

# Connecting 2 Audio Interfaces via ADAT Lightpipe

In this example, the Fireface UCX is the Master unit and the Fireface 400 is the Slave.

- Connect the Fireface UCX to the PC via USB or Firewire
- Connect the Fireface 400 via Firewire

## ASIO Control Panels

The ASIO panels for both units are shown in [Figure 1-1](#).

- Set the Master unit **Output Format - Optical** to ADAT
- Set the Slave unit **Output Format - Optical** to ADAT and set the Clock Source to ADAT
- Since the default level setting of the Fireface UCX is +4dBu, the Fireface 400 level should be set to +4dBu as well

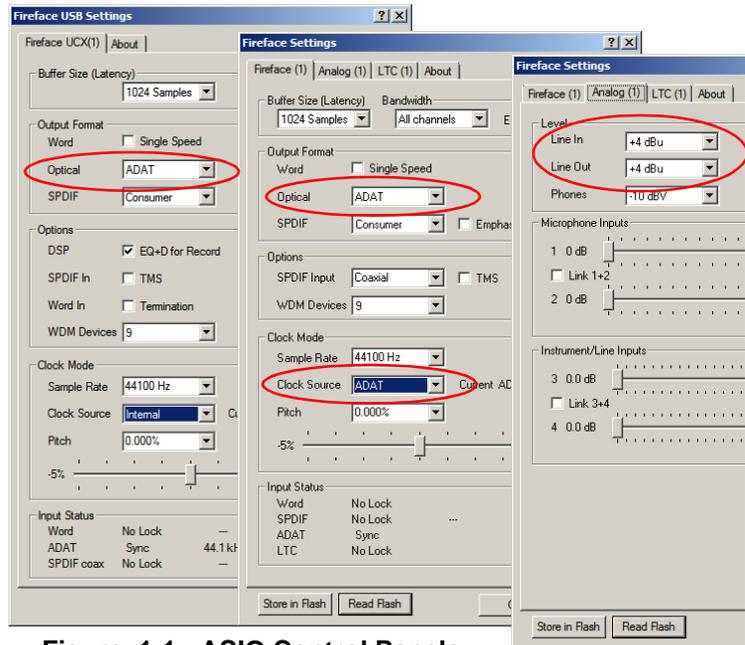


Figure 1-1: ASIO Control Panels

The Vp levels in the Hardware Editor are dependent on these settings.

See [SoundCheck Hardware Editor on page 3](#).

## Mixer Settings

Open the Fireface mixer. The latest mixer will allow you to click in the upper right corner to toggle between UCX mixer and FF400 mixer.

Expand the mixer so you can see all the channels.



Figure 1-2: Fireface UCX Mixer

## Fireface UCX Matrix

Click the Function tab to change to the Matrix screen.

No changes needed to the matrix for the UCX.

The matrix should be set as shown in [Figure 1-3](#).



Figure 1-3: Fireface UCX Matrix

## Slave Unit Settings

Connect Slave interface to the Master unit via ADAT Lightpipe:

- Slave Output to Master Input
- Slave Input to Master Output

The Slave unit must be connected to the PC via USB or Firewire in order to have access to its mixer/matrix settings.

Once the changes are made, you can disconnect the Slave unit from the PC. It will remember the settings when it is powered off.

The Slave unit will receive its clock synchronization via ADAT optical.

## Channel Setup

Open the Wrench button on each Hardware Input and Hardware Output channel and turn off the Stereo button.

The tracks will split into individual Mono channels.

This should be done for channels AN1/2 to AN7/8.

This allow you to set the Matrix to the new mapping required for connection via ADAT optical.

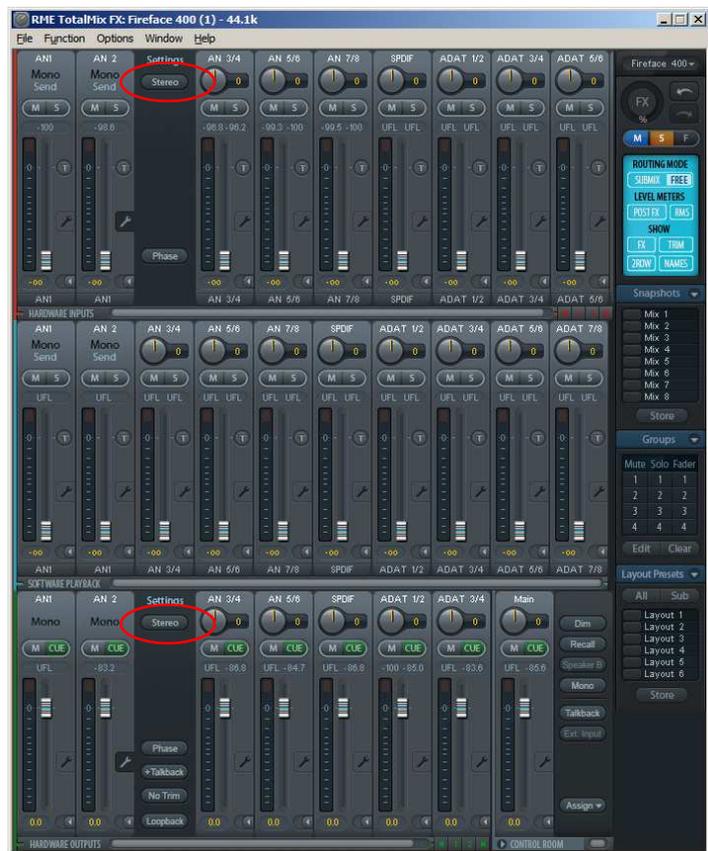


Figure 1-4: Fireface 400 Mixer

## Fireface 400 Matrix

Click the Function tab to change to the Matrix screen.

Set the matrix as shown in [Figure 1-5](#).

All of these settings can be saved for the combination of the Master and Slave units.

Click on File and select “**Save Workspace As**”.

In this case, “**FF UCX Master FF400 Slave**” was created.

This file can be loaded when needed to update the mixer or matrix settings.



Figure 1-5: Fireface 400 Matrix

## SoundCheck Hardware Editor

The SoundCheck Hardware Editor can be set as shown in [Figure 1-6](#).

Input and Output channels 9 thru 16 are the ADAT channels from the Slave unit.

The Vp values from the individual calibration sheets for the two device can be used.

Note that the latency value is different for the two units.

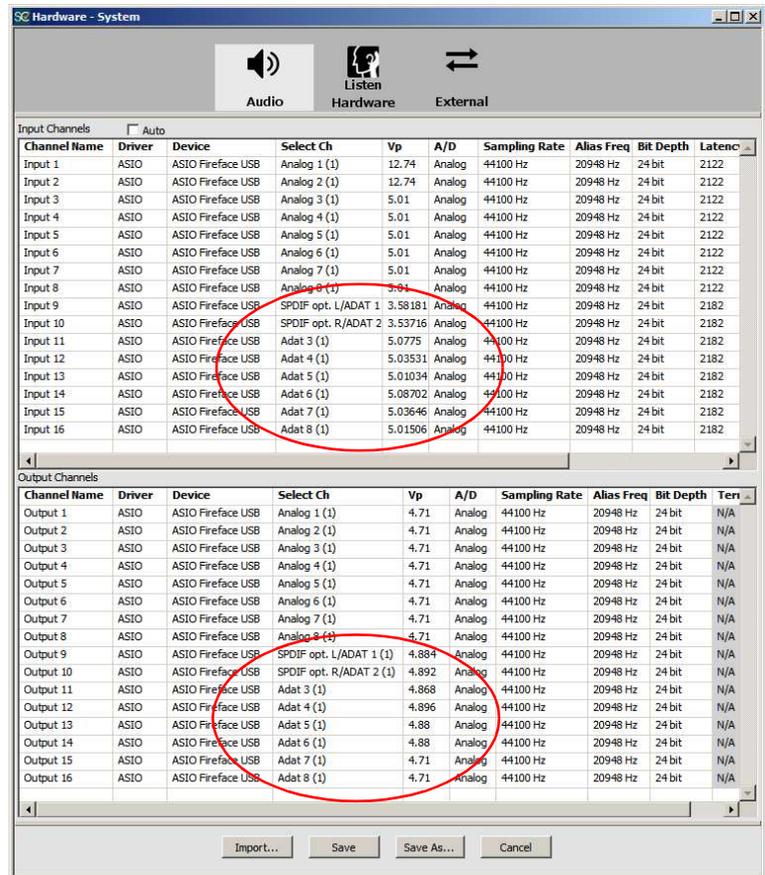


Figure 1-6: SoundCheck Hardware Editor