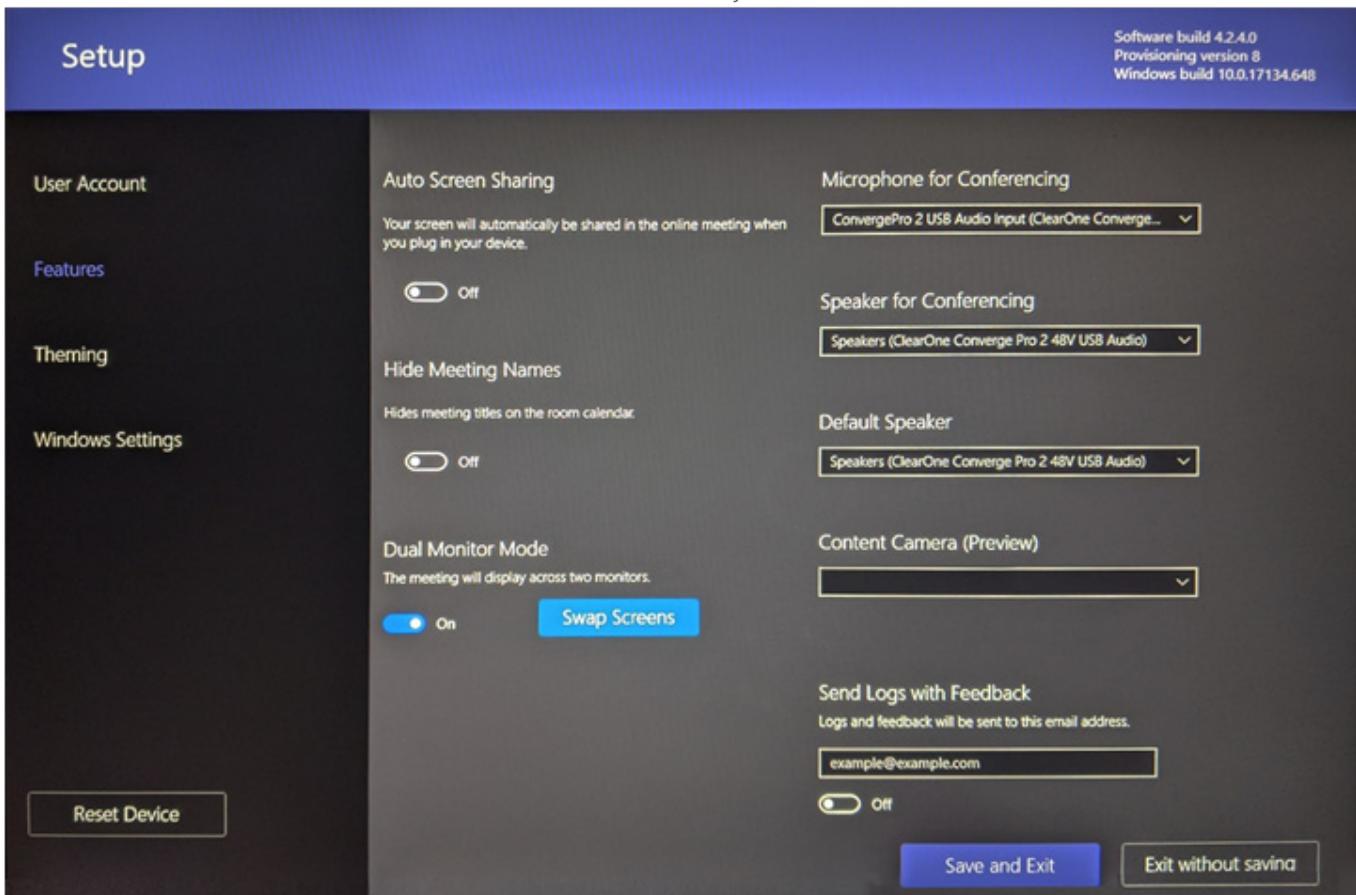
Another option for integrating ClearOne Converge Pro 2 or Converge Huddle with Microsoft Teams is the HP Elite Slice G2

<https://www8.hp.com/h20195/V2/GetPDF.aspx/4aa7-3688eee>

This system is described as audio ready and only requires a USB connection for the Converge Pro 2 or Converge Huddle to add room conferencing to a Microsoft Teams collaboration system.

The HP Elite Slice G2 has a simple setup wizard that allows you to select the Converge Pro 2 or Converge Huddle as the default audio system during initial configuration.

You can also use one of ClearOne's Unite video cameras with the system. During initial setup it is not necessary to select the Unite camera as there is an issue with the HP system that will prevent it from being used when selected. If the selection is left blank the Unite camera will be used by default.



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