

**Reference Manual** 



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7-51-0118-A 8/2002

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# Introduction

### Welcome!

Thank you for making the Alesis Faze a part of your studio. Since 1984, we've been designing and building creative tools for the audio community. We believe in our products, because we've heard the results that creative people like you have achieved with them. One of Alesis' goals is to make high-quality studio equipment available to everyone, and this Reference Manual is an important part of that. After all, there's no point in making equipment with all kinds of capabilities if no one explains how to use them. So, we try to write our manuals as carefully as we build our products.

The goal of this manual is to get you the information you need as quickly as possible, with a minimum of hassle. We hope we've achieved that. If not, please drop us an email and give us your suggestions on how we could improve future editions of this manual.

We hope your investment will bring you many years of creative enjoyment and help you achieve your goals.

Sincerely, The people of Alesis For more effective service and product update notices, please register your Faze online at:

www.alesis.com/ support/ warranty.htm

### About the Faze

Your new Faze is a member of the Alesis ModFX family of performance effects boxes. This particular ModFX unit is a high-quality stereo phase shifter.

Each ModFX unit provides a different set of sound effects and signal processing, and they are easy to arrange and connect to each other. With a uniform, friendly, uncomplicated user interface and high-resolution digital processing, the ModFX products are perfect for keyboardists, guitarists, and any other studio or live performance artists.

### Important features of your Faze

### High Resolution Processing

The Faze internally uses 28-bit stereo digital signal processing. The digital-to-analog and analog-to-digital conversion is sampled at 48kHz with 24 bits of resolution. That means you can get the effect you want, without adding unwanted noise and distortion.

#### ModLink

If you're using multiple ModFX boxes to make your own unique effects chain, ModLink makes it easy to hookup without needing patch cords within the chain. The nine-pin connectors built into each side of the case enable a ModFX box to transfer digital audio and word clock directly to another. Any number of units can be connected together.

# Configurable Modulation

The Faze features configurable modulation. The user can control the shape, rate, and depth of the modulation. The rate of modulation can be synchronized to the tempo, both by tap tempo and by audio input.

## **Faze Key Features**

- Digital emulation of classic stereo phaser effects, with five different modulation sources
- Uniform, friendly, uncomplicated user interface—no fiddling with complicated menus or "hidden" knobs
- Tempo synchronization keeps phasing effect in time with the music
- Tap Tempo makes it easy to set the speed of phasing by tapping a beat on the top panel
- Reset Mod lets you reset the phase of any modulation shape from its beginning
- Stereo processing via four 1/4" unbalanced connectors
- ModLink port, a cable-free connection that transfers digital audio and word clock to other boxes in the ModFX family
- · Footswitch connection to control the bypass function
- Ability to mount 3 ModFX boxes in the optional ModFX rack adapter
- Input trim control to adjust input level
- Internal 28-bit digital processing
- 24-bit D/A and A/D conversion at 48kHz sampling rate for quiet, distortion-free effects
- External 9VAC power supply included

### How to Use This Manual

A little technical knowledge will help you get the most out of your gear...it's really pretty simple. This manual is divided into the following sections describing the various functions and applications for the Faze. While it's a good idea to read through the entire manual once carefully, those having general knowledge about effect devices should use the table of contents to look up specific functions.

Chapter 1: Quick Start. If you're already experienced with effect boxes, this will get you started using the Faze right away. It's a short guide to the essential elements of hooking it up and using it for the first time. A brief tour of the front and rear panels also directs you to the chapters focused on individual features.

Chapter 2: Connections gives detailed instructions for connecting the Faze to a variety of typical audio systems. It also discusses the process of linking the Faze with other ModFX devices.

Chapter 3: Using the Faze explains the controls of the Faze and their functions.

Chapter 4: Sample Settings provides a selection of sound charts created by the sound designers at Alesis for you to try.

Near the end of the manual are troubleshooting tips, specifications, and an index to help you find what you're looking for. Helpful tips and advice are highlighted in a shaded box like this

When something important appears in the manual, an exclamation mark (like the one shown at left) will appear with some explanatory text. This symbol indicates that this information is vital when operating the Faze.

# Safety Instructions/Notices

## **Important Safety Instructions (English)**

## Safety symbols used in this product

This symbol alerts the user that there are important operating and maintenance instructions in the literature accompanying this unit.

This symbol warns the user of uninsulated voltage within the unit that can cause dangerous electric shocks.

This symbol warns the user that output connectors contain voltages that can cause dangerous electrical shock.

# Please follow these precautions when using this product:



- Read these instructions.
- 2. Keep these instructions.
- 3. Heed all warnings.
- Follow all instructions.
- 5. Do not use this apparatus near water.
- Clean only with a damp cloth. Do not spray any liquid cleaner onto the faceplate, as this may damage the front panel controls or cause a dangerous condition.
- 7. Install in accordance with the manufacturer's instructions.
- 8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding-type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. When the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- Protect the power cord from being walked on or pinched, particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.

Continued next page

# **Important Safety Instructions**

 Use only attachments or accessories specified by the manufacturer.



- 12. Use only with a cart, stand, bracket, or table designed for use with professional audio or music equipment. In any installation, make sure that injury or damage will not result from cables pulling on the apparatus and its mounting. If a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
- Unplug this apparatus during lightning storms or when unused for long periods of time.



- 14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as when the power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
- This unit produces heat when operated normally. Operate in a well-ventilated area with at least six inches of clearance from peripheral equipment.
- 16. This product, in combination with an amplifier and headphones or speakers, may be capable of producing sound levels that could cause permanent hearing loss. Do not operate for a long period of time at a high volume level or at a level that is uncomfortable. If you experience any hearing loss or ringing in the ears, you should consult an audiologist.
- 17. Do not expose the apparatus to dripping or splashing. Do not place objects filled with liquids (flower vases, soft drink cans, coffee cups) on the apparatus.
- WARNING: To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.

# **CE Declaration Of Conformity**

See our website at:

http://www.alesis.com

### FCC Compliance Statement

This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference and (2) this device must accept any interference received, including interference that may cause undesired operation.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

## Instructions de Sécurité Importantes (French)

## Symboles utilisés dans ce produit

Ce symbole alèrte l'utilisateur qu'il existe des instructions de fonctionnement et de maintenance dans la documentation jointe avec ce produit.

Ce symbole avertit l'utilisateur de la présence d'une tension non isolée à l'intérieur de l'appareil pouvant engendrer des chocs électriques.

Ce symbole prévient l'utilisateur de la présence de tensions sur les raccordements de sorties, représentant un risque d'électrocution.

# Veuillez suivre ces précautions lors de l'utilisation de l'appareil:



- Lisez ces instructions.
- Gardez ces instructions.
- 3. Tenez compte de tous les avertissements.
- Suivez toutes les instructions.
- 5. N'utilisez pas cet allareil à proximité de l'eau.
- Ne nettoyez qu'avec un chiffon humide. Il est potentiellement dangereux d'utiliser des pulvérisateurs ou nettoyants liquides sur cet appareil.
- 7. Installez selon les recommandations du constructeur.
- Ne pas installer à proximilé de sources de chaleur comme radiateurs, cuisinière ou autre appareils (don't les amplificateurs) produisant de la chaleur.
- 9. Ne pas enlever la prise de terre du cordon secteur. Une prise murale avec terre deux broches et une troisièrme reliée à la terre. Cette dernière est présente pour votre sécurité. Si le cordon secteur ne rentre pas dans la prise de courant, demandez à un électricien qualifié de remplacer la prise.
- Evitez de marcher sur le cordon secteur ou de le pincer, en particulier au niveau de la prise, et aux endroits où il sor de l'appareil.

Suite de la page suivante

# **Important Safety Instructions**

11. N'utilisez que des accessoires spécifiés par le constructeur.



- 12. N'utilisez qu'avec un stand, ou table conçus pour l'utilisation d'audio professionnel ou instruments de musique. Dans toute installation, veillez de ne rien endommager à cause de câbles qui tirent sur des appareils et leur support.
- 13. Débranchez l'appareil lors d'un orage ou lorsqu'il n'est pas utilisé pendant longtemps.



- 14. Faites réparer par un personnel qualifié. Une réparation est nécessaire lorsque l'appareil a été endommagé de quelque sorte que ce soit, par exemple losrque le cordon secteur ou la prise sont endommagés, si du liquide a coulé ou des objets se sont introduits dans l'appareil, si celui-ci a été exposé à la pluie ou à l'humidité, ne fonctionne pas normalement ou est tombé.
- 15. Puisque son fonctionement normale génère de la chaleur, placez cet appareil au moins 15cm. des équipments péripheriques et assurez que l'emplacement permet la circulation de l'air.
- 16. Ce produit, utilisé avec un amplificateur et un casque ou des enceintes, est capable de produite des niveaux sonores pouvant engendrer une perte permanente de l'ouïe. Ne l'utilisez pas pendant longtemps à un niveau sonore élevé ou à un niveau non confortable. Si vous remarquez une perte de l'ouïe ou un bourdonnement dans les oreilles, consultez un spécialiste.
- 17. N'exposez pas l'appareil à l'égoutture ou à l'éclaboussement. Ne placez pas les objets remplis de liquides (vases à fleur, boîtes de boisson non alcoolique, tasses de café) sur l'appareil.
- AVERTISSEMENT: Pour réduire le risque du feu ou de décharge électrique, n'exposez pas cet appareil à la pluie ou à l'humidité.

## Lesen Sie bitte die folgende Sicherheitshinweise (German)

### Sicherheit Symbole verwendet in diesem Produkt

Dieses Symbol alarmiert den Benutzer, daß es wichtige Funktionieren und Wartung Anweisungen in der Literatur gibt, die diese Maßeinheit begleitet.

Dieses Symbol warnt den Benutzer der nicht isolierten Spannung innerhalb der Maßeinheit, die gefährliche elektrische Schläge verursachen kann.

Dieses Symbol warnt den Benutzer, dem Ausgabestecker Spannungen enthalten, die gefährlichen elektrischen Schlag verursachen können.

# Folgen Sie bitte diesen Vorkehrungen, wenn dieses Produkt verwendet wird:



- Lesen Sie die Hinweise.
- 2. Halten Sie sich an die Anleitung.
- 3. Beachten Sie alle Warnungen.
- 4. Beachten Sie alle Hinweise.
- 5. Bringen Sie das Gerät nie mit Wasser in Berührung.
- Verwenden Sie zur Reinigung nur ein weiches Tuch. Verwenden Sie keine flüssigen Reinigungsmittel. Dies kann gefährliche Folgen haben.
- Halten Sie sich beim Aufbau des Gerätes an die Angaben des Herstellers.
- Stellen Sie das Gerät nich in der Nähe von Heizkörpern, Heizungsklappen oder anderen Wärmequellen (einschließlich Verstärkern) auf.
- Verfehlen Sie nicht den Zweck des grounging Terminals auf dem Netzstecker. Dieses Terminal wird für Ihre Sicherheit zur Verfügung gestellt.
- 10. Verlegen Sie das Netzkabel des Gerätes niemals so, daß man darüber stolpern kann oder daß es gequetscht wird.

Fortsetzung auf nächster Seite

# **Important Safety Instructions**

11. Benutzen Sie nur das vom Hersteller empfohlene Zubehör.



- 12. Verwenden Sie ausschließlich Wagen, Ständer, oder Tische, die speziell für professionelle Audio- und Musikinstrumente geeignet sind. Achten Sie immer darauf, daß die jeweiligen Geräte sicher installiert sind, um Schäden und Verletzungen zu vermeiden. Wenn Sie einen Rollwagen benutzen, achten Sie darauf, das dieser nicht umkippt, um Verletzungen auszuschließen.
- Ziehen Sie während eines Gewitters oder wenn Sie das Gerät über einen längeren Zeitraum nicht benutzen den Netzstecher aus der Steckdose.



- 14. Die Wartung sollte nur durch qualifiziertes Fachpersonal erfolgen. Die Wartung wird notwendig, wenn das Gerät beschädigt wurde oder aber das Stromkabel oder der Stecker, Gegenstände oder Flüssigkeit in das Gerät gelangt sind, das Gerät dem Regen oder Feuchtigkeit ausgesetzt war und deshalb nicht mehr normal arbeitet oder heruntergefallen ist.
  - Dieses Gerät produziert auch im normalen Betrieb Wärme. Achten Sie deshalb auf ausreichende Lüftung mit mindestens
     cm Abstand von anderen Geräten.
  - 16. Dieses Produkt kann in Verbindung mit einem Verstärker und Kopfhörern oder Lautsprechern Lautstärkepegel erzeugen, die anhaltende Gehörschäden verursachen. Betreiben Sie es nicht über längere Zeit mit hoher Lautstärke oder einem Pegel, der Ihnen unangenehm is. Wenn Sie ein Nachlassen des Gehörs oder ein Klingeln in den Ohren feststellen, sollten Sie einen Ohrenarzt aufsuchen.
  - Setzen Sie den Apparat nicht Bratenfett oder dem Spritzen aus. Plazieren Sie die Nachrichten, die mit Flüssigkeiten (gefüllt werden Blumevases, Getränkdosen, Kaffeetassen) nicht auf den Apparat.
  - WARNING: um die Gefahr des Feuers oder des elektrischen Schlages zu verringern, setzen Sie diesen Apparat nicht Regen oder Feuchtigkeit aus.

# **Important Safety Instructions**

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# 1 Quick Start Guide

## If you can't wait to get started

The Alesis Faze is a unique product, but its basic hookup and operation is similar to other effects units in most respects. If you're experienced with signal processors, this chapter is a "shorthand" guide for those who want to start using the Faze right away. If you have questions about any of the features, don't worry – later chapters will unveil the mysteries of the Faze's special features.

# If you're new to signal processing...

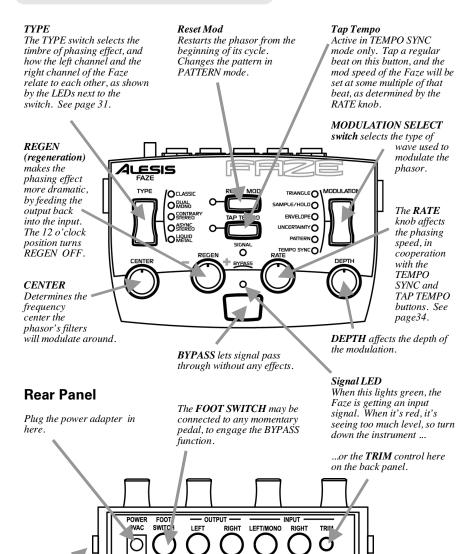
start with the more detailed instructions for hookup and operation starting in the next chapter.

### Hook it up to a synthesizer

- First, make sure the power is off to all the components you're connecting to: amp, mixer, and instruments.
- 2. Pull the Faze and its power supply out of the package.
- Using a pair of 1/4" instrument cables, plug the outputs
  of the synthesizer into the INPUTS on the back of the
  Faze.
- Connect the OUTPUTS of the Faze to the inputs of a mixer, powered speakers, or instrument amplifier.
- Insert the power jack of the Faze's power adapter into the POWER 9VAC input on the rear panel of the Faze and plug the power adapter into an AC outlet (preferably on a power strip with its switch off).
  - The Faze doesn't have a POWER switch of its own. The moment you plug in the power, its top panel LEDs will come on.
- 6. Turn the power on to the system: the keyboard, then the Faze's power strip (if it's not already on), then the mixer, then the amp.
- Turn the INPUT TRIM knob on the back of the Faze while playing the keyboard to adjust the input level. The SIGNAL LED on the top panel will light green, not red, when the level is correct.
- Experiment with the knob and button settings on the Faze to create different sounds.

For more detailed information on connecting the Faze, see chapter 2: Connections.

# A quick overview of the controls



The ModLink connectors let you connect ModFX boxes in a chain, without having to use input and output cables within the chain. INPUTS and OUTPUTS are standard 1/4" line-level jacks. Plug single-channel devices into the LEFT/MONO input. If you're using a ModLink chain, you only need to connect to the first unit's input, and the last unit's output.

# **Connections**

## **Unpacking and Inspection**

Your Faze was packed carefully at the factory. The shipping carton was designed to protect the unit during shipping. Please retain this container in the highly unlikely event that you need to return the Faze for servicing.

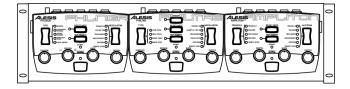
The shipping carton should contain the following items:

- Faze with the same serial number as shown on the shipping carton
- Power Adapter
- This instruction manual

To register your purchase, go to the Alesis website at www.alesis.com.

## Installing in a Rack

The Faze is designed for tabletop use, but can also be installed in a standard 19" audio equipment rack. For rack mounting, contact your Alesis dealer for the ModFX Rack. This rack shelf holds three ModFX units in a 3-space high 19" rack.



### **Power**

The Faze comes with an AC power adapter that transforms the voltage from a standard outlet into 9 volts AC (830 mA). Plug the small end of the power adapter cord into the Faze's POWER 9VAC socket and then plug the adapter itself into a good quality, noise-free AC power source of the proper rating.

The supplied AC line adapter is designed only for the destination to which the unit is shipped. To use the Faze in another country, contact your Alesis dealer for a P3 adapter suitable for the electrical system in the country you are traveling to.

Make sure you read the initial Important Safety Instructions chapter at the front of this manual.

## Avoid "popping":

Don't plug the power adapter into the Faze until all other audio cables have been hooked up. Make sure your amplifier or powered speakers are switched off when plugging in the Faze to avoid damage.

# Connecting audio

The Faze will work in many different applications, whether you are connecting an instrument directly into it, or connecting it through a mixing console. But since the Faze is a stereo effect unit, it's important to know whether the source will be stereo or mono.

### Mono In, Mono or Stereo Out

If you're connecting a guitar or bass directly to the Faze, hook it up this way:

- Connect a 1/4" phone cord to the [LEFT/MONO] INPUT of the Faze from a mono source. (The Left input will then feed both inputs of the effect.)
- Connect another 1/4" phone cord from the LEFT OUTPUT of the Faze to an amplification system or mixer input.
- If the amp or mixer is stereo, connect a second 1/4" phone
  cord from the RIGHT OUTPUT of the Faze to the other
  input of the stereo amplification system, or the next mixer
  input.
- If you're connecting directly to a stereo mixer, pan the two channels hard left and hard right to get the maximum effect.

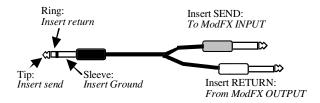
When connecting audio cables and/or turning power on and off, make sure that all devices in your system are turned off and the volume controls are turned down.

### Turn up the trim...

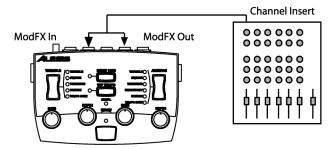
Most guitars and basses have relatively low output levels. For the quietest effect, turn up the volume on the guitar to full, then crank up the [TRIM] control on the back of the Faze until the SIGNAL LED on its top panel flashes red while you play, then back it off a bit.

# Connecting to the Channel Inserts of a mixing console:

Most recording consoles have a jack near the mic and line inputs labeled "Insert". This is typically a TRS jack with the send and return on the same jack. To use the Faze as a channel insert, you will need an insert cable (not included).



This cable splits the TRS insert jack into two unbalanced mono connectors. Usually, the tip is connected to the INPUT of the Faze and the ring is connected to the OUTPUT of the Faze. However, this may be reversed on some recording consoles. Check your mixer's Reference Manual to be sure or just try it both ways – this won't damage the Faze.



For stereo operation, you would use two insert cables, inserted into two adjacent channels of the mixer. One would send and receive signal to the left channel of the Faze, and the pan pot of that mixer channel would normally be panned to the left. Pan the next mixer channel, for the right side of the Faze, to the right.

# Connecting to the Main Outputs of a mixing console:

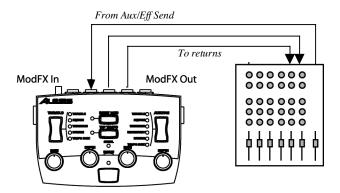
In addition to channel inserts, most mixing consoles have main insert jacks near the main outputs. You can use insert cables to connect the Faze to the main L/R bus the same way you connect it to a pair of channels. Simply connect one insert cable to the left main insert of the mixer, and connect the two mono jacks to the left INPUT and OUTPUT of the Faze. Use another insert cable to connect the right main insert to the right INPUT and OUTPUT of the Faze.

Alternatively, you could plug the mixing console's main outputs directly into the Faze's inputs, then feed the Faze's outputs to your monitor amps or mixdown recorder. However, with this method if you fade down the volume at the end of the song, the sound quality may change as you fade. That's why it's better to use insert jacks, if they're available.

# Connecting to the Effect Send/Return of a mixing console:

Since the ModFX boxes don't have a wet/dry mix control, they're designed more for in-line processing than the send/receive kind of processing typically used for reverb units. However, plugging the Faze into a mixer's effect send/return loop will allow you to phase a mix of several instruments, from any mixer channel that has its effect send raised.

To do this, connect a single cable from the Effect Send Out (sometimes labeled "Aux Out") to the [LEFT/MONO] input of the Faze. Use two separate cables to connect the [LEFT OUTPUT] and [RIGHT OUTPUT] of the Faze to the left and right inputs of a stereo Effect Return, or to two adjacent mixer channels panned to left and right.



If you use mixer channels for the returns from the Faze, be sure the Effect Sends for those channels are turned all the way off to avoid feedback.

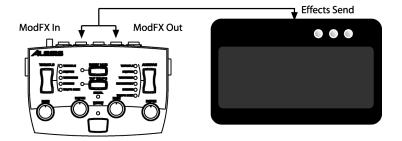
# Connecting to the inserts on an instrument amplifier:

The insert send on a guitar or bass amp is usually labeled "effects send and return" or "insert send and return". This allows you to preamplify your instrument before phasing it and sending it to the power amp.

Most guitar amps are single channel, so connect a single insert cable (see page 19) from the amp to the LEFT INPUT and LEFT OUTPUT of the Faze. Some amps have separate "effect send" and "effect return" jacks; for these, use standard cables. Check the manual of your amplifier for details.

Never connect the Faze between the power amp and the speaker! The high power levels created by the power amp will destroy the circuitry of the

Faze.



If you are using a dedicated rack-mount preamplifier, another method would be to insert the Faze between the preamp and the input(s) of the power amp.

# Connecting to equipment with XLR inputs and outputs:

If you are connecting the Faze to a product with XLR balanced inputs and outputs, you will need to convert this signal to a 1/4" unbalanced connector. Make sure that **Pin 2** of the XLR connector is connected to the **Tip** of the 1/4" adapter or cable.

Watch out for high levels, however: some XLR sources put out levels close to the maximum the Faze can accept (about +12 dBu) even when its trim is at minimum. Lower the level of the source if the [SIGNAL] LED flashes red.

### About audio cables

The connections between the Faze and your studio are your music's lifeline, so use only high quality cables. These should be low-capacitance shielded cables with a stranded (not solid) internal conductor and a low-resistance shield. Although quality cables cost more, they do make a difference.

Route cables to the Faze correctly by observing the following precautions:

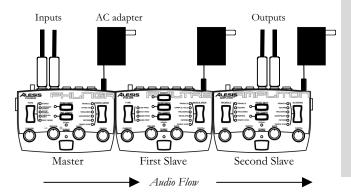
- Do not bundle audio cables with AC power cords.
- Avoid running audio cables near sources of electromagnetic interference such as transformers, monitors, computers, etc.
- Do not place cables where they can be stepped on.
   Stepping on a cable may not cause immediate damage, but it can compress the insulation between the center conductor and shield (degrading performance) or reduce the cable's reliability.
- Avoid twisting the cable or having it make sharp, right angle turns.
- Never unplug a cable by pulling on the wire itself.
   Always unplug by firmly grasping the body of the plug and pulling directly outward.

# Don't use line transformers:

Many XLR-to-1/4" adapters sold at electronics stores are NOT adapters, but transformers (and very low quality transformers at that). Don't use these on the output of the Faze—they're unnecessary and generally sound awful because they don't have the headroom to handle the Faze's output. Get a hard-wired adapter or cable from your professional audio dealer, or make one yourself from components.

## Using the ModLink

The Faze can be connected to other effect boxes in the ModFX family via the ModLink. The ModLink is a cable-free connection between two ModFX units that transfers digital audio and word clock. The 9-pin male connector on the left side of the unit is the ModLink IN port. The 9-pin female connector on the right side is the ModLink OUT port. By directly connecting two ModFX units via the ModLink, audio will pass from the left-most unit to the right-most unit.



The audio signal flows from left to right. The Master will send its digital audio output to the First Slave, and the First Slave will, in turn, send its output to the Second Slave.

# What about the 1/4" jacks on the slave units?

When a unit is a slave to another unit, its audio input jacks are disabled; it will get its audio input digitally from its ModLink port. The output jacks, however, are always active; so an audio output can be tapped from any linked unit, without interrupting the flow to the rest of the chain.

# 2 Connections

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This section defines phasing, and explains the functions of the Faze's controls in greater detail. The technical information in the next few pages will help you get the most out of your gear...it's really pretty simple.

## About phase shifting

Phase shifters have been among the most popular signal processors since their introduction in the late 1960s. They provide body and interest to guitars, keyboards, and voices. Phasing is achieved by running the signal through a series of all-pass filters that don't change the frequency response, but do change the phase response. When this phase-shifted signal is mixed back together with the original signal, peaks and valleys in the frequency response occur, similar to a comb filter. When the center frequency of the filter is moved up and down by an LFO (Low Frequency Oscillator), the peaks and dips sweep across the harmonic spectrum of the input signal to produce the classic phase shifting sound. By feeding a part of the output of the filter line back to its input (i.e., regeneration), the sound becomes more dramatic as oscillations begin to occur at different frequencies.

### How the Faze emulates classic phase shifters

Famous analog phase-shift pedals like the MXR Phase 90 and MuTron Bi-Phase got their characteristic sound by using six filter stages to make the frequency notches and peaks steeper. Because they used analog components, they were limited in how many stages they could have. These analog filters also had certain side effects besides the phase shift itself that became a recognized part of the sound.

Using modern DSP techniques, the Faze uses digital emulation to recreate these classic sounds, and to go way beyond them. For example, its DUAL MONO mode is like taking two six-stage phasors and linking them in series on each channel. The LIQUID METAL mode uses more than three times the number of filter stages than analog pedals did.

Not only does the Faze gives you many more modulation options than the classic units, its wide variety of stereo types can create sounds with more depth than single-channel phase pedals.

## Phase shifters vs. flangers

These two effects sometimes sound alike, but they are achieved in different ways. Phasers use shifting filters; flangers use shifting time delays. In both cases, the characteristic sound is created by peaks and dips in frequency response when the shifted signal is recombined with the unprocessed signal.

Flanging has a much more complex series of additions and cancellations (peaks and troughs in the frequency response) than phasing does. It also slightly changes the pitch of the sound, which phasing doesn't. Phasing's frequency nodes are nonharmonic, and less obtrusive.

Try out the Alesis Phlngr to hear one of the best flangers available today.

## What is Tempo Sync?

Phase shifting has a regular cycle over time. Sometimes, you'll want the rate of phasing to match the beat of your music instead of being random. For example, you can set the rate so that the phasing effect completes each cycle once per measure, or to a vibrato-like effect that happens in sixteenth notes. The TEMPO SYNC feature of the Alesis ModFX series not only lets you set a tempo naturally by tapping on the TAP TEMPO button, it can automatically adjust its speed slightly relative to any rhythmic audio input, after setting the basic speed using the TAP button.

### To use Tempo Sync:

You can set the Faze to TEMPO SYNC mode as follows:

- Press the down side of the [MODULATION] rocker switch to select the next modulation type.
  - You can see the type of effect by the LED lit next to the name—for example, TRIANGLE, SAMPLE/HOLD, ENVELOPE and so on.
- Keep pressing the rocker switch through all the normal modes until you enter TEMPO SYNC mode, and then advance to the type of modulation you want.
  - Both the Mod Type and TEMPO SYNC LEDs will be lit. For example, if you press the down side of the rocker switch when you're in PATTERN mode, the Faze will go to TRIANGLE/TEMPO SYNC mode. At this point, the TAP TEMPO LED will start flashing at the last speed it was set to (or the default of 120 bpm).
- Tap the [TAP TEMPO] button several times to set the desired tempo.
  - The TAP TEMPO LED will flash in time to the hits. As long as the [RATE] control is in the center position, the modulation speed will match the tempo.
- 4. If the tempo isn't quite right, "tap" a steady, discrete beat on any instrument connected to the input. The internal processor will then synchronize the tapped tempo with the audio input. The processor will make slight alterations to the tempo such that it stays synchronized with the beat of the audio input.

## To turn Tempo Sync off:

Simply press the UP side of the [MODULATION] switch repeatedly until the Tempo Sync LED goes off, then select the modulation waveform you want.

# The RATE knob is different in Tempo sync mode

In TEMPO SYNC mode, the RATE knob acts as a multiplier to the speed set by TAP TEMPO, so you can't get the tempo to change slightly by adjusting that knob. Also, changes to RATE won't affect the flashing of the TEMPO LED.

## **Description of Controls**

### Rate

The [RATE] knob changes the phasing modulation speed. When the mod source is set to ENVELOPE it affects the attack and release time of the envelope. In all other modes it affects the LFO (low frequency oscillator) speed.

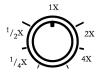
In normal modulation modes (TEMPO SYNC LED off), turning the [RATE] knob alters the rate continuously from very slow to very fast. Turn the knob clockwise for a faster speed, counterclockwise for a classically-slow sweep.

### Rate knob operation in TEMPO SYNC mode

When the Faze is in TEMPO SYNC mode, the fundamental modulation speed is set by the TAP TEMPO function, and the rate knob is used to adjust that rate to an even fraction or multiple of the current tempo:

- With the knob indicator in the 12 o'clock position, the mod rate will be the same as tempo (one cycle per quarter note).
- Turn the knob to the left to set the mod rate to half of the tempo (i.e., one cycle per half note), or full counter-clockwise to set it to a quarter of the tempo (once per measure).
- Turn the knob to the right to set the modulation to twice the tempo (eighth notes), or four times the tempo (sixteenth notes).

The diagram below shows where you can set the [RATE] knob to modulate the phaser at different multiples of the tempo during TEMPO SYNC mode.



## **Depth**

The [DEPTH] knob changes the intensity of the phasing effect, by increasing the amount of modulation of the filter frequency. Turn the knob clockwise for a deeper effect. Turning [DEPTH] all the way counter-clockwise turns modulation off completely, leaving the filter fixed at the [CENTER] position. Depth interacts with the [CENTER] control (see next page). You may not hear phasing even when [DEPTH] is set to maximum if the [CENTER] control is set high.

See the descriptions of the Modulation sources for more complete details of how [RATE] relates to each type.

See the description of TAP TEMPO for important tips on using this feature.

Unlike some other effects, [DEPTH] in the Faze doesn't decrease the amount of phased signal in the mix; that's a constant. Instead, it controls how much the frequency of the all-pass filter will be moved up and down by the modulation source.

### Center

The [CENTER] knob changes the center frequency of the Faze's main filter notch. Its effect varies depending on the mode, [DEPTH] and [RATE], but in frequency terms, when the [CENTER] knob is at the 12 o'clock position, you'll hear the frequency of the phase shift oscillate up and down from the center frequency. When it's turned full counter-clockwise, the phase cancellations are in the bass region, and at full clockwise the center is so high that the filter effect barely makes it into the audible range.

In CONTRARY STEREO mode, the [CENTER] control is reversed for the left channel (clockwise rotation puts the frequency center in the bass region instead of the treble). As each side has more or less high end, the [CENTER] control may sound somewhat like a pan pot.

To hear how CENTER works for yourself, turn [DEPTH] all the way off, and move [CENTER] manually while listening. Turn [REGEN] up until you can hear a tone, and experiment with raising the [DEPTH] control at different [CENTER] settings.

### How Center and Depth interact

The modulation section is designed to move the center frequency around, but at the extreme high or low settings of [CENTER] this modulation will "bottom out" when the frequency has reached its limit or moved out of the audible spectrum. For example, at high settings of [CENTER], you'll usually need to crank up the [DEPTH] to hear the phasing effect at the high end. When [CENTER] is set to the bass frequencies, you'll probably want to turn [DEPTH] down, depending on the range the instrument or vocal is in.

## Regen

The [REGEN] knob changes the amount of positive or negative feedback (how much output of the phasor is fed back to the phasor's input).

- For no feedback (REGEN off), leave this knob in the center "12 o'clock" position.
- To increase positive feedback, turn [REGEN] clockwise from center.
- For negative feedback, turn [REGEN] counter-clockwise from center.

At extreme settings in either direction, in some modes the filters are so sharp they're on the edge of self-oscillation and you'll hear a hint of an additional tone in the output. Generally, positive feedback results in a frequency peak about an octave higher than negative feedback.

### **Modulation Select Switch**

The up/down rocker switch on the right side of the unit selects the modulation source for the phaser. The LEDs next to the switch light up to indicate the current mode. There are five kinds of modulation available, explained below. The rocker switch also selects TEMPO SYNC mode, as explained earlier.

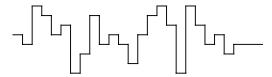
### Triangle

This mode uses a triangle wave for the phasing effect. Use this when you want the smooth up-and-down cycle of traditional phasing (such as a rotary speaker or vibrato-like effect).



### Sample/Hold

This mode selects a sample and hold wave for the oscillator's modulation. The phaser's center frequency will jump randomly around the center setting, holding a pitch until it's time for the next one.



### Envelope

This is one of the most useful effects in the Faze for lead players. Envelope modulation takes its cue from the input signal instead of using a periodic wave generated by an LFO. In Envelope mode, the phasing frequency follows the average amplitude envelope of the incoming signal—the louder you play, the deeper the phase will move. The effect is like having a pedal that moves the phase point with every new note you play, almost like a trigger.

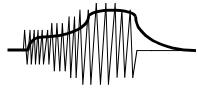
How quickly the Faze responds to level changes in the incoming input is controlled by the [RATE] knob. The most obvious effect of the [RATE] control is to speed up the attack and release times of the envelope. However, it's actually more complex than that. Think of the [RATE] control as being a "shock absorber" on how quickly the filter frequency will follow the changes in level of incoming sound. At low [RATE] settings, the change responds slowly, both up and down. At midrange settings, it more quickly moves, in sync with individual notes. At the highest range, the

### Envelope reacts directly to your playing

With a little practice and some careful level adjustment of your instrument, you'll adjust to the feel of how loud you have to play to get the phase tone you want, and how soft to play to keep the phase close to center.

Faze almost jitters as it tries to follow the envelope of the incoming signal exactly.

In this mode, TEMPO SYNC/TAP TEMPO features have no effect.



### Uncertainty

This mode generates a continually altering random waveform for the phase modulation, changing direction at various points during the cycle.

### Pattern

This mode randomly generates a 16-step sequence to modulate the phase and repeats it over and over. In some ways, it sounds like a mix of SAMPLE AND HOLD and UNCERTAINTY, since Pattern mode sometimes makes the phase jump quickly from step to step, while other levels "glide" from step to step. It sounds somewhat like the "sample and hold" modulation of steep notch filter on a synthesizer, except that the pattern will step through the same 16 steps over and over, instead of being random.

If the [REGEN] control is turned up in PATTERN mode and you play a single, sustained tone, you'll hear a sample-and-hold-like sequence of tones against that tone.



- Press the [RESET MOD] button to generate a new 16-step pattern.
- Try using the [RATE] knob, or the TEMPO SYNC/TAP TEMPO features, to make the steps of the pattern play in sync with your music. Keep in mind that the pattern has 16 steps per 4 beats, so adjust the RATE knob accordingly.

# RATE in Pattern mode

You can think of Pattern mode as being 4x the rate of the other modulation sources. In Tempo Sync mode, turn the [RATE] knob full clockwise (1/4 speed) to get one step per beat, the same as Triangle at a 12 o'clock setting of [RATE].

### **TYPE Rocker Switch**

The up/down rocker switch on the left side of the unit selects the type of phasing effect. The LEDs next to the switch light up to indicate the current mode. The Type switch changes the stereo mode—in other words, how its left and right signal paths relate to each other—and the number of filters being used. There are five phasing types available, explained below.

#### Classic

Classic is an emulation of traditional 6-filter-stage phase-shift pedals like the MuTron Bi-Phase and MXR Phase 90. In Classic mode, the left and right channels are synchronized exactly. As the phase sweeps down on the left, it sweeps down on the right simultaneously.

### **Dual Mono**

If you could put two 6-stage pedals on each channel, run them in series, and synchronize their modulators, you'd wind up with this Dual Mono effect. Note that "mono" in the name doesn't mean that left and right channels are combined—each one is still separate, with its own 12-filter phaser, but synchronized to a common modulator.

Because the frequency cut is so deep in this mode, proper settings of [CENTER] are crucial if you don't want to lose the bottom end of the signal. To find the best "home" frequency, turn [DEPTH] off and move the [CENTER] control to tailor the response to the sound being processed, then raise [DEPTH] to hear how modulation affects frequency response.

## Contrary Stereo

In CONTRARY STEREO mode, the left and right channels of the Faze are synchronized, but travel in opposite directions: as the left channel phases downwards, the right channel phases upwards.

### Using a mono source?

If you're plugging a mono source like a guitar into the LEFT/MONO input only, but still have a stereo output, you'll find that CONTRARY STEREO and ASYNC STEREO modes give a stereo effect, while CLASSIC, DUAL MONO, and LIQUID METAL modes sound centered between the speakers.

### Async Stereo

In ASYNC (asynchronous) STEREO mode, the modulation of the left and right channels of the Faze are not synchronized. The left and right channels will have a similar rate, but "drift" from each other in a random way (except in PATTERN mode).

### Liquid Metal

This mode is unique to the Faze and takes phase shifting to a whole new level. By adding over three times the filter stages of classic pedals, the phasing effect becomes so steep it sounds like chorusing or flanging. But, it is still a phase shifting effect, not a pitch change effect. In Liquid Metal mode, the [CENTER] control is especially crucial, since the peaks and dips are so much more pronounced.

When modulated by the Envelope, and [REGEN] is set high, Liquid Metal can sound like an automatic wah pedal or a Frampton-style talk box.

### Reset Mod

Press this button to reset the phase of the phaser modulation source as follows:

 In TRIANGLE mode, press [RESET MOD] to start the wave from the beginning of its phase.

The "starting point" of the phase shift is determined by the setting of the [CENTER] control

 In PATTERN mode press this button to generate a new 16step pattern.

## **Bypass**

This button sends the signal directly from the input to the output without any effect. Press [BYPASS] to check the sound of the source without any effect from the Faze. When the red BYPASS LED is lit, phasing is turned off. The Bypass function can also by activated by the foot switch.

Since the Faze is a digital effect, signal always passes through the digital A/D–D/A conversion process, so that digital signal will flow through to other effects in a ModLink chain even when [BYPASS] is on. So, unlike old analog effects, this is not a "hardwire" bypass switch—the Faze must be powered on to pass signal through, even in bypass mode. Similarly, the [TRIM] control is always active, since it's an analog control regulating the level feeding the analog-to-digital converters.

# **Using the Foot Switch**

If you need to bypass the effect but your hands aren't free, simply connect any momentary footswitch (such as those used for keyboard sustain pedals, either NC normally closed or NO normally open) to the [FOOT SWITCH] jack on the rear panel. The footswitch will turn the BYPASS LED on and off.

## **Tap Tempo**

This button affects the speed of the effect whenever the [MODULATION] switch is set to a TEMPO SYNC mode. At any time you can tap this button along with the music to set a new tempo. The Tap Tempo light will flash at the current tempo.

### Tap Tempo technique

For a reliable tempo setting, make several taps in a row at a consistent speed, especially if you're changing the tempo drastically. Watch the flashing of the light to see the current tempo of the Faze.

### Adjusting tempo with audio input

After the basic tempo has been set using the [TAP TEMPO] button, it is possible to make small adjustments to the tempo via the audio input. You do this by "tapping" on the instrument (playing sharp chords, or beats, without sustain or notes inbetween) at almost the same speed as the Faze's tempo LED, or by slightly changing the speed of a drum machine feeding the inputs. The Faze can derive a beat from a complex musical input, as long as it is reasonably close to the original "tapped" tempo. The tempo can adjust up or down about 15% from the original tempo tapped in.

# How Tap Tempo works with Tempo Sync and the Rate knobs

When TEMPO SYNC mode is enabled, the rate of the modulation will be based on the tempo currently being flashed, multiplied by the position of its [RATE] knob: when it's in the middle position (around "12 o'clock"), the speed of the triangle, sample/hold, uncertainty wave, or the pattern, will be the same as the tempo. (Tempo has no effect on Envelope modulations.) See the earlier descriptions of the [RATE] knob and Tempo Sync for more information.

### To get fast modulations...

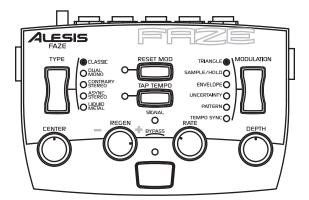
it isn't necessary to tap at a high speed if you want the effect to modulate at eighth or sixteenth notes. Just tap on the quarter-note beat, then turn the [RATE] knob to the right to double or quadruple the speed made by Tap Tempo.

# To hear the Faze's tempo by itself:

Set TYPE to CLASSIC, MODULATION to SAMPLE/HOLD (or PATTERN), and turn [REGEN] full clockwise. The Faze will start playing a pattern of tones according to its current setting.

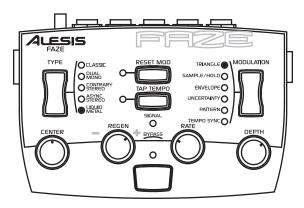
# 4 Sample Settings

While there's nothing like discovering new sounds for yourself, we thought it would be a good idea to provide some sample settings of the Faze to help get you started. Simply set the knobs on your Faze so they're at the positions shown, and press the rocker switches so each effect is in the mode shown by the LEDs. Feel free to modify these any way you want to suit your particular playing style.



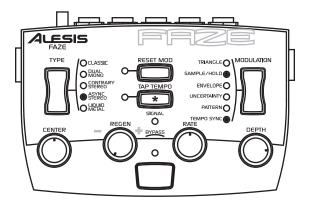
### Fazer On Stun

For adding harmonic interest to any instrumental part.



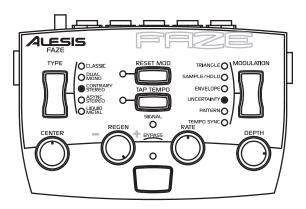
#### Fazer On Kill

A much more pronounced effect using the LIQUID METAL type for leads, etc.



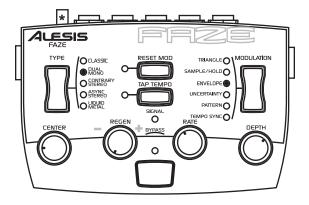
### Faze Jumper

Tap quarter notes in to this patch, and the phase will jump to different levels once per beat. Turn the [RATE] control clockwise to make it jump levels on 1/8<sup>th</sup> or 1/16<sup>th</sup> notes.



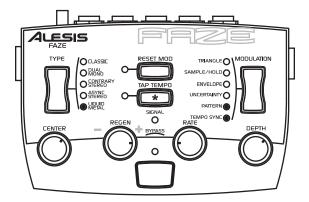
### Phreaky Faze

This uses the UNCERTAINTY wave with REGEN set to maximum. The CONTRARY STEREO type makes this especially effective on headphones.



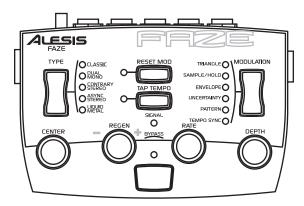
## Triggered Sweep

Adjust the input level and \*INPUT TRIM carefully to get the desired envelope effect. Higher RATE settings will result in faster envelope movement.



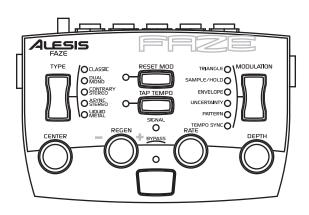
### Faze Tracker

Tap quarter notes in to this patch, and the phase will jump to different levels each beat, in a recurring PATTERN. Turn the [RATE] control to the "12 o'clock" position to make it jump in 1/16<sup>th</sup> notes; press [RESET MOD] to change the pattern.



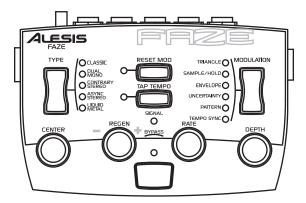
#### Blank

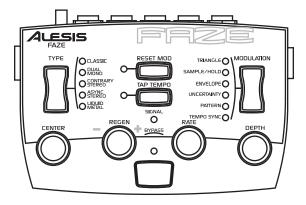
Fill in your own favorite settings here. Photocopy the next page if you need more space.

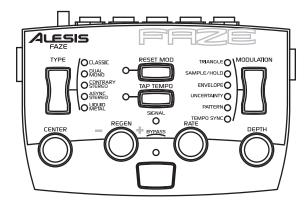


# 4

# **Blank Settings Templates**







# Troubleshooting Index

If you experience problems while operating your Faze, please use the following table to locate possible causes and solutions before contacting Alesis Product Support for assistance.

Sympto	ms
--------	----

No audio outputs.

#### Cause

No input audio(SIGNAL LED doesn't flash).

Bad cables.

Destination is turned down.

Input Trim knob is turned down

Input cables are connected to a linked unit

Power is not connected

Not in Tempo Sync mode

Power dropout to one or more units in the chain

Input level too high (SIGNAL LED on front panel flashes red)

[CENTER] knob is set high, esp. in Dual Mono

Audio cables are crossing a power cable or a power adapter.

Problem with the source

Bad cables

#### Solution

Test with a known good input.

Replace the cables.

Check the connections and the level of the mixer or amp that the Faze is connected to.

Adjust the knob to the proper level.

Connect the input cables to the Master of the link chain

Go take a walk

Select Tempo Sync mode

Plug in a power supply to each unit in a chain.

Turn down the source, or the TRIM control on the Faze's back panel.

Change the [CENTER] setting

Make sure that the Faze and its audio cables are kept away from power cables and wall warts. Don't wrap cable in tight bundles.

Try bypassing the Faze by connecting the input cables to the output cables and see if the problem remains.

Replace the cables

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# [TAP TEMPO] button is not working

ModLinked units are not working properly

Distorted sound

Sounds thin, no bottom end

Buzz or hum from outputs

### Symptoms

AC hum

Whistles or tones in output

Can't hear phasing effect, even with [DEPTH] at maximum

### Cause

Ground loop

[REGEN] set too high

[CENTER] set to maximum

### Solution

Place all equipment in the studio on a common ground (see next page) Set [REGEN] to center position for no feedback

Set [CENTER] to the middle of its range, or change the TYPE.

## Avoiding ground loop noise

In today's studio, where it seems every piece of equipment has its own computer chip inside, there are many opportunities for ground loop problems to occur. These show up as hums, buzzes or sometimes radio reception and can occur if a piece of equipment "sees" two or more different paths to ground. While there are methods to virtually eliminate ground loops and stray radio frequency interference, most of the professional methods are expensive and involve installing a separate power source just for the sound system. Alternatively, here are some helpful hints that professional studio installers use to keep those stray hums and buzzes to a minimum.

### KEEP ALL ELECTRONICS OF THE SOUND SYSTEM ON THE SAME AC ELECTRICAL CIRCUIT.

Most stray hums and buzzes happen as a result of different parts of the sound system being plugged into outlets of different AC circuits. If any noise generating devices such as air conditioners, refrigerators, neon lights, etc., are already plugged into one of these circuits, you then have a perfect condition for stray buzzes. Since most electronic devices of a sound system don't require a lot of current (except for power amplifiers), it's usually safe to run a multi-outlet box or two from a SINGLE wall outlet and plug in all of the components of your system there.

# KEEP AUDIO WIRING AS FAR AWAY FROM AC WIRING AS POSSIBLE.

Many hums come from audio cabling being too near AC wiring. If a hum occurs, try moving the audio wiring around to see if the hum ceases or diminishes. If it's not possible to separate the audio and AC wiring in some instances, make sure that the audio wires don't run parallel to any AC wire (they should only cross at right angles, if possible).

#### TO ELIMINATE HUM IF THE ABOVE HAS FAILED:

- Disconnect the power from all outboard devices and tape machines except for the Faze, the mixer and control room monitor power amp.
- Plug in each tape machine and outboard effects device one at a time. If possible, flip the polarity of the plug of each device (turn it around in the socket) until the quietest position is found.
- Make sure that all of the audio cables are in good working order. Cables with a detached ground wire will cause a very loud hum!!

 Keep all cables as short as possible, especially in unbalanced circuits.

If the basic experiments don't uncover the source of the problem, consult your dealer or technician trained in proper studio grounding techniques. In some cases, a "star grounding" scheme must be used, with the mixer at the center of the star providing the shield ground on telescoping shields, which do NOT connect to the chassis ground of other equipment in the system.

# Line conditioners and spike protectors

Although the Faze is designed to tolerate typical voltage variations, in today's world the voltage coming from the AC line may contain spikes or transients. These can cause audible noises, and they can stress your gear and, over time, possibly cause a failure. There are three main ways to protect against this, listed in ascending order of cost and complexity:

- Line spike/surge protectors. Relatively inexpensive, these are designed to protect against strong surges and spikes, acting somewhat like fuses in that they need to be replaced if they've been hit by an extremely strong spike.
- Line filters. These generally combine spike/surge
  protection with filters that remove some line noise
  (dimmer hash, transients from other appliances, etc.). A
  good example is the Isobar<sup>TM</sup> series from Tripp Lite.
- Uninterruptible power supply (UPS). This is the
  most sophisticated option. A UPS provides power even
  if the AC power line fails completely. Intended for
  computer applications, a UPS allows you to complete an
  orderly shutdown of a computer system in the event of a
  power outage. In addition, the isolation it provides
  from the power line minimizes all forms of
  interference—spikes, noise, etc.

### **Care and Maintenance**

## Cleaning

Disconnect the AC cord, then use a damp cloth to clean the Faze's metal and plastic surfaces. For heavy dirt, use a non-abrasive household cleaner such as Formula 409<sup>TM</sup> or Fantastik<sup>TM</sup>. DO NOT SPRAY THE CLEANER DIRECTLY ONTO THE FRONT OF THE UNIT AS IT MAY DESTROY THE LUBRICANTS USED IN THE SWITCHES AND CONTROLS! Spray onto a cloth, then use cloth to clean the unit.

## Refer all servicing to Alesis

We believe that the Faze is one of the best signal processors that can be made using current technology, and should provide years of trouble-free use. However, should problems occur, DO NOT attempt to service the unit yourself unless you have training and experience. Service on this product should be performed only by qualified technicians. NO USER-SERVICEABLE PARTS INSIDE.

## Obtaining repair service

Before contacting Alesis, check over all your connections, and make sure you've read the manual.

### Customers in the USA and Canada:

If the problem persists, contact Alesis and request the Product Support department. Make sure you have the unit's serial number with you. Talk the problem over with one of our technicians; if necessary, you will be given a return order (RO) number and instructions on how to return the unit. All units must be shipped prepaid and COD shipments will not be accepted.

For prompt service, indicate the RO number on the shipping label. **Units without an RO will not be accepted.** If you do not have the original packing, ship the unit in a sturdy carton, with shockabsorbing materials such as Styrofoam pellets (the kind without CFCs, please) or "bubble-pack" surrounding the unit. Shipping damage caused by inadequate packing is not covered by the Alesis warranty.

Tape a note to the top of the unit describing the problem, include your name and a phone number where Alesis can contact you if necessary, as well as instructions on where you want the product returned. Alesis will pay for standard one-way shipping back to you on any repair covered under the terms of this warranty. Field repairs are not authorized during the warranty period, and repair attempts by unqualified personnel may invalidate the warranty.

### Customers outside the USA and Canada:

Contact your local Alesis distributor for any warranty assistance. The Alesis Limited Warranty applies only to products sold to users in the USA and Canada. Customers outside of the USA and Canada are not covered by this Limited Warranty and may or may not be covered by an independent distributor warranty in the country of sale. Do not return products to the factory unless you have been given specific instructions to do so.

# **Specifications**

# **Audio Input**

Input Connectors: 2 unbalanced 1/4" jacks

Maximum Input Level: +10 dBV

Nominal Level: -10 dBV

Input Impedance:  $470k\Omega$ 

Input Converter Resolution: 24-bit, 48 kHz sampling

All measurements done over a 22Hz – 22kHz range with a 1kHz sine wave at -1dBFS input. Impedances are measured at 1kHz.

# **Audio Output**

Output Connectors: 2 unbalanced 1/4" jacks

Maximum Output Level: +9 dBV

Output Impedance:  $500\Omega$ 

Output Converter Resolution: 24-bit, 48 kHz sampling

### **Audio Performance**

(Analog In to Analog Out)

Signal To Noise Ratio: >100 dB A-weighted

THD+N: < 0.005%

Frequency Response: ± 1dB from 22Hz to 22kHz

Internal DSP Resolution: 28-bit

Power Consumption: 7 Watts max (9VAC Alesis P3)

### Mechanical

Size: 2.1" H x 5.8" W x 3.9" D

(53mm H x 148mm W x

98mm D)

Weight: 12.6oz. (357 g)

# 6 Specifications

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# Warranty / Contact Alesis

# Alesis Limited Warranty

ALESIS CORPORATION ("ALESIS") warrants this product to be free of defects in material and workmanship for a period of one (1) year for parts and for a period of one (1) year for labor from the date of original retail purchase. This warranty is enforceable only by the original retail purchaser and cannot be transferred or assigned. For the most effective service, the purchaser should register the purchase on the ALESIS website at http://www.alesis.com/support/warranty.htm.

During the warranty period ALESIS shall, at its sole and absolute option, either repair or replace free of charge any product that proves to be defective on inspection by ALESIS or its authorized service representative. In all cases disputes concerning this

warranty shall be resolved as prescribed by law.

To obtain warranty service, the purchaser must first call or write ALESIS at the address and telephone number available on the Alesis Website to obtain a Return Authorization Number and instructions concerning where to return the unit for service. All inquiries must be accompanied by a description of the problem. All authorized returns must be sent to ÂLESIS or an authorized ALESIS repair facility postage prepaid, insured and properly packaged. Proof of purchase must be presented in the form of a bill of sale, canceled check or some other positive proof that the product is within the warranty period. ALESIS reserves the right to update any unit returned for repair. ALESIS reserves the right to change or improve design of the product at any time without prior notice.

This warranty does not cover claims for damage due to abuse, neglect, alteration or attempted repair by unauthorized personnel, and is limited to failures arising during normal use that are due to defects in material or workmanship in the product. THE ABOVE WARRANTIES ARE IN LIEU OF ANY ÔTHER WARRANTIES OR REPRESENTATIONS WHETHER EXPRESS OR IMPLIED OR OTHERWISE, WITH RESPECT TO THE PRODUCT, AND SPECIFICALLY EXCLUDE ANY IMPLIED WARRANTIES OF FITNESS FOR A PARTICULAR PURPOSE OR MERCHANTABILITY OR OTHER IMPLIED WARRANTIES. Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you. IN NO EVENT WILL ALESIS BE LIABLE FOR INCIDENTAL CONSEQUENTIAL, INDIRECT OR OTHER DAMAGES RESULTING FROM THE BREACH OF ANY EXPRESS OR IMPLIED WARRANTY, INCLUDING, AMONG OTHER THINGS, DAMAGE TO PROPERTY. DAMAGE BASED ON INCONVENIENCE OR ON LOSS OF USE OF THE PRODUCT, AND, TO THE EXTENT PERMITTED BY LAW, DAMAGES FOR PERSONAL INJURY. Some states do not allow the exclusion or limitation of

apply to you. THIS CONTRACT SHALL BE GOVERNED BY THE INTERNAL LAWS OF THE STATE OF CALIFORNIA WITHOUT REFERENCE TO CONFLICTS OF LAWS. This warranty gives you specific legal rights, and you may also have other rights required by law which vary from state to state. This warranty only applies to products sold to purchasers in the United States of America or Canada. The terms of this warranty and any obligations of Alesis under this warranty shall apply only within the country of sale. Without limiting the foregoing, repairs under this warranty shall be made only by a duly authorized Alesis service representative in the country of sale. For warranty information in all other countries please refer to your local distributor.

incidental or consequential damages, so the above limitation or exclusion may not

For more effective service and product update notices, please register your Faze online at:

http://www.alesis.com/supp ort/warranty.htm

### **Alesis Contact Information**

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Alesis Faze Reference Manual Revision 1.0 by Dan Tinen

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7-51-0118-A 8/2002