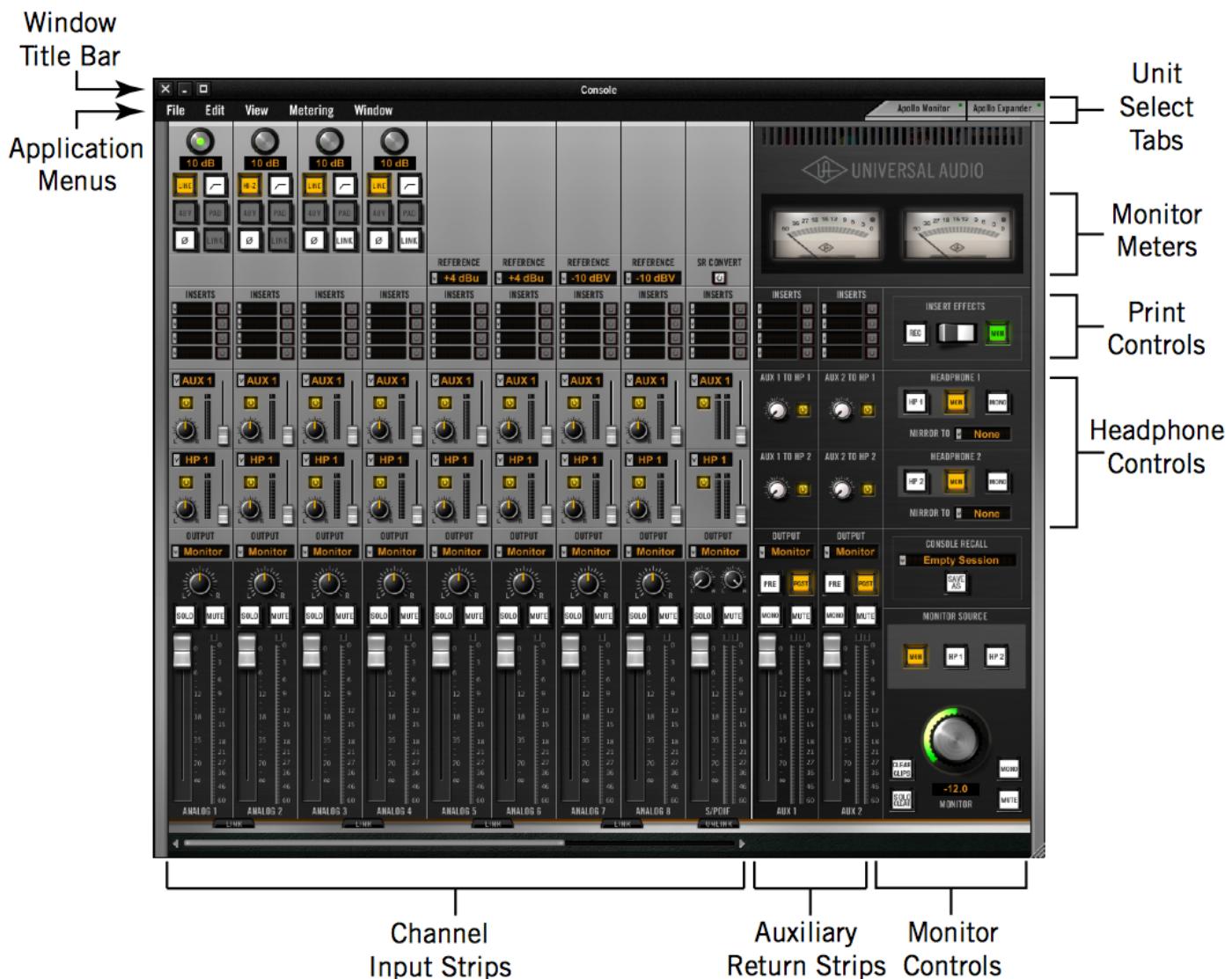


Studio D/E User's Guide

Studio D and E offer eight-channel surround playback as well as recording and playback from both Macintosh and Linux computers. The studios feature Yamaha DM-1000 mixers that allow microphone and line inputs to be routed for recording and playback that can be sent to the loudspeakers. Mac recording and playback is achieved through a Universal Audio Apollo eight channel interface that allows UA plug-ins to be run on input as well as during mixing. There is also a PreSonus 1818VSL interface that connects to user laptops through USB that can be routed through the mixer to allow recording on either the Mac or Linux systems. Linux computer also connects to the mixer through ADAT lightpipe connections. Sample rates are limited to 48 kHz with the lightpipe connection.

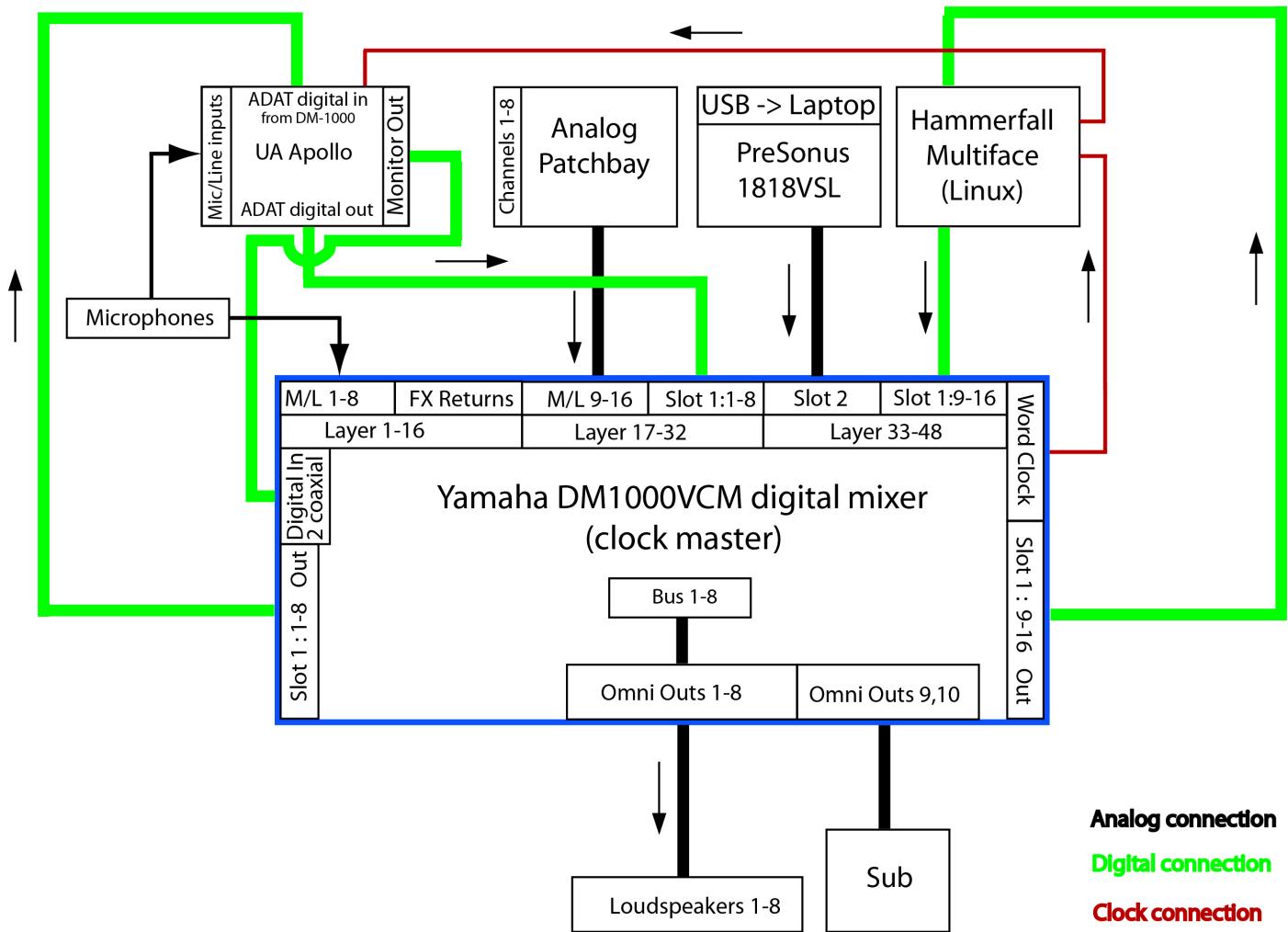
The Apollo hardware is controlled by the UA application Console. Console is a virtual mixing console that controls the UA hardware and runs simultaneously with whichever recording program you use. It allows channels to be routed to the DAW, both from the Apollo built-in microphone and line inputs and from the DM-1000 mixer via ADAT lightpipe input channels. Console also allows UA plug-ins to be installed in the virtual mixer, so that they can be used to process signals before they are sent to the recording program. This system is a bit complicated, so attention to the routing features of Console and whichever recording program you use is necessary.



Apollo's Console mixer window and controls layout

Presets on the DM-1000 select the mixer setup necessary for each of the recording interfaces. Routing must also be set within the Console program for recording through the Apollo interface, while the PreSonus interface routing is handled via the DM-1000. In order to use the Console application, you will need to read the Apollo Software Manual in the Universal Audio folder in Applications.

Studio D/E diagram



Studio D/E connection diagram

The Apollo is the interface for multi-track Macintosh recording programs. Its inputs may be the four internal mic preamps (on the front panel of the rack), hi-Z inputs for electronic instruments, or the four line inputs as accessed through the remote inputs in the rack. Eight channel input is also possible from the mixer via the ADAT lightpipe digital connection to slot 1:1-8. If you use the mixer digital connection, be sure the Apollo is set to external clock and the mixer is set to the desired sample rate – 44.1 or 48 kHz.

Connection from user laptops is possible via USB to the PreSonus 1818VSL, which connects via analog to the slot 2 input to the mixer. The mixer can be used to route these inputs to the speakers or to a recording system. Inputs from Linux are achieved through the Hammerfall Multiface interface via ADAT lightpipe slot 1:9-16.