# Configuring Apple Logic with ZED-R16

This document describes how to configure Apple Logic to work with the ZED-R16.

The following step by step procedures refer to Logic 9. A similar procedure should apply for other versions of Logic.

NOTE: As of version 3.5.5 the FireWire driver has been renamed from 'ZEDDICE' to 'Allen and Heath Firewire'.

Before starting

⇒   Ensure the Allen & Heath Firewire driver is installed on your system and up to date. Please read the Driver Installation / Firewire Control Pannel V3.5.x guides for details regarding installation and understanding of the Control Panel.

⇒   Ensure the ZED-R16 is powered on and the Firewire cable is connected from the computer to either port on the ZED-R16 Firewire interface.

⇒   Check that your computer has recognized the connection of the ZED-R16 Firewire device by opening the Allen & Heath Firewire Control Panel.
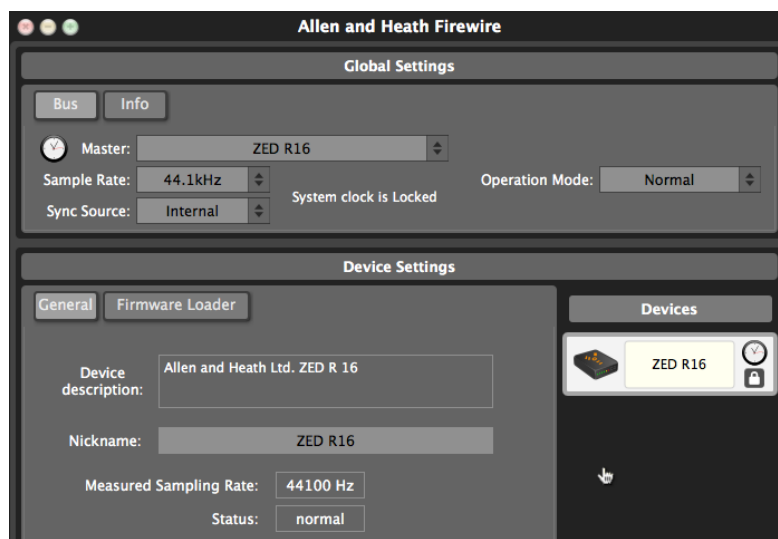
Audio routing

⇒   Launch Logic and close any open session.

⇒   Click on 'Preferences/Audio...'. Open the 'Devices' tab, ensure 'Core Audio' is enabled and 'Allen and Heath Firewire' is selected as the Input and Output device. Set the Buffer Size according to your preference, then close the Preferences window.
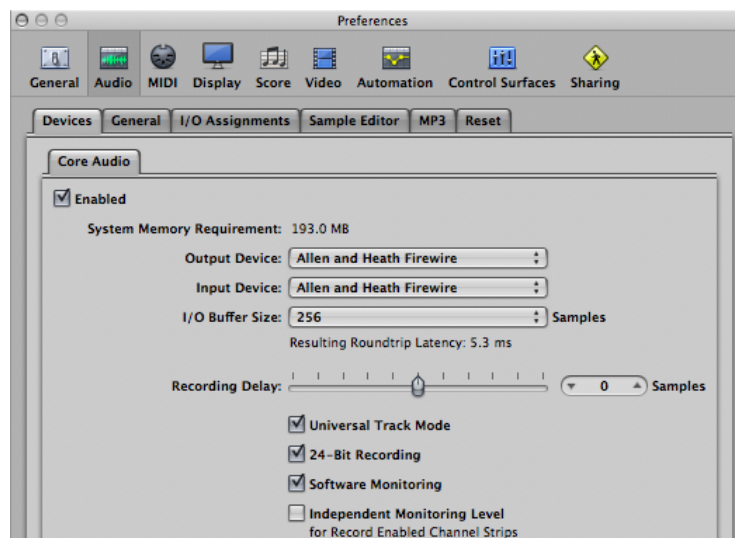
Configuring Apple Logic with ZED-R16

⇒ If you are not familiar with Logic, you may use one of the **ZED-R16 Logic templates** as a starting point and skip to the 'MIDI control' section (page 4). Click 'File/Open…' and open the desired template project. *Please note MIDI settings are stored in the host application, not in the project. Follow the instructions in the next sections to setup MIDI control.*

<div style="border: 2px solid red; padding: 10px;">

ZED-R16 Logic templates

- Both projects have 24 mono tracks sourced from the ZED-R Mono Input Channels and ADAT Port 1, and a stereo track sourced from the ZED-R Main LR.

- In the standard version, all tracks are routed to the corresponding ZED-R channel. Enable the Digital Return on the ZED-R Input Channels and arm the Main LR track to record the analogue mixdown out of the desk.

- In the version marked '**In The Box**', all tracks are routed to a master bus in Logic - this is patched to Output 17 & 18. Use ZED-R16 'Digital Master to LR' button and 'Digital Master Input' rotary control to monitor the DAW mix.

</div>

⇒ To start from a blank project, click 'File > New' and select 'Empty Project'. The New Tracks window will open automatically.

⇒ Enter '16' as the Number of tracks, 'Audio' as the Type, 'Mono' as the Format, select 'Input > Input 1' as the Input and 'Output > Mono > Output 1' as the Output. Tick both 'Ascending' option boxes, then click 'Create'.
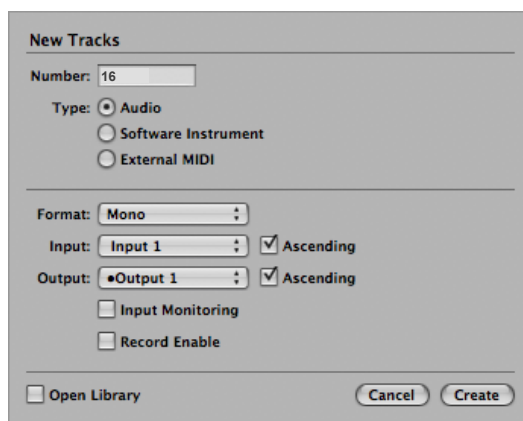
⇒ Click on the 'Settings' icon and select 'Audio'. Set your desired sample rate and close the Project Settings window.
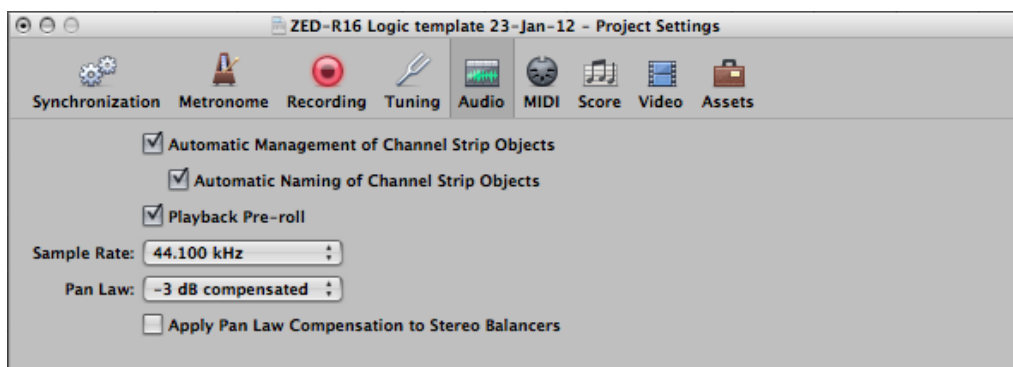
⇒ Logic automatically assigns inputs and outputs when new tracks are created. Each track will be sourced from and routed to the corresponding ZED-R channel. If any audio is present on a ZED-R16 Mono Input Channel, click the corresponding 'R' button in Logic to arm the track and monitor the input signal on the meter.

⇒ If any audio is present on a given track, start Playback in Logic and enable the Digital Return in the corresponding ZED-R channel to monitor the signal. Please read the ZED-R16 User Guide for detailed information regarding the routing options.

Configuring Apple Logic with ZED-R16

⇒ To set a different **source** for a given track, select the track, click and hold on 'Input' in the track inspector under I/O, then hover over 'Input' and release to select the required input (for example 'Input 1' for Track 1).
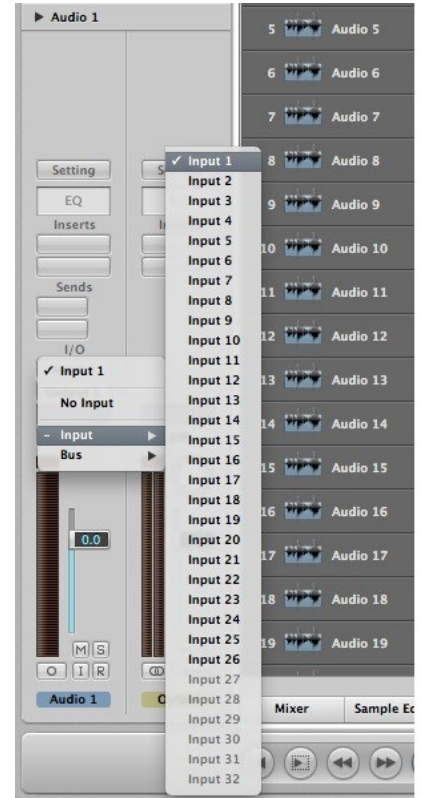
⇒ To set a different **routing** for a given track, select the track, click and hold on 'Output' in the track inspector under I/O, then hover over 'Output' and release to select the required mono / stereo output or bus. This is likely to be either the corresponding ZED-R channel or a master bus in Logic.

⇒ To create a **master bus** in Logic, set the tracks output to an available bus (for example Bus 1). An Aux channel strip will appear in the mixer view and in the track inspector. You can rename the Aux strip (for example to 'Logic LR').

⇒ Click and hold on 'Output' in the Aux strip, then hover over 'Output' and release to select 'Output 17-18'. Use ZED-R16 'Digital Master to LR' button and rotary control to monitor the DAW mix.

Configuring Apple Logic with ZED-R16

MIDI Control

The default set of MIDI data messages used by the ZED-R16 can be mapped or learned by Digital Audio Workstation (DAW) software. MIDI data coming from the ZED-R16 is tunnelled over the Firewire cable and 'Allen & Heath Firewire' will appear as a MIDI device.

If you are not using Firewire, you can still use the MIDI features of the ZED-R16 by connecting standard MIDI DIN cables to a third party MIDI interface. Many soundcards come equipped with MIDI ports as standard.

Assigning MIDI

The ZED-R16 MIDI code can be mapped directly into Logic.

⇒ Set the ZED-R16 Transport to send MMC out - hold down the 'Rec' button at power up, let go and then hold down button '1' then let go. Next simultaneously hold down button '1' and 'Rec' for two seconds, release both buttons and power the mixer off and on again.

Note: The Transport MMC/NOTE ON/OFF functionality is only available for desks with serial number ZR16X-215306 or higher. For desks with lower serial numbers the Transport buttons will output MMC only.

⇒ Launch Logic. With your project open select the Mixer Tab at bottom of the screen (above the Transport controls).

⇒ Click on the 'Preferences' icon and select 'Controller Assignments'. In the Controller Assignments window click 'Learn Mode' then click on the parameter you wish to control (fader, pan, solo, mute), and move the MIDI controller on the mixer. A box should appear with the message 'Assignment Learned'.
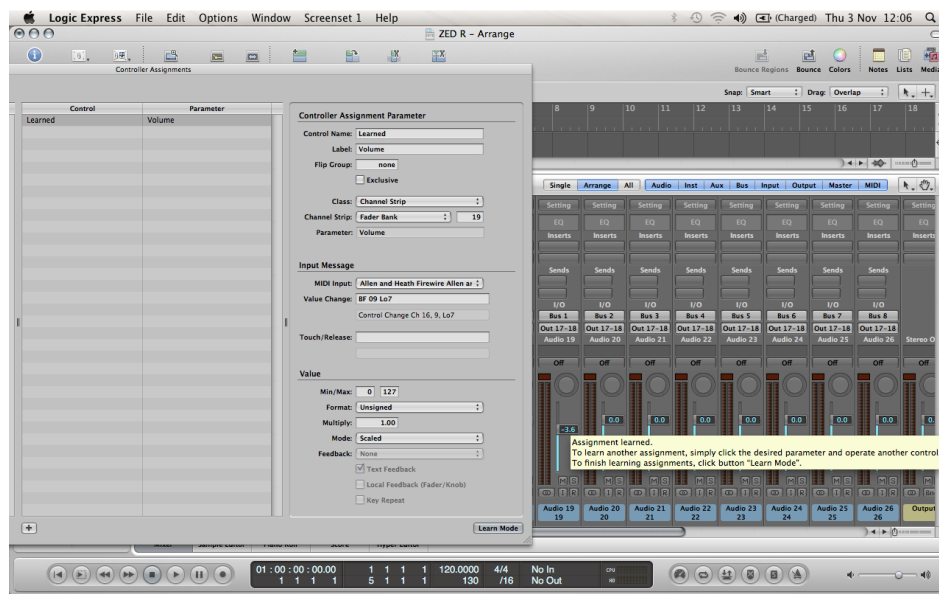

⇒ To learn another assignment, simply click the desired parameter and operate another controller.

⇒ An example setup would be to assign Faders 1-16 to Logic tracks 1-16, MIDI faders 1-4 to Aux or master strips in Logic, MIDI pots 1-12 to Logic track pans 1-12 or your favourite plug-in parameters.

⇒ When assigning MIDI switches, after the assignment is learned you must set 'Toggle' in the Mode dropdown box before clicking the next parameter.
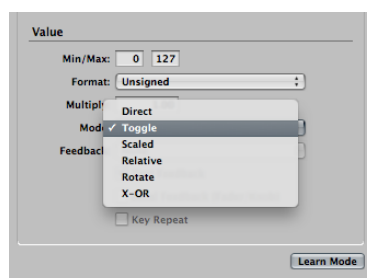
Configuring Apple Logic with ZED-R16

⇒ Click 'Learning Mode' again when all controls are assigned. Check all MIDI functions are working, then close the window.

⇒ To synchronize the ZED-R16 Transport buttons to Logic, click 'Settings', 'Synchronization' and select the 'MIDI' tab. Enable the 'Listen to MMC Input' option box.
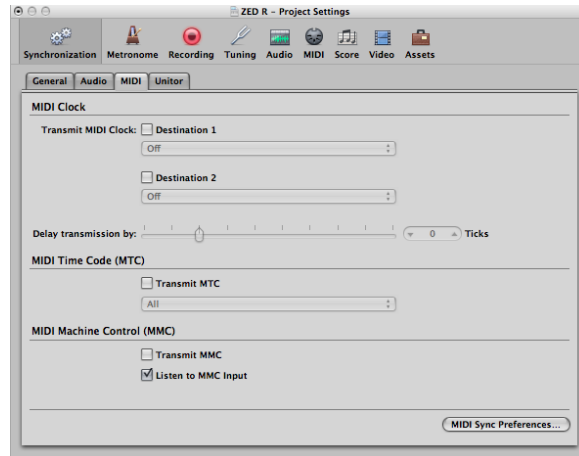
⇒ You may also need to reset MIDI - this can be done by clicking on the 'Preferences' Icon, selecting 'MIDI', 'General', then 'Reset All MIDI Drivers'.