ZOOM®

TAC-8 MixEfx

Introduction

TAC-8 MixEfx is a mixer application designed specifically for the ZOOM TAC-8.

Using a computer, you can make settings for the built-in mixer and for the high-quality monitoring effects.

Functions include LO CUT, PHASE reversal and AUTO GAIN, which automatically detects input signal levels.

Other functions are LOOPBACK, which sends the input signal and computer signal back to the computer, and MEMORY, which allows you to save settings with one touch.

Installing and Launching **TAC-8 MixEfx**

1. Download **TAC-8 MixEfx** to the computer

Download the application from the ZOOM website (http://www.zoom.co.jp/downloads).

HINT
• You can download the latest ZOOM **TAC-8 MixEfx** from the above website.
• The supported operating systems are as follows.   Mac OS X 10.8.5 (or later)

2. Install **TAC-8 MixEfx** on the computer

Click the "TAC-8 MixEfx Installer.pkg" icon and follow the instructions to install **TAC-8 MixEfx**.

3. Launch **TAC-8 MixEfx**

When you connect a **TAC-8** to the computer using a Thunderbolt™ cable, **TAC-8 MixEfx** will launch automatically.

HINT
• See the **TAC-8** and computer operation manuals for instructions about connecting them.
• If it does not launch automatically, open [TAC-8 MixEfx] from the Applications folder on the computer.

Names of Parts/Basic Operations

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Setting the built-in
mixer for each output
jack
P.7

Checking computer settings/
Using the loopback function/
Selecting the clock source
P.6

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Basic operations

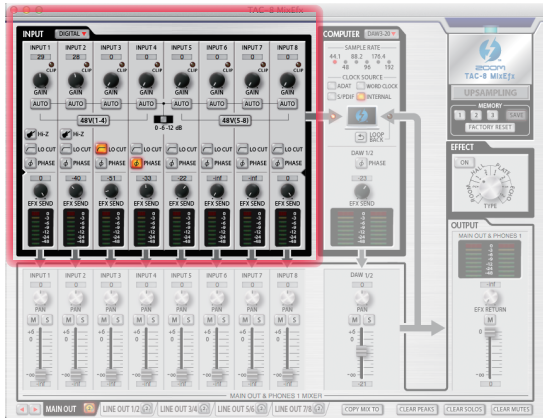- Click a knob and drag up or down to adjust it.
- Press the shift key while moving a knob to make fine adjustments.
- Click a knob value to allow direct entry of the value.
- Click a button to turn it on/off.
- To change the sampling rate, open the Utilities folder in the Applications folder and double-click the Audio MIDI Setup application. Select TAC-8 in the application and set the sampling rate.

TAC-8 Mixer Block Diagram

EFFECT

REVERB & DELAY

OUTPUT

EFX RETURN

LEVEL METER

FADER

LoopBack L
LoopBack R

VOLUME

PHONES1
MAIN OUT L
MAIN OUT R

48V

EFX SEND

PEAK METER LO CUT PHASE

LEVEL METER

INPUT1
INPUT2
INPUT3
INPUT4
INPUT5
INPUT6
INPUT7
INPUT8

Gain AD

LoopBack L
LoopBack Switch
LoopBack R

EFX SEND

LEVEL METER PHASE

FADER PAN

VOLUME

SWITCHER

PHONES2
LINE OUT 1
LINE OUT 2
LINE OUT 3
LINE OUT 4
LINE OUT 5
LINE OUT 6
LINE OUT 7
LINE OUT 8
S/PDIF OUT

ADAT OUT

INPUT1
INPUT2
INPUT3
INPUT4
INPUT5
INPUT6
INPUT7
INPUT8

S/PDIF IN

S/PDIF L/R

ADAT1
ADAT2
ADAT3
ADAT4
ADAT5
ADAT6
ADAT7
ADAT8

ADAT IN

COMPUTER

INPUT1
INPUT2
INPUT3
INPUT4
INPUT5
INPUT6
INPUT7
INPUT8
S/PDIF L
S/PDIF R
ADAT1
ADAT2
ADAT3
ADAT4
ADAT5
ADAT6
ADAT7
ADAT8

INPUT

MIXER

1/2 3/4 5/6 7/8 L/R   1~8
ANALOG   S/PDIF   ADAT

To Computer

1/2 3/4 5/6 7/8 9/10 11/12 13/14 15/16 17/18 19/20

From Computer

MAIN OUTPUT+PHONES1
LINE OUTPUT1/2
LINE OUTPUT3/4
LINE OUTPUT5/6
LINE OUTPUT7/8
S/PDIF OUT
ADAT OUT1/2
ADAT OUT3/4
ADAT OUT5/6
ADAT OUT7/8

— 4 —

Setting the Inputs (INPUT)

Showing the digital inputs

Click the DIGITAL button to show the digital inputs.
The screen will open to the right and show S/PDIF and ADAT 1 – ADAT 8.

Adjusting the input gain

Turn the GAIN knob to adjust the input gain so that it does not cause the CLIP indicator to light.

> **NOTE**
> • If you adjust a **TAC-8** GAIN knob, the corresponding **TAC-8 MixEfx** input gain setting will also change automatically.

Adjusting the gain automatically (INPUT 1–8 only)

To set the optimal gain level automatically, click the AUTO button and input the audio signal.

■ Setting the automatic gain

1. Select the maximum recording level.
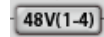
2. Enable the automatic gain setting.   **Click**

3. Input the audio signal.

4. Complete the setting.   **Click again**

> **HINT**
> • If there is no input for about three seconds, the button will blink more rapidly and the setting will complete automatically.
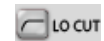
Using phantom power

Click the 48V(1-4) or 48V(5-8) button so that it lights.
When the corresponding switch is lit, phantom power is supplied to INPUTS 1–4 or INPUTS 5–8 at the same time.

Using the Hi-Z function (INPUTS 1–2 only)

Click the Hi-Z button so that it lights.

Enabling the lo-cut filter

Click the LO CUT button so that it lights.
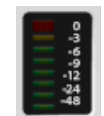The cutoff frequency is 80 Hz.

Reversing the polarity

Click the PHASE button so that it lights.

Adjusting the effect level

Turn the EFX SEND knob to adjust the effect level.
Double-click to set it to –inf. (See "Adjusting the effect" on P.9.)

Checking input levels

Check the level meters to see the input levels.
If a level exceeds 0 dB (maximum value), the top of the meter will light red. Click the meter to turn off this indicator.

Expanding the COMPUTER section

To expand the COMPUTER section, click the DAW3-20 button.
The screen will open to the right and show DAW3/4 – DAW19/20.

Checking the sampling rate

Check the sampling rate.
The lit indicator shows the sampling rate that the TAC-8 is using.

NOTE
When the sampling rate shown is 88.2 or 96, ADAT 5–8 cannot be used. When it is 176.4 or 192, ADAT 3–8 cannot be used.

Setting the clock source

Select the clock source to use for synchronizing signals.
Click the INTERNAL, ADAT, S/PDIF or WORD CLOCK button so that it lights.

NOTE
If synchronization with an external digital device is not possible, the CLOCK SOURCE indicator will blink.
In this case, the TAC-8 will operate using its internal clock.

Sending the mixed signal to the computer

All the TAC-8 inputs and computer inputs can be mixed and sent back to the computer.
When you want to record the final mixed signal, press the LOOP-BACK button so that it lights.

NOTE
• The LOOPBACK function only works for the MAIN OUTPUT mixer.
• This signal is sent to the computer as INPUT1 and INPUT2 .
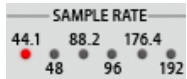
Reversing the phase

Click the PHASE button so that it lights.

Adjusting the effect level

Turn the EFX SEND knob to adjust the effect level.
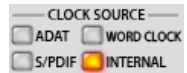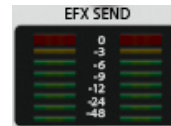Double-click to set it to –inf. (See "Adjusting the effect" on P.9.)

Checking input levels from the computer

Check the level meters to see the input levels from the computer.
If a level exceeds 0 dB (maximum value), the top of the meter will light red.
Click the meter to turn off this indicator.

Using the built-in mixer (MIXER)

The **TAC-8** mixer can be set separately for each output. (See "**TAC-8** Mixer Block Diagram" on page 4.)

For example, different mixes can be output from the MAIN OUT and the LINE OUT 1/2 outputs.
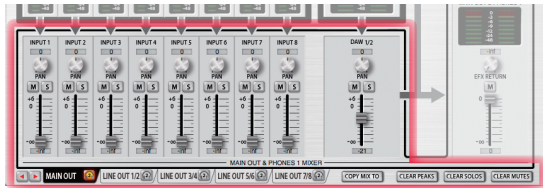
Changing the output jacks

Click an output tab to select it.
If the window is narrow, click ◀▶ to change the shown tabs.

Assigning an output to the HEADPHONE 2 jack

Click the headphone icon on an output tab to assign that output to the HEADPHONE 2 jack.

> **NOTE**
> The MAIN OUT and LINE OUT 1/2–LINE OUT 7/8 can be assigned.

Working with input from S/PDIF and ADAT

Press the INPUT tab DIGITAL button.
The screen will open to the right and show S/PDIF and ADAT 1 – ADAT 8.

Controlling computer channels number 3 and higher

Press the COMPUTER DAW3-20 button.
The screen will open to the right and show DAW3/4 – DAW19/20.

Adjusting the input signal panning

Turn the PAN knob for an input to adjust the panning of that input signal.
Double-click to set it to 0 (center).
At their center positions, INPUT 1–8 and ADAT 1–8 are reduced –3 dB.

Muting the input signals

Input signals can be muted.
Click the M button so that it lights to mute the input.

Soloing one input

All inputs other than the selected are muted.
Click the S button so that it lights to solo the channel.

> **NOTE**
> If both SOLO and MUTE are enabled at the same time, MUTE takes priority.

Adjusting the input signal levels

Drag each input fader to adjust its input signal level.
Double-click to set it to 0 dB.

Copying settings from the currently selected output mixer to another output mixer

You can copy the settings from the currently selected output mixer to another output mixer.
1. Click the COPY MIX TO button next to the output tab.
2. Select the output to receive the settings in the dialog shown, and click the "Copy" button.
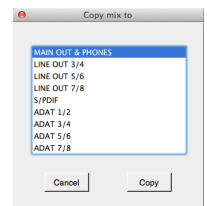
Resetting PEAK, SOLO and MUTE for all channels at once

Click the CLEAR PEAKS, CLEAR SOLOS or CLEAR MUTES button to reset the peak indicators or the solo or mute status for all channels at once.

Setting Output Levels (OUTPUT)

You can set the output level for the channels selected by the OUTPUT tab.
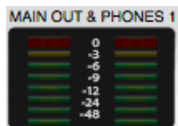
Checking output levels

You can check the OUTPUT/PHONES level with the level meters.
If a level exceeds 0 dB (maximum value), the top of the meter will light red.
Click the meter to turn off this indicator.

Adjusting the effect return level

Turn the EFX RETURN knob to adjust the effect return level mixed into the output.
Double-click to set it to –inf.
(See "Adjusting the effect" on P.9.)

Muting the output signal
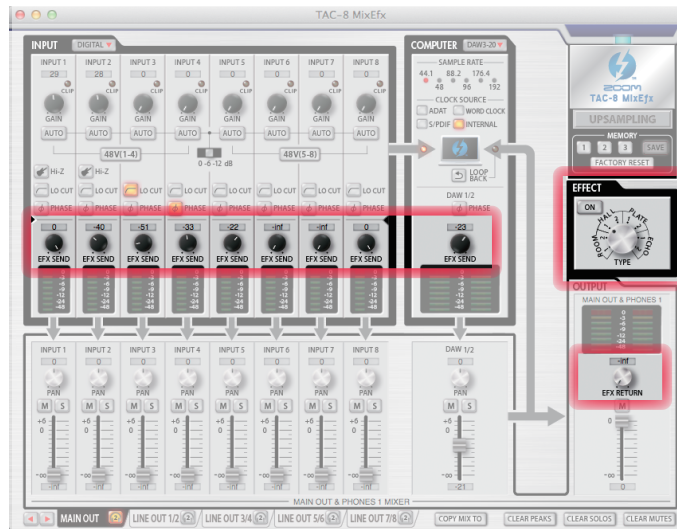
You can mute the output.
Click the M button so that it lights to mute the output.
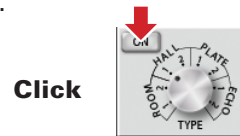
Adjusting the output volume

Drag the fader to adjust the volume.

Using the Effect (EFFECT)

■ Adjusting the effect

1. Turn the effect on.

Click

2. Select the effect.

Turn

3. Adjust the EFX SEND of each input.

Turn

4. Adjust the EFX RETURN of each output.

Turn

■ Effect types

ROOM1	This reverb simulates the reverberations of an echo chamber in a recording studio.
ROOM2	This reverb simulates the reverberations of a concert in a club.
HALL1	This reverb simulates a concert hall with bright reverberations.
HALL2	This reverb simulates a concert hall with muted reverberations.
PLATE1	This simulates a plate reverb with short reflections.
PLATE2	This simulates a plate reverb with long reflections.
ECHO1	This short delay can be used in many situations.
ECHO2	This simulates a tape echo.

NOTE

- The effect and upsampling functions cannot be used at the same time. Turning one on will turn the other off.
- If the upsampling function is on, a confirmation message will appear when the effect is turned on. Click the "Turn the effect ON" button.

Using the Upsampling Function (UPSAMPLING)

Activating the upsampling function

When the original sampling rate is 44.1 kHz or 48 kHz, internal processing can allow operation at 176.4 kHz or 192 kHz.

1. Click the UPSAMPLING button.

Click   UPSAMPLING

This activates the upsampling function.

UPSAMPLING

NOTE
- The upsampling function only works for 44.1/48 kHz.
- The effect and upsampling functions cannot be used at the same time. Turning one on will turn the other off.
- If the effect function is on, a confirmation message will appear when upsampling is turned on. Click the "Turn upsampling ON " button.

Deactivating the upsampling function

1. Click the UPSAMPLING button.

Click   UPSAMPLING

This deactivates the upsampling function.

UPSAMPLING

NOTE
If the effect function is turned on, the upsampling function will be deactivated.

Saving and Loading Settings (MEMORY)

■ Saving settings

1. Start saving the settings.

Click

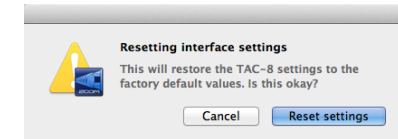2. Select a blinking button to save the settings.

Click

■ Loading settings

1. Load saved settings.

Click

Resetting interface settings

To restore a **TAC-8** to its factory default settings, click the FACTORY RESET button. On the confirmation screen, click "Reset".

Settings saved in **TAC-8 MixEfx** will not be reset.

Saving and Loading Setting Files (SAVE/LOAD)

■ Saving settings

1. Select "Save" from the "File" menu.

> **NOTE**
> After saving settings as a file, select "Save as" to save settings with a different file name.

2. Set the file name and saving location, and save the file.

■ Loading settings

1. Select "Open…" from the "File" menu.
2. Select the settings file and click "Open".
   The settings will be loaded.

> **NOTE**
> Settings saved in the memories will not be changed when a settings file is loaded.
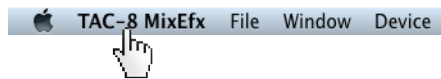
Using the Power Management Function

When the **TAC-8** is on and its STAND ALONE switch is set to ON, it will automatically power off after 10 hours pass. This function can be turned ON/OFF using **TAC-8 MixEfx**.
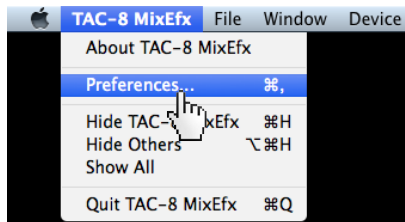
■ Disabling the power management function

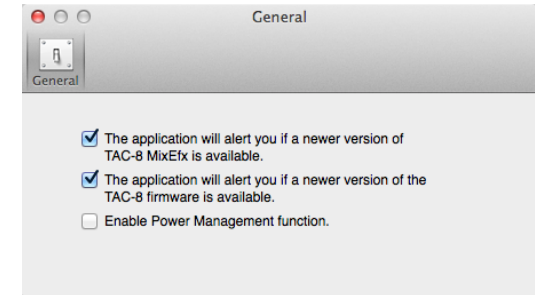1. Select "TAC-8 MixEfx" in the menu bar.

Click

2. Select "Preferences…"

Click

3. Remove the check next to "Enable Power Management function".

HINT
• The power management function is enabled when a check appears next to this item.

Managing Software and Firmware Versions

■ Viewing version information

1. Select [TAC-8 MixEfx] in the menu bar.

Click

2. Select "About TAC-8 MixEfx".

Click

3. Check the version information.

TAC-8 MixEfx
Version.1.0.0.0
Device Version.1.00
Copyright © 2014 ZOOM Corporation All rights reserved.

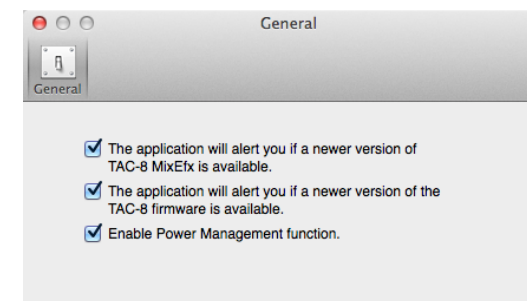| HINT |
| --- |
| • "Version" is the **TAC-8 MixEfx** application version, and "Device Version" is the **TAC-8** hardware unit firmware version. |

■ Setting version update alerts

1. Select [TAC-8 MixEfx] in the menu bar.

Click

2. Select "Preferences…"

Click

3. Enable the version update alerts.

General

☑ The application will alert you if a newer version of TAC-8 MixEfx is available.
☑ The application will alert you if a newer version of the TAC-8 firmware is available.
☑ Enable Power Management function.

HINT
• The alerts are enabled when checked.

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