



AVW-6555 Firmware SOP

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Introduction

This SOP describes the steps required to update all system firmware of the Avocor AVW-6555 Windows Collaboration Display (WCD) to enhance compatibility and enable WSI.

Scaler Firmware V1.12

Note

The Scaler Firmware V1.12 must be upgraded BEFORE the IOT Firmware V32.

1. Download *scaler_AVW-6555_V1.12.bin* for your Avocor display model and save it to a FAT32 compatible USB flash drive.
2. Rename the file **merge**.bin.
3. Plug the USB flash drive into the **Service Port** on the display.



4. Open the OSD for the display and navigate to **Adv Settings>Firmware Update**
5. Select "Yes" when prompted to confirm installation.
6. Do not turn off the display until the installation has finished.
7. Once the update is complete perform a factory reset by navigating to **Adv Settings>Restore Factory Default**

IOT Firmware V32

1. Download *MERGE_IOT_V32.bin* and save it to a FAT32 compatible USB flash drive.
2. Rename the file **MERGE_IOT**.bin
3. Plug the USB flash drive into the **Service Port** on your AVW-6555.



4. Open the OSD for the display and navigate to **Adv Settings>IoT Firmware Update**
5. Select "Yes" when prompted to confirm installation.
6. Do not turn off the display until the installation has finished.
7. Once the update is complete initiate a Factory Reset by navigating to **Adv Settings>Restore Factory Default**.

Conexant Firmware USB Patch Rev3002

Tools Required

- *Conexant_USB_DSP_Patch.zip*
- Windows 10 or Windows 7 PC

- HDMI cable*
- USB-A to USB-B 3.0 cable*
- (optional) USB-C cable*

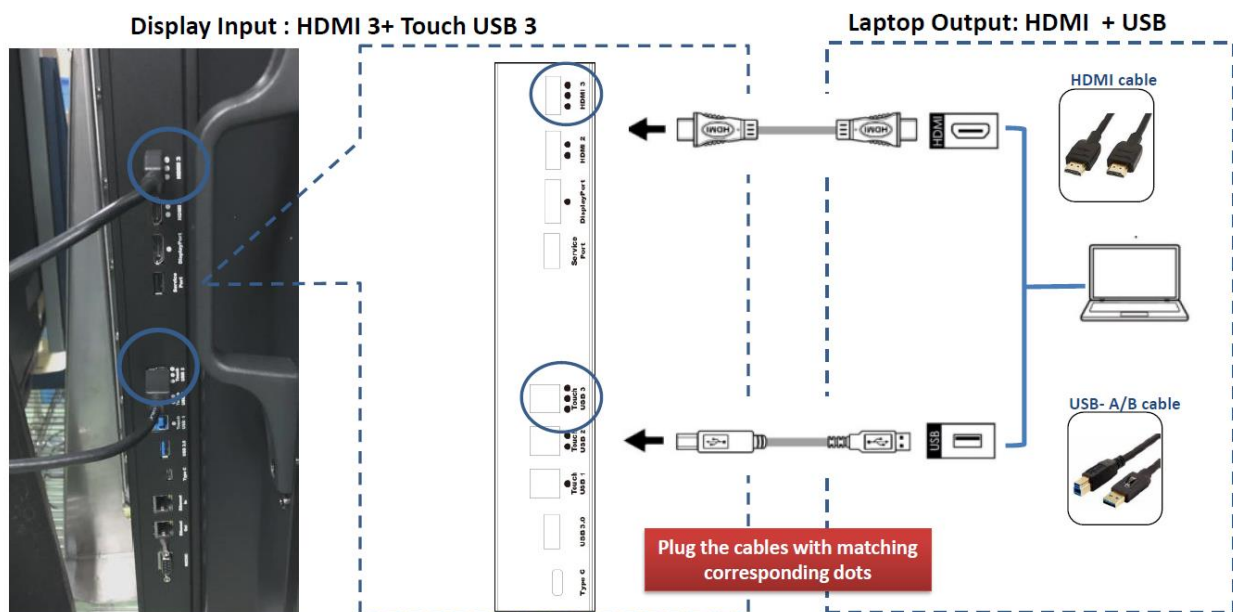
**Use the cables that arrived with your WCD's accessory pack if possible.*

Connection Setup

Listed here are a few ways to establish a connection between your computer and the AVW-6555.

The basic principle to keep in mind is that if you use HDMI + USB-B Touch, you must set the correct touch port in Touch Input Mapping (**OSD Menu>ADV Settings>Touch Input Mapping**).

Setup 1 (Recommended)



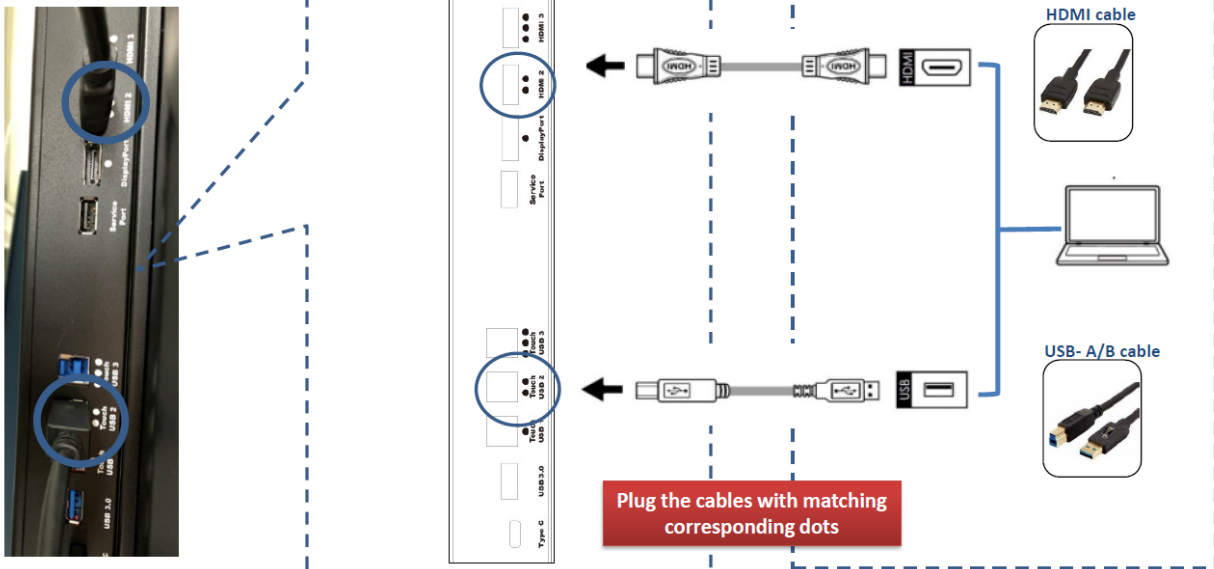
Touch Input Mapping

- Set to **USB Touch 3**

Setup 2

Display Input : HDMI 2+ Touch USB 2

Laptop Output: HDMI + USB



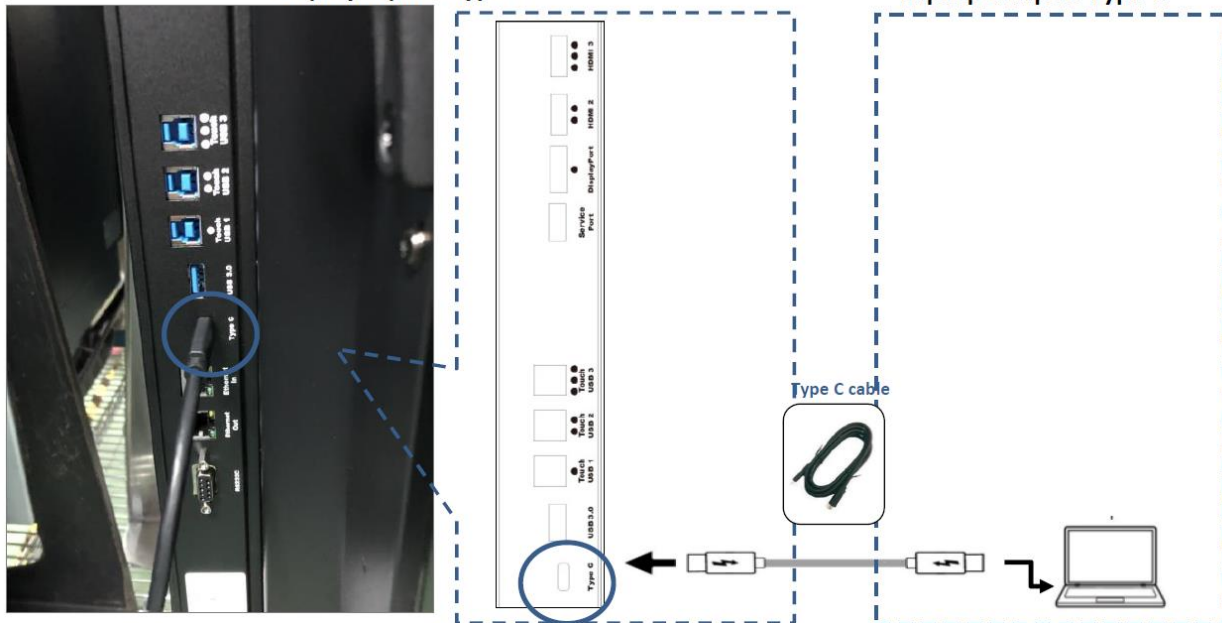
Touch Input Mapping

- Set to **USB Touch 2**

Setup 3

Display Input : Type C

Laptop Output: Type C



Apply USB Patch Firmware Update

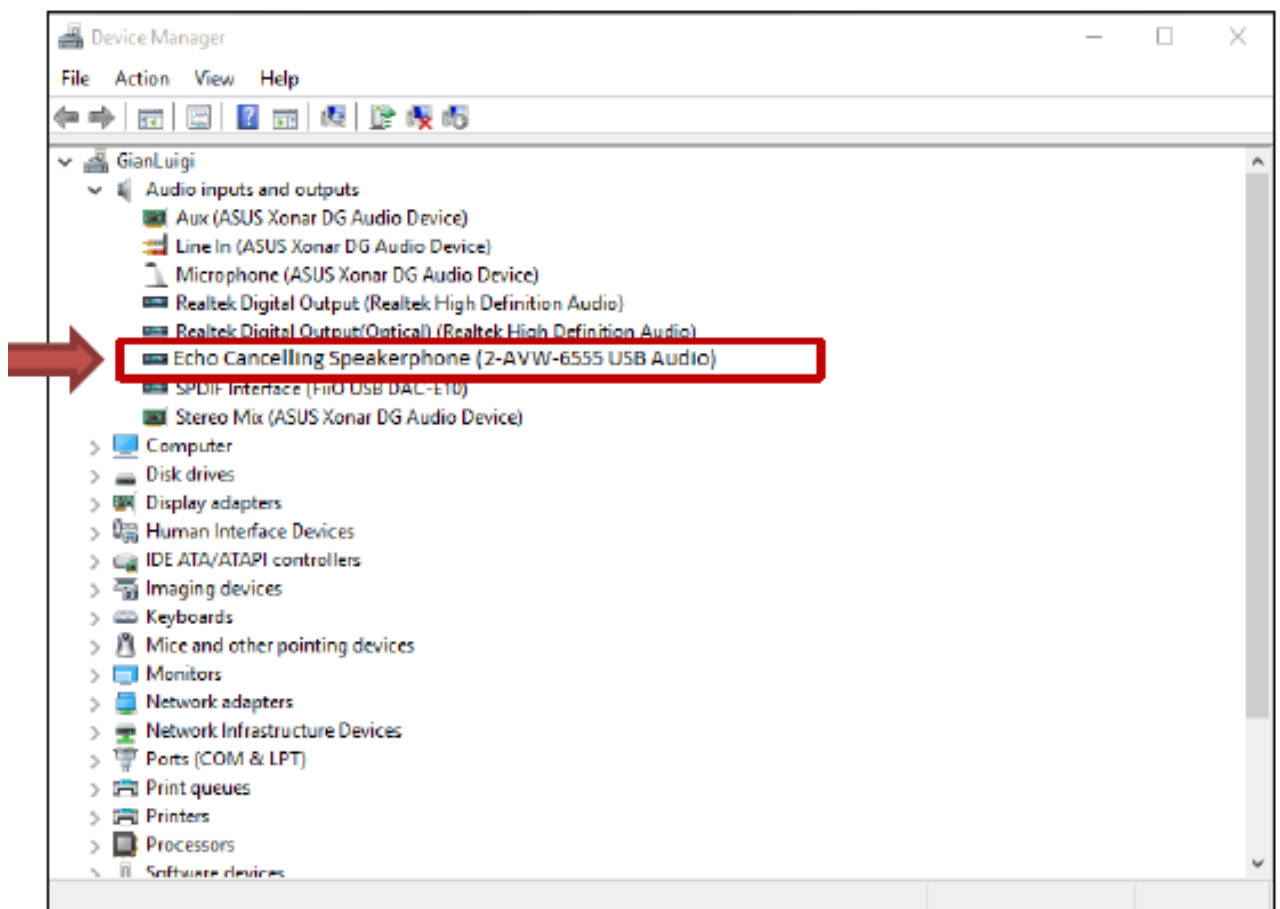
1. Download [Conexant USB DSP Patch.zip](#)
2. Extract the files
3. Run [04_EC_Patch_UpgradeFirmware 1.0.78.0.exe](#)
4. Ensure that **Status** is "OK".
5. Click **Browse** and open [Wedoinno Dura Patch 16-56-02 Rev 3002 500ms.ptc](#)
6. Press **Upgrade**.
7. After a few minutes, a dialogue box will report your **Success**.
8. Restart the AVW-6555 by switching the Main Power Switch Off and On.

Check the USB Audio Device Name

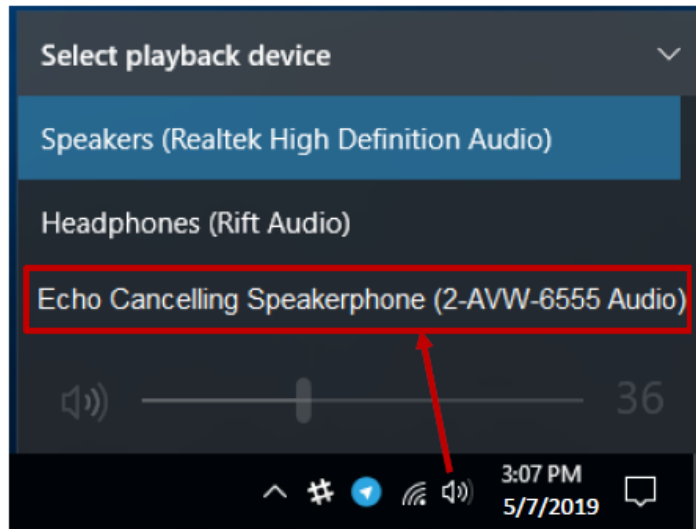
We need to make sure the USB Patch did its job.

Device Manager

1. Press **Windows Key + X**
2. Click **Device Manager**
3. Check **Audio inputs and outputs**>**Echo Cancelling Speakerphone(2-AVW-6555 USB Audio)**



Audio Devices



Microphone FW 7.76.8.81

Tools Required

- [Siena Driver.zip](#)
- [MicFW.zip](#)
- Windows 10 or Windows 7 PC
- HDMI cable*
- USB-A to USB-B 3.0 cable*
- (optional) USB-C cable*

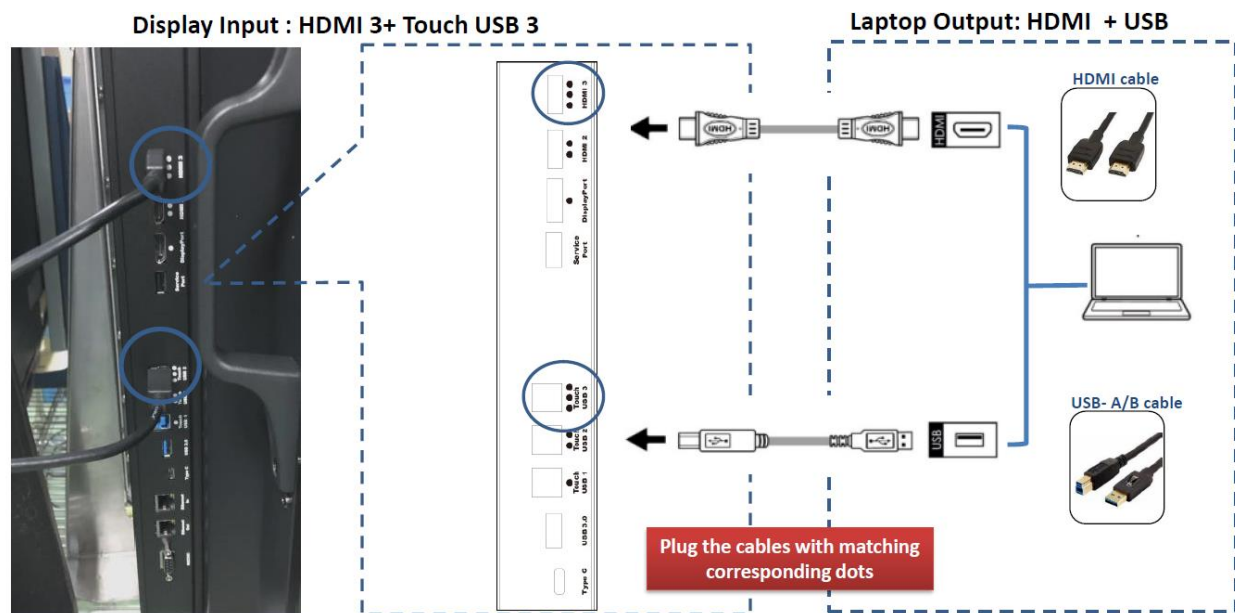
**Use the cables that arrived with your WCD's accessory pack if possible.*

Connection Setup

Listed on the following page are a few ways to establish a connection between your computer and the AVW-6555.

The basic principle to keep in mind is that if you use HDMI + USB-B Touch, you must set the correct touch port in Touch Input Mapping (**OSD Menu>ADV Settings>Touch Input Mapping**).

Setup 1 (Recommended)



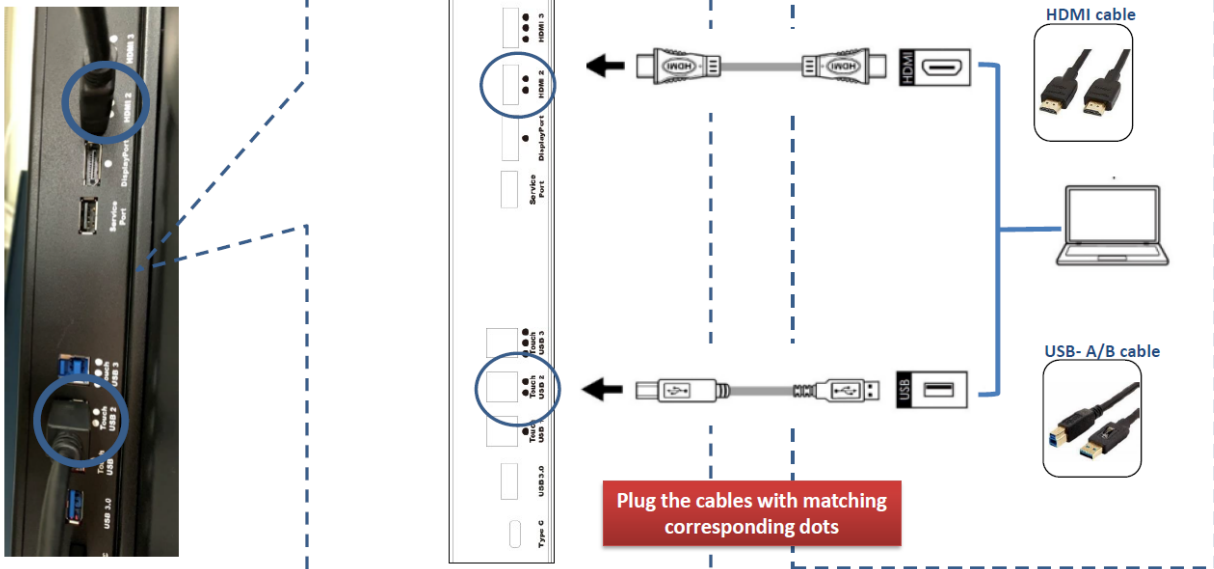
Touch Input Mapping

- Set to **USB Touch 3**

Setup 2

Display Input : HDMI 2+ Touch USB 2

Laptop Output: HDMI + USB



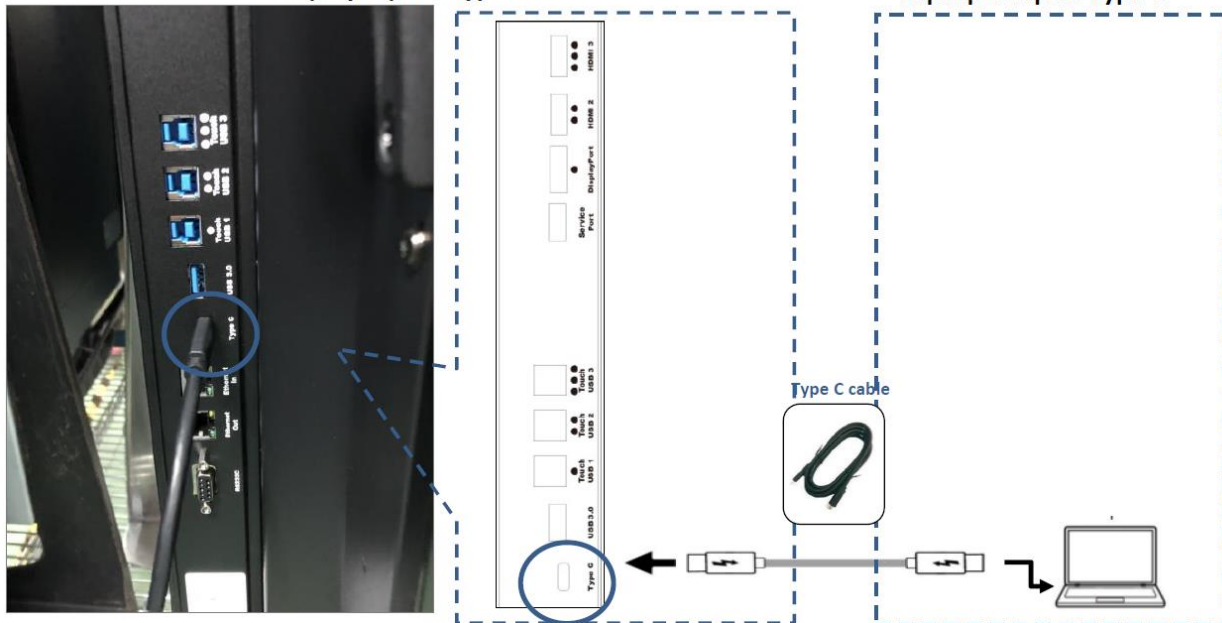
Touch Input Mapping

- Set to **USB Touch 2**

Setup 3

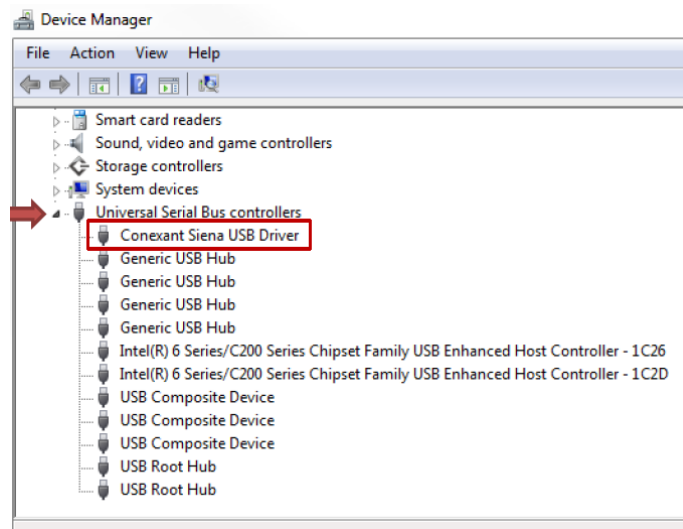
Display Input : Type C

Laptop Output: Type C



Sienna Driver Installation

1. Download [Sienna Driver.zip](#) and extract the files.
2. Open either the **Sienna64** or **Sienna32** folder depending on your operating system type (check Windows 10 **System Properties**).
3. Right-click the **Setup** application and *Run as Administrator* and install.
4. Select "**Conexant Sienna USB Driver**" and click **OK**.
5. Finish the update and click **OK**.
6. You should now be able to see **Conexant Sienna USB Driver** under "Universal Serial Bus Controllers" in Device Manager.



Apply Microphone Firmware Update

1. Download [MicFW.zip](#) and extract the files.
2. Open the folder "**Dura7.76.8.81**" and run **i2c_flash.exe**.
3. A new window will pop up as the firmware is applied.
4. Once complete, **PASS** will appear in the installation window.

```
CAUsers\phank\Desktop\fc\build\i2c_flash.exe

Image file size      : 54000h bytes
partition 0 : Inactive
partition 1 : Active

[#####]
Updating partition 0...
Verify CRC for partition 0...Good
Mark partition 0 as active...
Mark partition 1 as inactive...

Image transfer completed successfully! Download Time : 25055 ms
Device rebooting.....
Device rebooted successfully! Reboot Time : 490 ms
Verify firmware version...Good

#####
##  ##  ##  ##  ##  ##  ##
##  ##  ##  ##  ##  ##
#####
##  #####  ##  ##  ##
##  ##  ##  ##  ##  ##
##  ##  ##  ##  ##  ##

Firmware Downloaded Successfully. Total time : 25752 ms
Press any key to exit
```

MCDP v11.116.9 for IoT/B & AD/B

Tools Required

- MCDP2900.zip
- Windows 10 or Windows 7 PC
 - Must have DisplayPort and Type C port
- DisplayPort cable*
- USB-C cable*

**Use the cables that arrived with your WCD's accessory pack if possible.*

Connection Setup

This update needs to be applied to **both** the Type C Port (IoT) and the DisplayPort (AD) of the AVW-6555. Hence, the below process needs to be *carried out twice*. First, connected to the Type C port, and second, connected via DisplayPort. Ensure that a stable connection is made before attempting to apply the firmware update.

Apply the Firmware Update

1. Download MCDP2900.zip
2. Extract files
3. Open Folder
4. Run *PumaAuxisISPTool.exe*
5. Check *Status* and ensure you are connected
6. Press *Browse* and select the firmware file *MCDP2900_C14_V11.116.009_Payload.bin*.
7. Press *Start*.
8. After the update completes, turn the AVW-6555's Main Power Switch Off, and then back on again.

Troubleshooting

Run through each step until something works. Call us at Avocor Technical Support if you still can't get it to work after trying these steps.

- If Status (5.) is "*Not Connected*" ...
 1. Restart the application
 2. Restart the computer
 3. Try a different cable
 4. Try a different model of PC
- If the update (7.) fails...
 1. Restart the application
 2. Consult your Avocor technical support specialist.