

Yamaha DM1000/Nuendo  
Setup and Control

# NUENDO<sub>2</sub>

MEDIA PRODUCTION SYSTEM



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# Operations

## Configuring Windows Computers

1. Connect your PC.

The DM1000 should be connected to your Windows PC by connecting the TO HOST USB port to a USB port on your PC.

2. Install Drivers.

Once your PC is connected, you'll need to install the TO HOST USB drivers included on the DM1000 CD-ROM.

Or check for updated drivers at: [www.yamahaproaudio.com](http://www.yamahaproaudio.com)

## Configuring Macintosh Computers

1. Connect your Macintosh.

The DM1000 should be connected to your computer by connecting the TO HOST USB port to a USB port on your Mac.

For OS X:

2. Install Drivers.

Once your Mac is connected, install the YAMAHA USB-MIDI driver for Macintosh OS X. This driver can be downloaded from the Yamaha website:

[www.yamahaproaudio.com](http://www.yamahaproaudio.com)

For OS 9:

2. Install OMS.

The DM1000 communicates with Nuendo via OMS (Open Music System) software. If you already have OMS installed on your Mac, there's no need to install it again and you can move on to the next section. If you don't already have OMS installed, it's included on the DM1000 CD-ROM. Refer to the OMS documentation included on the DM1000 CD-ROM for more information on installing.

3. Install Yamaha USB MIDI driver 1.04 or later.

This is included on the DM1000 CD-ROM. See the user manual documentation for more information.

4. Configuring OMS.

Launch OMS Setup and configure OMS as necessary. An OMS-compatible device profile for the DM1000 is included on the DM1000 CD-ROM. See the included documentation for more information.

## Configuring the DM1000

1. Use the DISPLAY ACCESS [SETUP] button to locate the MIDI/HOST Setup page, and specify the port to which Nuendo (the DAW) is connected.

For simplicity, you can choose USB ports 1-2. See "MIDI Port Setup" (page 236) in the DM1000 manual for more information.

2. Use the DISPLAY ACCESS [REMOTE] button to locate the Remote pages, and assign Nuendo to a Remote Layer.

See "Remote Control", chapter 17 in the DM1000 manual for more information.

3. Use the LAYER [REMOTE 1] or [REMOTE 2] button to select the Nuendo Remote Layer.

When the Nuendo Remote Layer is selected, the DM1000's control surface controls Nuendo, not the DM1000. In order to control the DM1000, you need to select an Input Channel Layer or the Master Layer. Audio mixing on the Input and Master Layers, and Automix continues while the Nuendo Remote Layer is selected.

## Configuring Nuendo for Windows

1. V1.5.3 or higher is required.
2. Click on 'Devices' and then 'Device Setup'.
3. Click on 'Add/Remove', highlight 'Yamaha DM2000' and click 'Add'. DM2000 works in a similar way to DM1000 in this case.
4. Click 'Add' one more time so that two 'Yamaha DM2000' devices appear in the left column.
5. Click on 'Setup'. Highlight 'Yamaha DM2000' in the left column, and choose 'YAMAHA USB IN 0-1' from the drop down menu for MIDI input. Also, choose 'YAMAHA USB OUT 0-1' from the drop down menu for MIDI Output. Click 'Apply' towards the bottom of the Device Setup box.
6. Highlight 'Yamaha DM2000 2' in the left column, and choose 'YAMAHA USB IN 0-2' and 'YAMAHA USB OUT 0-2'. Click 'Apply'.
7. Choosing USB in/out ports 1-2 here assumes you also chose USB ports 1-2 in the DM1000 MIDI/HOST Setup. If you chose different ports in the MIDI/HOST, then you must choose the corresponding port numbers in the Nuendo Device Setup.

## Configuring Nuendo for Macintosh

1. V1.5.3 or higher is required.
2. Click on 'Devices' and then 'Device Setup'.
3. Click on 'Add/Remove', highlight 'Yamaha DM2000' and click 'Add'. DM2000 works in a similar way to DM1000 in this case.
4. Click 'Add' one more time so that two 'Yamaha DM2000' devices appear in the left column.
5. Click on 'Setup'. Highlight 'Yamaha DM2000' in the left column, and choose 'Yamaha DM2000 Port 1' from the drop down menu for MIDI input. Also, choose 'Yamaha DM2000 Port 1' from the drop down menu for MIDI Output. Click 'Apply' towards the bottom of the Device Setup box.
6. Highlight 'Yamaha DM2000 2' in the left column, and choose 'Yamaha DM2000 Port 2' and 'Yamaha DM2000 Port 2'. Click 'Apply'.
7. Click OK.

Choosing USB in/out ports 1-2 here assumes you also chose USB ports 1-2 in the DM1000 MIDI/HOST Setup. If you chose different ports in the MIDI/HOST, then you must choose the corresponding port numbers in the Nuendo Device Setup.

## Controlling Nuendo

### Input Channel Controls

Faders 1-16 control the levels of Nuendo channels 1-16. Refer to the User Defined Keys description below for information about accessing Nuendo channels beyond 1-16.

The first four characters of the names of the Nuendo channels appear in the LCD display when the CHANNEL display is selected with the F3 display page switch. Also PAN position is displayed here and can be adjusted with the channels' rotary encoders. A black dot above the channel name indicates when the pan position is in the centre.

DM1000's ON switches control Nuendo's channel MUTES and the SOLO and SEL switches also control Nuendo's corresponding functions. By pressing the DM1000's AUTO switch (above the STEREO Master fader), it changes the mode of the input channel SEL switches to control Nuendo's Automation Read and Write functions.

By changing the DM1000's ENCODER MODE to AUX, Nuendo's SENDS can be controlled. You can select Sends 1-5 with the DM1000's AUX SELECT switches. Then the channel rotary encoders can adjust send level (this can be seen in the LCD CHANNEL display) and send ON/OFF. When the send is Pre Fade, a small black dot appears above the channel name in the LCD display. You cannot control Nuendo's sends 6-8 from DM1000.

## **EQ Functions**

These are controlled by the DM1000's DATA wheel, cursor keys and ENTER button. The parameter values can be seen on the LCD screen, once the INSERT display is chosen by pressing the F2 display page switch. To switch on or off an EQ band, move the cursor onto the bottom-left display parameter and press the ENTER button on DM1000. Turning the DATA wheel while the cursor is on the second parameter from the left will control the Gain, the third parameter from the left controls frequency and the far right parameter controls Q-factor. The Tab-left and Tab-right switches below the LCD display can be used to scroll through the EQ bands: Low, Low-Mid, Hi-Mid or Hi.

## **Meters**

The DM1000's meter bridge (if fitted) displays Nuendo's input channel levels when the REMOTE layer is selected. The Meter Bridge and the LCD displays the Time Code COUNTER. The mode (code/Feet/Beats/Seconds) is shown only on the LCD. (If "16mm or 35mm Film" is selected in Nuendo, then the DM1000 will display "Feet". If "Seconds" or "Samples" is selected in Nuendo, then the DM1000 will not display any selection). If METER is selected by the F4 display page switch, then the level meters can be viewed on the LCD screen. This is useful if the meter bridge option is not fitted.

## **User defined keys**

On DM1000, the User Defined keys can be programmed to control different DAW functions. User Defined banks E and F are pre-set from the factory to be used for DAW remote control. They work even if a REMOTE layer is not selected, so you can control the transport of Nuendo while mixing on the DM1000 input channel layers (for example). Some of the DAW functions do not work with Nuendo. Here is a list of those which do work:

- DAW PLAY, STOP, REC, REW, FF, RTZ, LOOP all control the corresponding transport functions;
- DAW REC/RDY X switches channel 'X' into Record Ready mode;
- DAW BANK + and BANK - shifts the channels controlled by DM1000 up or down in banks of 8 channels. (For example, pressing BANK + once will show channels 9-24 on DM1000 instead of channels 1-16);
- DAW CHANNEL + and CHANNEL - shifts the channels controlled by DM1000 up or down, one channel at a time. (For example, pressing CHANNEL + once will show channels 2-17 on DM1000 instead of channels 1-16).
- DAW WIN TRANSPORT opens the VST Channel Settings display window for the selected Nuendo channel.
- DAW WIN MIX/EDIT opens the VST mixer display window.
- DAW SAVE saves the current Nuendo project.