



TravelStudio User's Manual

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Introduction

Thank you for choosing the Prime Audio's TravelStudio. We hope you enjoy the superior audio quality of this product. The TravelStudio's rugged construction and compact shape will provide years of dependable service. Take it with you wherever you go – home, studio, gigs, or just weekend outings with your friends.

Please become familiar with this guide before using the product. At PrimeAudio we strive to make this product both easy to use and packed with the features and capabilities that make it useful to both vocal and instrumental musicians.

Features

The TravelStudio Instrument/Mic Preamp/DI/Effects box packs a ton of features in a small, portable package.

Input and Output Connectors:

- One instrument input (IN1), ¼" TS mono, 40 dB adjustable gain
- One combo microphone/instrument input (IN2), XLR balanced mono, 40dB adjustable gain, 28V Phantom power selectable
- (1) audio input, 3.5mm TRS stereo, plug in your favorite audio source to mix with your mic/instrument
- (1) XLR balanced mono output (OUT1), to drive an amplifier or mixing board
- (1) ¼" TRS unbalanced mono/stereo output (OUT2), can be used simultaneously with XLR output
- (1) 3.5mm TRS headphone/line out, this mixed stereo output is switchable between headphone and line level
- (1) mini USB, 2.0 compliant, may be used in conjunction with the supplied software for easy setup and to create and save user configurable presets
- (1) 6VDC power input to provide external power from the supplied AC to DC converter

Internal Features:

- Simultaneous internal sampling of all instrument/microphone inputs at 48kHz
- Mixing capability for all inputs
- 15 separate DSP effects include Delay, Chorus, Phaser, Flanger, Reverb, Distortion, Amp simulation
- Equalizer, Dynamic Range Control
- FM Transmitter - transmit your mixed audio signal to a nearby FM radio and crank up the volume! Useful for intimate gatherings at home or on the road, when transporting an amplifier is not practical.
- Runs for hours off 4 AA batteries, alkaline or rechargeable.

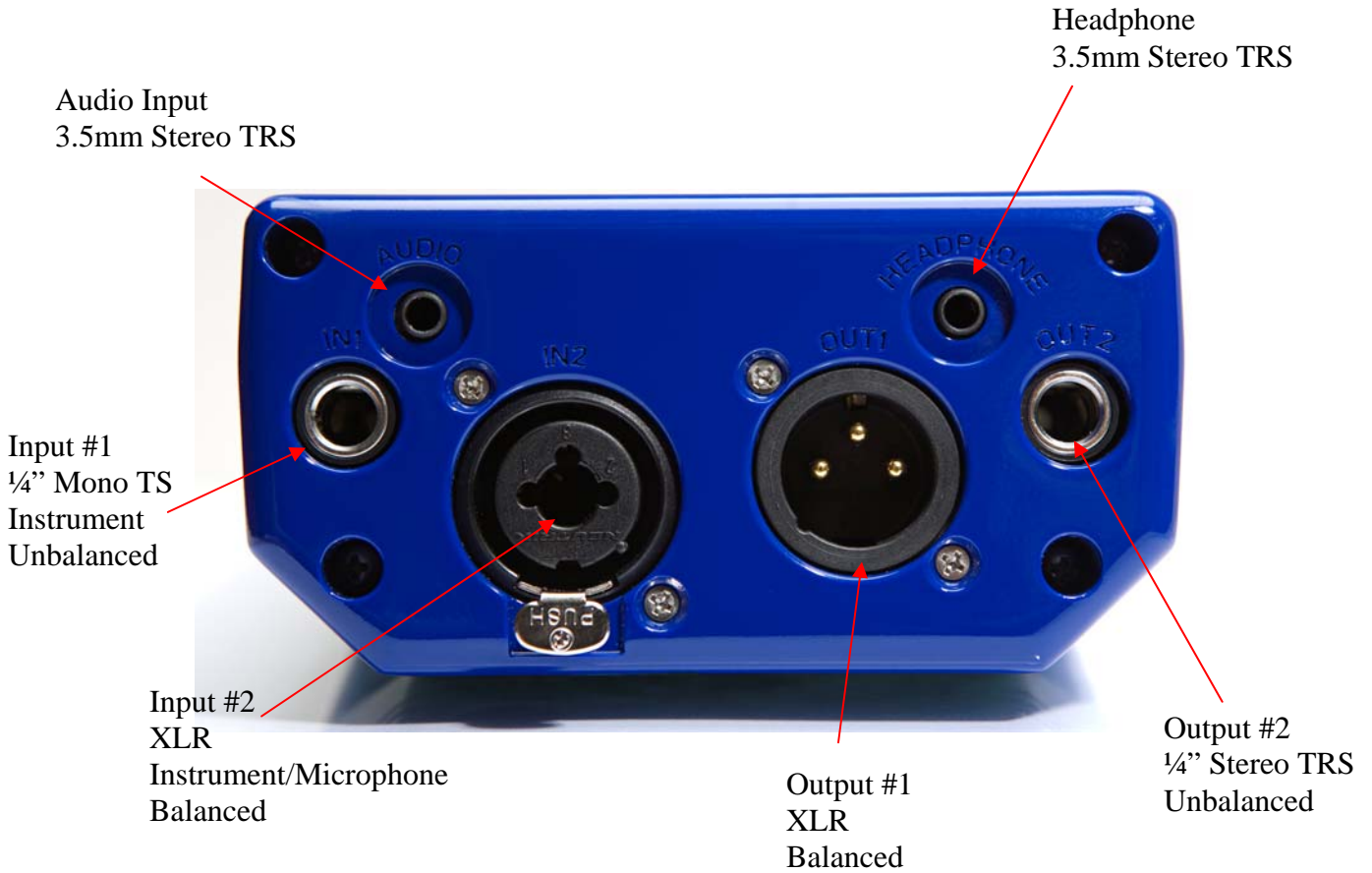
Take a Tour

Front View

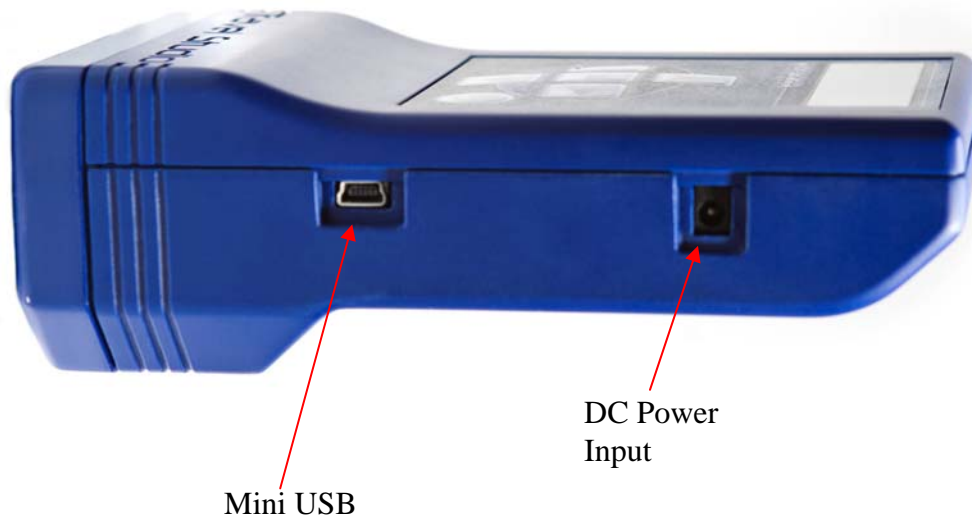
The TravelStudio is controlled by use of a simple 6-switch keypad on the front surface. The LEFT, RIGHT, UP, DOWN, and ENTER keys are used to navigate the menus and modify settings. Additionally, the POWER Switch is used to turn the unit on and off.



End View



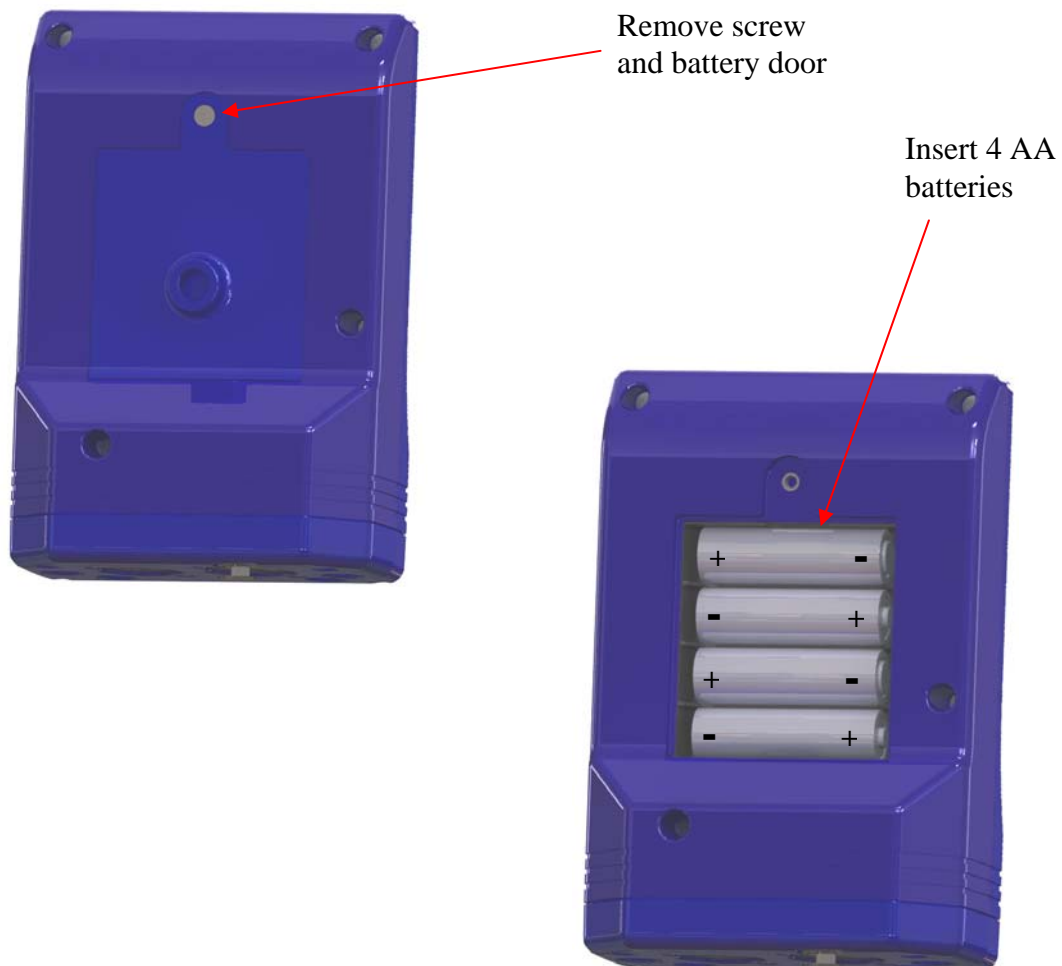
Side View



Quick Start Guide

Step 1: Install the batteries

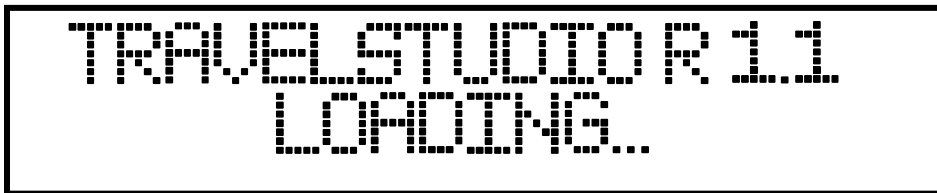
Remove the rear battery door with a screwdriver and install (4) AA batteries as shown below. Please note battery polarity indicators located on the bottom of the battery case. Batteries may be alkaline or rechargeable Nicad, NiMh, or Lithium technology.



Replace the battery door and tighten retaining screw after the batteries have been installed.

Step 2: Powerup

Press and hold the POWER key for at least 2 seconds. The display area will illuminate and the following splash screen will appear for about 3 seconds:



... followed by:



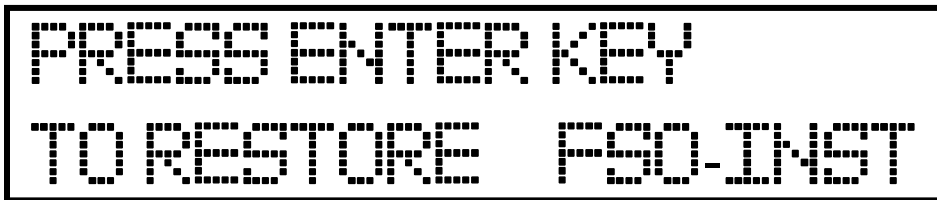
Step 4: Connect Your Audio Equipment

Connect your audio source, instrument and/or microphone, and headphones to the proper audio connector on the bottom end. Now, use the Factory Presets to configure the TravelStudio for your desired playback.



Step 5: Factory Presets

The first menu displayed is the Factory Presets menu. This menu includes some simple configurations designed to get the user up and running quickly.



To select between Factory Presets, press the UP or DWN keys to scroll through any of the available presets. When the desired preset value is displayed, press the ENTER key.

The first 2 Factory Preset settings are described on the following pages. Refer to the [Factory Presets Appendix](#) section for a detailed explanation of all factory presets.

Factory Preset FS0: INSTRUMENT SETUP

These settings will enable a stereo source plugged into the Audio input, and an instrument plugged into IN1 to be mixed equally in both Left and Right channels and sent to the Headphone.

CONTROL FEATURE	SETTING	NOTES
IN1 (TRS)	ON1	100%
IN2 (XLR/TS)	OFF	
IN2 PHANTOM POWER	OFF	
AUDIO INPUT	BYP	
PREAMP GAIN	10	db
HEADPHONE MIX	FX	
HEADPHONE VOLUME	10	db
DIGITAL EFFECTS	PLT1	
EFFECTS MIX	3	30%
EQ BAND1 (LF)	6	db
EQ BAND2	8	db
EQ BAND3	6	db
EQ BAND4	4	db
EQ BAND5 (HF)	2	db
IN1 DISTORTION	OFF	
LINEOUT MIX	OFF	
LINEOUT VOLUME	0	
FM TRANSMITTER ENABLE	OFF	
FM TRANSMITTER FREQUENCY	90.7	
BACKLIGHT SELECT	FLS	

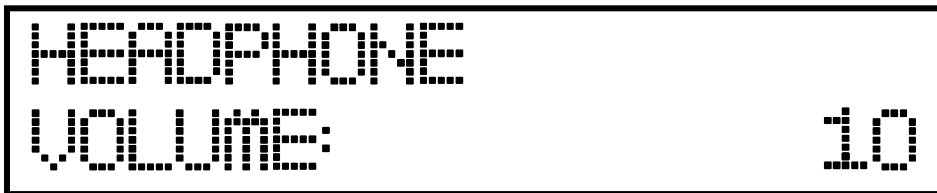
Factory Preset FS1: VOCAL SETUP

These settings will enable a stereo source plugged into the Audio input and a microphone plugged into IN2 to be mixed equally in both Left and Right channels and sent to the Headphone.

CONTROL FEATURE	SETTING	NOTES
IN1 (TRS)	OFF	100%
IN2 (XLR/TS)	ON1	100%
IN2 PHANTOM POWER	ON	
AUDIO INPUT	BYP	
PREAMP GAIN	18	db
HEADPHONE MIX	FX	
HEADPHONE VOLUME	10	db
DIGITAL EFFECTS	CRM1	
EFFECTS MIX	5	50%
EQ BAND1 (LF)	-3	db
EQ BAND2	3	db
EQ BAND3	6	db
EQ BAND4	10	db
EQ BAND5 (HF)	12	db
IN1 AMP SIMULATION	OFF	
LINEOUT MIX	OFF	
LINEOUT VOLUME	0	
FM TRANSMITTER ENABLE	OFF	
FM TRANSMITTER FREQUENCY	90.7	
BACKLIGHT SELECT	FLS	

Step 6: Adjust the Headphone Volume level

Press the RIGHT key until the Headphone Volume menu appears. While playing a song through the audio input, adjust the Headphone Volume to a comfortable level. Press the UP or DWN keys to adjust the volume between -6db (mute) and 29db (max). When the desired volume level is displayed, press the ENTER key again.



Step 7: Adjust the Preamp Gain level

Press the LEFT key until the Preamp Gain Level menu appears. While playing the instrument or speaking into the microphone, adjust the Gain Level to a proper level. Press the UP or DWN keys to adjust the gain between 0db (min) and 47.5db (max). To reach the optimum gain level, play the instrument at a maximum level and continue to increase the gain level until you just begin to hear distortion. Then decrease the gain level a few steps.



That's it! Enjoy using your TravelStudio!

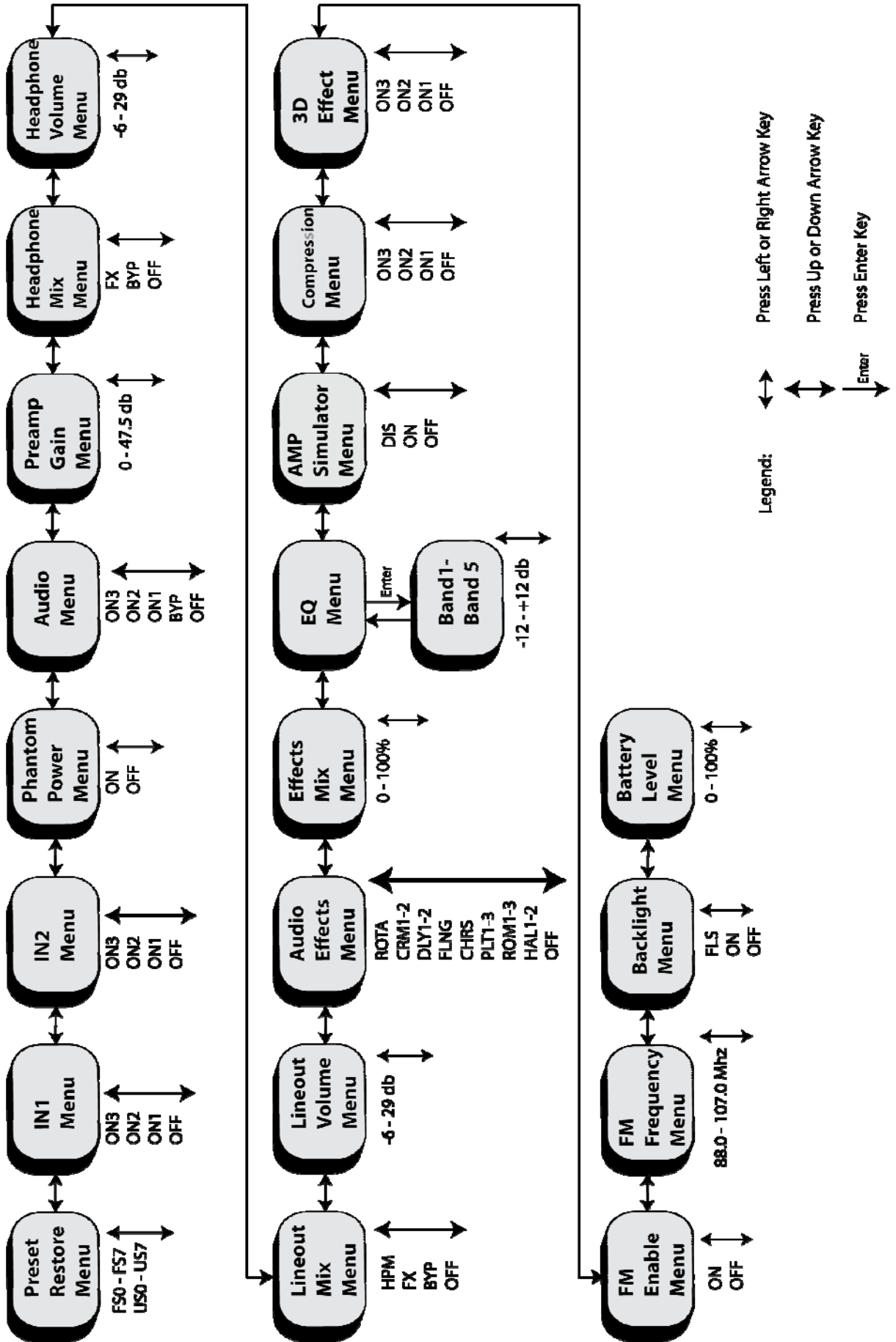
Description of Menu Items

After powerup, the menu items are accessed by pressing the LEFT and RIGHT arrow keys. Press and hold any key to generate multiple key-presses and to move quickly through the menu items.

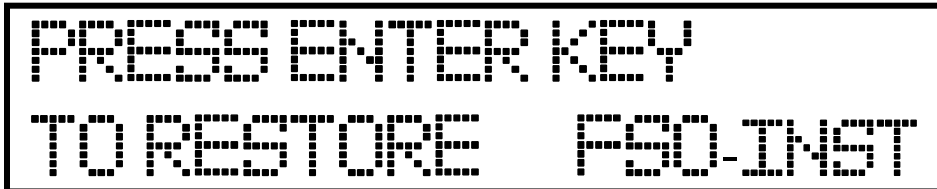
The next page contains a "Menu Tree" graphic, which can be used as a handy reference guide to all the menu items.

The following pages describe each menu item in detail and are presented in the same order as they appear on TravelStudio.

TravelStudio Menu Tree



1. FACTORY/USER PRESETS



The Factory Presets provide a simple method for setting up TravelStudio in some preconfigured modes. There are total of 8 Factory Presets, labeled FS0 through FS7.

To select between Factory Presets, press the UP or DWN keys to scroll through any of the available presets. When the desired preset value is displayed, press the ENTER key.

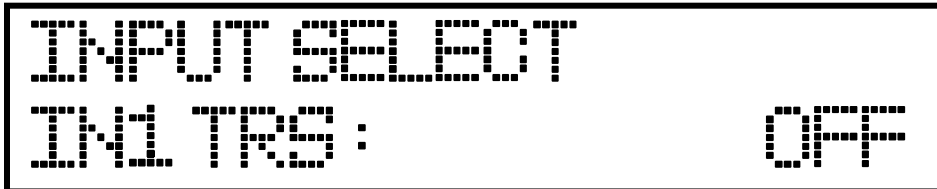
The details of these 8 presets can be found in the [Factory Presets Appendix](#).

Additionally, the user can create and store 8 different custom User Presets using the supplied computer application. Both Windows and MAC versions are available. Please refer to the “TravelStudio Windows/MAC USB Application” section of this document for instructions on installing and running this software.

Starting at the FS0-INST factory preset, The User Presets are accessed in successive locations by repetitively pressing the DWN arrow key.

Note: This menu is defined as the HOME menu.

2. INPUT SELECT IN1 (TRS):



This menu item controls the settings for instrument input IN1. IN1 is a ¼" mono TS jack.

There are 4 settings for IN1. Use the UP and DWN arrow keys to change the setting.

OFF IN1 is turned off

ON1 IN1 is turned on at 100% signal level

ON2 IN1 is turned on at 75% signal level

ON3 IN1 is turned on at 50% signal level

Note1: Preamp Gain is applied equally to all inputs, so ON1, ON2, and ON3 settings provide a separate method for balancing signal level between IN1 and IN2. This may prove useful for an instrument or microphone without independent volume control.

Note2: This input should be turned OFF when not in use to prevent unwanted background noise.

3. INPUT SELECT IN2 (XLR/TRS):



This menu item controls the settings for instrument input IN2. IN2 is a combo ¼" mono TS jack and balanced XLR microphone jack.

There are 4 settings for IN2. Use the UP and DWN arrow keys to change the setting.

OFF IN2 is turned off

ON1 IN2 is turned on at 100% signal level

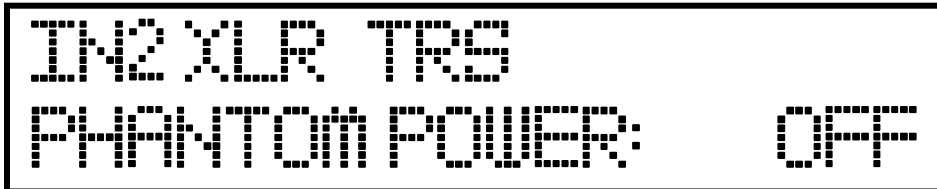
ON2 IN2 is turned on at 75% signal level

ON3 IN2 is turned on at 50% signal level

Note1: Preamp Gain is applied equally to all inputs, so ON1, ON2, and ON3 settings provide a separate method for balancing signal level between IN1 and IN2. This may prove useful for an instrument or microphone without independent volume control.

Note2: This input should be turned OFF when not in use to prevent unwanted background noise.

4. IN2(XLR/TRS) PHANTOM POWER:



This menu item controls +28V Phantom Power for instrument input IN2.

There are 2 settings for IN2 Phantom Power. Use the UP and DWN arrow keys to change the setting.

OFF IN2 Phantom Power is turned off

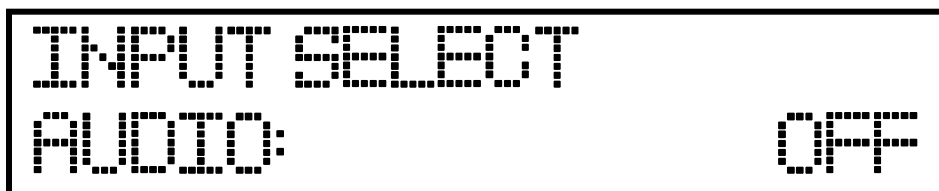
ON IN2 Phantom Power is turned on

Note: CAUTION!

Some ribbon microphones can be damaged by Phantom Power. Please be aware of the manufacturers instructions for any microphone plugged in to TravelStudio.

Note: This input should be turned OFF when not in use to prevent unwanted background noise.

5. INPUT SELECT AUDIO:



This menu item controls the settings for the AUDIO input jack. AUDIO is a 3.5mm stereo TRS jack.

There are 5 settings for AUDIO. Use the UP and DWN arrow keys to change the setting.

OFF AUDIO input is turned off

BYP AUDIO is turned on and Bypasses the FX chain. This is the most common use of the AUDIO input since accompaniment music is normally played unaltered.

ON1 AUDIO is turned on at 100% signal level and routed through the FX chain

ON2 AUDIO is turned on at 75% signal level and routed through the FX chain

ON3 AUDIO is turned on at 50% signal level and routed through the FX chain

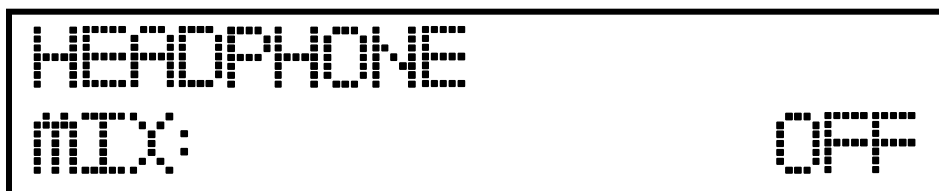
6. PREAMP GAIN:



This menu item controls the Preamp Gain for both inputs IN1 and IN2. Preamp Gain is also applied to the AUDIO input only when its setting is anything other than Bypass (BYP).

Preamp Gain is adjusted in .5db steps and can vary between 0 (0 db) and 47.5 (47.5 db) of gain. Use the UP and DWN arrow keys to change the setting.

7. HEADPHONE MIX:



This menu item controls the mix sent to the Headphone output connector. The Headphone output connector is a 3.5mm TRS stereo jack.

There are 3 settings for Headphone Mix:

- OFF Headphone Mix is turned off

- BYP Headphone Mix is turned on and bypasses the FX chain.

- FX Headphone Mix is turned on and routed through the FX chain

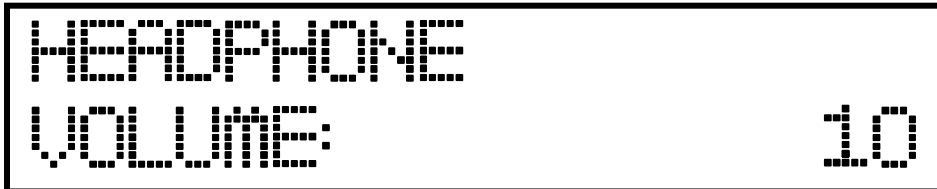
The Headphone Mix, used in conjunction with Digital Effects and EQ, create the right blend of sound to make your music session enjoyable.

In Bypass mode, the combined signals from IN1, IN2, and AUDIO are mixed and sent straight to the Headphone without alteration.

In FX mode, the combined signal from IN1, IN2, and AUDIO are routed through the DSP Effects Processors (FX) where those effects chosen in the Digital Effects menu are applied

to the mix. Additionally, the tone settings chosen in the EQ menu are applied to increase and decrease gain in 5 separate frequency bands.

8. HEADPHONE VOLUME:



This menu item controls the volume output at the headphone connector.

Headphone Volume is adjusted in 1db steps and can vary between -6 (-6 db) and 29 (29 db) of gain. Use the UP and DWN arrow keys to change the setting.

9. LINEOUT MIX:



This menu item controls the mix sent to the Lineout output connectors, OUT1 and OUT2. The OUT1 output connector is a balanced mono XLR jack. The OUT2 output connector is an unbalanced mono ¼" TS jack. OUT1 and OUT2 are independent outputs that can be used separately or simultaneously.

There are 4 settings for Lineout Mix:

- OFF Lineout Mix is turned off
- BYP Lineout Mix is turned on and bypasses the FX chain.
- FX Lineout Mix is turned on and routed through the FX chain
- HPM Lineout Mix is identical to the Headphone Mix.

The Lineout Mix, used in conjunction with Digital Effects and EQ, create the right blend of sound to make your music session enjoyable.

In Bypass mode, the combined signals from IN1 and IN2 are mixed and sent straight to the Lineout connectors without effects or alteration.

In FX mode, the combined signal from IN1, IN2 are routed through the DSP Effects Processors (FX) where those effects chosen in the Digital Effects menu are applied to the mix. Additionally, the tone settings chosen in the EQ menu are applied to increase and decrease gain in 5 separate frequency bands.

HPM (headphone) mode is identical to FX mode, except that the Audio input is combined with IN1 and IN2 and sent to the Lineout. Use this mode when playing live performances using prerecorded backing tracks.

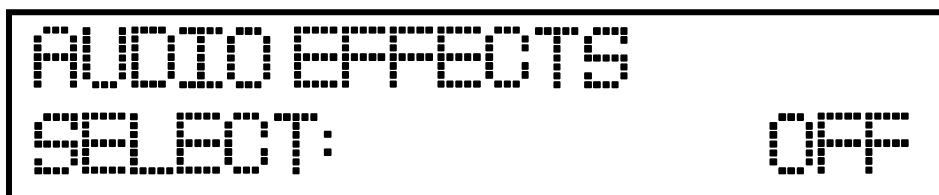
10. LINEOUT VOLUME:



This menu item controls the volume output at the lineout connectors, OUT1 and OUT2.

Lineout Volume is adjusted in 1db steps and can vary between -6 (-6 db) and 29 (29 db) of gain. Use the UP and DWN arrow keys to change the setting.

11. AUDIO EFFECTS SELECT:



This menu item controls the Audio Effect applied to both the Headphone and Lineout mix. Use the UP and DWN arrow keys to change the setting.

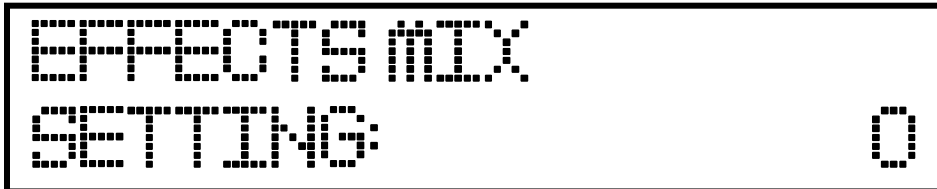
There are 15 settings for Digital Effect Select:

- OFF All Audio Effects are Off
- HAL1 Hall1 Reverb Audio Effect is applied
- HAL2 Hall2 Reverb Audio Effect is applied
- ROM1 Room1 Reverb Audio Effect is applied
- ROM2 Room2 Reverb Audio Effect is applied
- ROM3 Room3 Reverb Audio Effect is applied
- PLT1 Plate1 Reverb Audio Effect is applied
- PLT2 Plate2 Reverb Audio Effect is applied
- PLT3 Plate3 Reverb Audio Effect is applied
- CHRS Chorus Audio Effect is applied

TravelStudio - Menu Items

FLNG	Flanger Audio Effect is applied
DLY1	Delay1 Audio Effect is applied
DLY2	Delay2 Audio Effect is applied
CRM1	Chorus and Room1 Reverb Audio Effect is applied
CRM2	Chorus and Room2 Reverb Audio Effect is applied
ROTA	Rotator Audio Effect is applied

12. EFFECTS MIX SETTING:



This menu item controls the amount of Digital Effect (chosen in the [Digital Effects Menu](#)) that is applied to the mix.

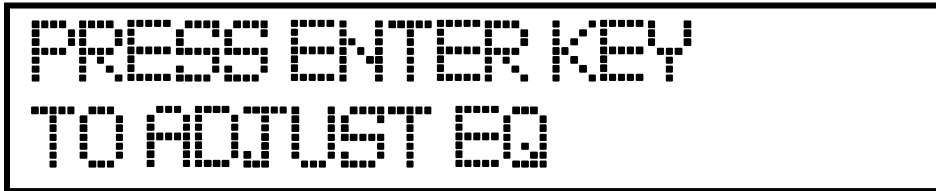
The Effects Mix Setting is adjusted in 5% steps (between 0 and 2) and 10% steps (between 2 and 10), and can vary between 0 (0%) and 10 (100%).

When set to 0, the straight signal with no effect will be applied to the mix.

When set to 1 (10%), the effect will be applied as only 10% of the final mix, and the straight signal applied as 90%. Only a small amount of the effect will be heard in this mix.

When set to 9 (90%), the effect will be applied as 90% of the final mix, and the straight signal applied as 10%. The effect will dominate the sound of this mix.

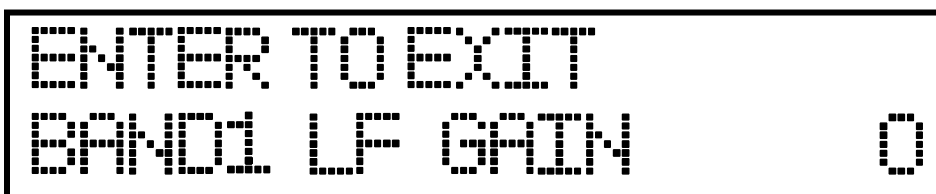
13. ADJUST EQ:



PRESS ENTER KEY
TO ADJUST EQ

This menu item controls the Equalizer settings. The Equalizer can be used to adjust the relative signal level within 5 separate frequency bands. The signal level can be adjusted by +/- 12db in each band.

To adjust EQ, first press the ENTER key. You are now in the EQ menu. Pressing the ENTER key again will exit the EQ menu to the top level menu.



ENTER TO EXIT
BAND1 LF GAIN 0

Pressing the RIGHT and LEFT arrow keys will scroll between the settings for BAND1 through BAND5. The five frequency bands are defined as follows:

BAND1	Centered at 100 Hz (low frequency)
BAND2	Centered at 330 Hz
BAND3	Centered at 1000 Hz
BAND4	Centered at 3300 Hz
BAND5	Centered at 10000 Hz (high frequency)

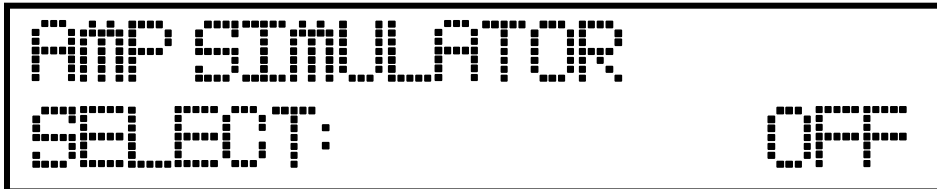
Pressing the UP and DWN arrow keys will change the setting for each BAND from -12db to +12db. A setting of 0db will pass the signal for that BAND without any modification. Changing the setting in the positive direction will increase

the signal level for frequencies within the prescribed BAND. Changing the setting in the negative direction will decrease the signal level for frequencies within the prescribed BAND.

Perhaps the most effective way to adjust the EQ is to play a connected instrument or microphone while scrolling the levels in each BAND up and down.

After the mix has been adjusted, pressing the ENTER key again will exit the EQ menu to the top level menu.

14. AMP SIMULATOR:

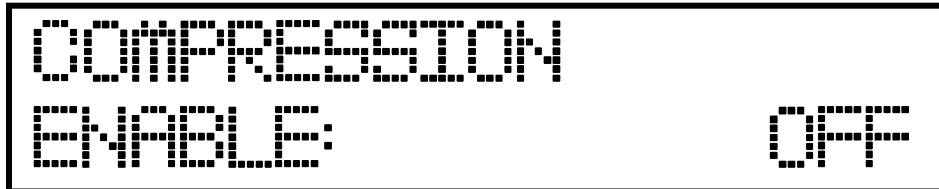


This menu item controls the Amp Simulator and distortion settings for instrument input IN1.

There are 3 settings for IN1 Distortion. Use the UP and DWN arrow keys to change the setting.

- OFF IN1 Amplifier Simulation is turned off
- ON IN1 Amplifier (or Cabinet) Simulation is turned on
- DIS IN1 Amplifier Simulation and Distortion are both turned on

15. COMPRESSION:



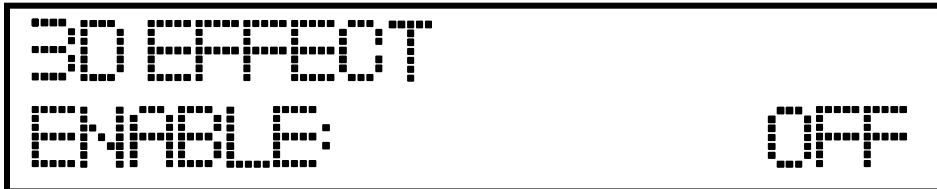
This menu item controls the Dynamic Range Compression settings, also called DRC or simply compression. Compression is a means for controlling the dynamic range of an audio signal and is useful when the user wants to limit the extreme highs and lows of instrument or vocal inputs.

Note: This feature will really improve the performance of the FM Transmitter by limiting the signal overload and thus providing a more even sound at the FM receiver.

There are 4 settings for Lineout Mix:

- OFF Compression is turned off
- ON1 Compression is turned on in mode 1 – a light compression good for vocals
- ON2 Compression is turned on in mode 2 – a more responsive compression for louder instruments
- ON3 Compression is turned on in mode 3 – a heavier compression designed to generate a “late night, mellow” sound

16. 3D EFFECT:

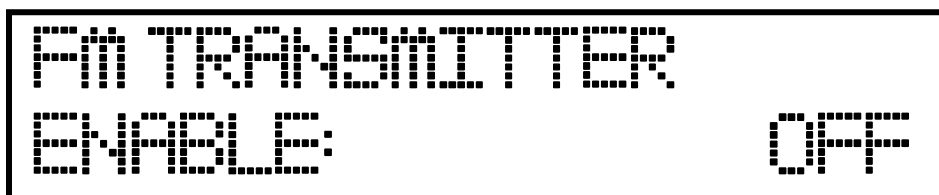


This menu item controls the 3D Stereo Effect, which modifies the apparent location of the affected sound within the stereo field. Use this effect when playing an instrument along with backing tracks, to place the instrument at progressively wider points in stereo space and thus “distance” the instrument from the accompaniment.

There are 4 settings for 3D Effect:

- OFF 3D Effect is turned off
- ON1 3D Effect is turned on in wide mode
- ON2 3D Effect is turned on in wider mode
- ON3 3D Effect is turned on in widest mode

17. FM TRANSMITTER ENABLE:



This menu item controls built-in FM transmitter enable.

There are 2 settings for IN2 Phantom Power:

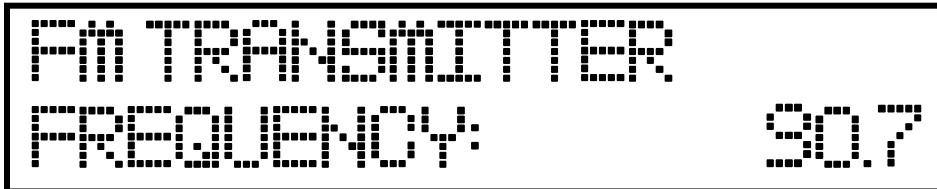
OFF FM transmitter is turned off

ON FM transmitter is turned on

The FM Transmitter provides a unique ability to transmit the mix directly to any nearby FM receiver. The Headphone Mix Menu controls the mix sent to the FM Transmitter and must therefore be enabled to generate any signal to the FM Transmitter. The FM Transmission Frequency can be selected within the FM Transmitter Frequency menu.

Note: Enabling Dynamic Compression will really improve the performance of the FM Transmitter by limiting the signal overload and thus providing a more even sound at the FM receiver.

18. FM TRANSMITTER FREQUENCY:

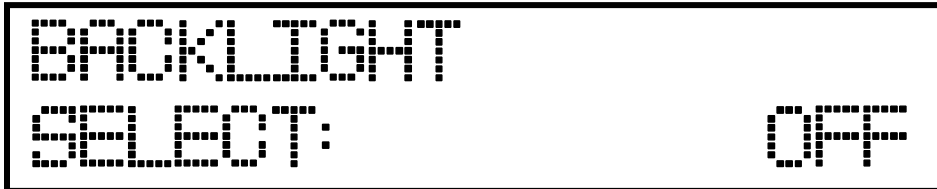


This menu item controls built-in FM transmitter frequency.

FM transmitter frequency is adjusted in .1MHz steps and can vary between 88.5 MHz and 108 MHz. Use the UP and DWN arrow keys to change the setting.

The best performance can be achieved by choosing a frequency not used by radio stations in the local area.

19. BACKLIGHT SELECT:



This menu item controls the display backlight.

There are 3 settings for display backlight:

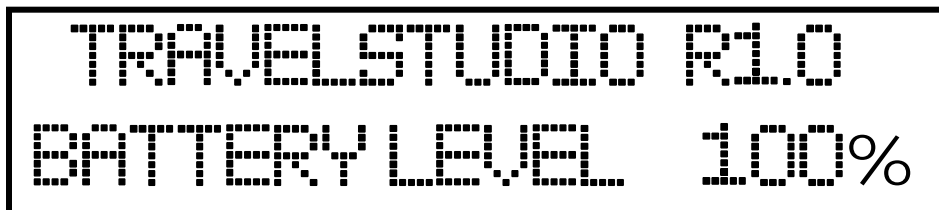
OFF display backlight is turned off always

ON display backlight is turned on always

FLS flash mode - display backlight is turned on for
 about 30 seconds after each key press

The display backlight helps improve the legibility of the display under most lighting conditions. Flash mode should be used when powering TravelStudio with batteries.

20. BATTERY LEVEL:



```
TRAVELSTUDIO R1.0
BATTERY LEVEL 100%
```

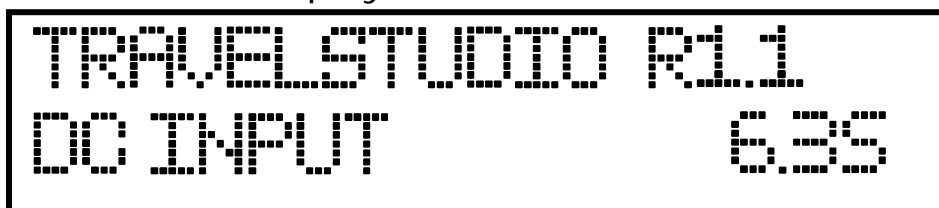
This menu item provides the current firmware revision level, and a rough indication of remaining battery capacity. This is purely a status display.

- 100% - Batteries are at full capacity
- 50% - Batteries are at half capacity
- 10% - Batteries are nearly empty and will soon need to be replaced

When the batteries have reached an empty level, a warning message will be displayed:
"REPLACE BATTERIES!!!"

A countdown timer will begin counting down from 30 to 0, then TravelStudio will save all user settings and power off automatically. This will save the rechargeable batteries from becoming overly discharged, which may shorten their useful life.

When the external DC power supply is connected, this screen will be displayed as:



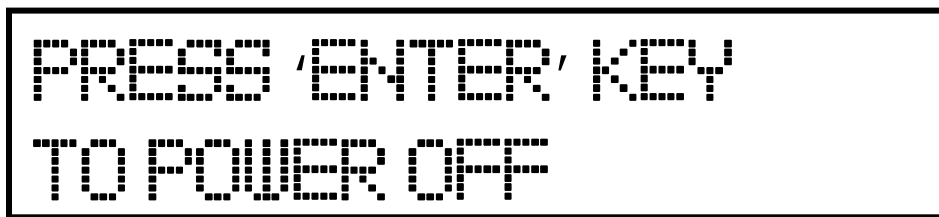
```
TRAVELSTUDIO R1.1
DC INPUT 6.35
```

Special Functions

All-Mute On

The All-Mute function is accessed using the POWER Key. Press and hold the POWER key for 2 seconds.

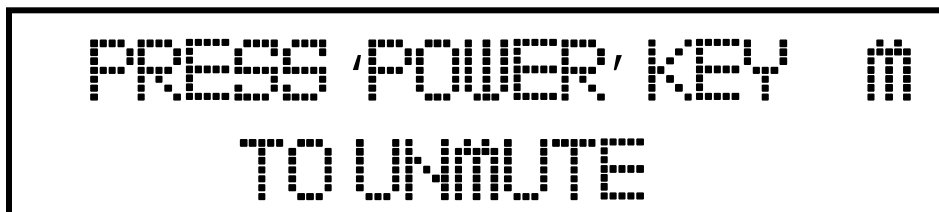
The following screen will be displayed:



```
PRESS 'ENTER' KEY  
TO POWER OFF
```

(Do Not Press the POWER Key now unless you are ready to power the unit off.)

followed by:



```
PRESS 'POWER' KEY M  
TO UNMUTE
```

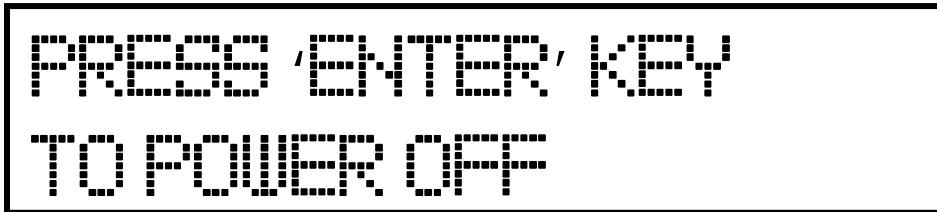
Notice the “M” character in the upper right corner. This character will remain on the display until the All-Mute function is disabled, as a reminder that all outputs are muted.

You are free at this point to navigate to any of the other menus and set up TravelStudio with the All-Mute active.

All-Mute Off

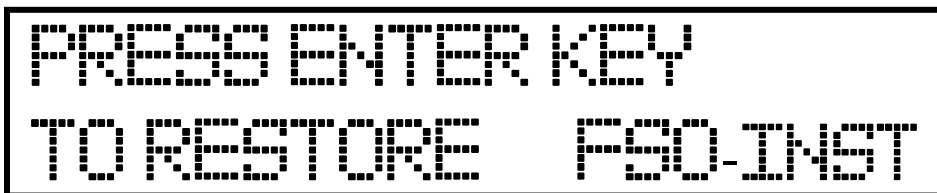
Press and hold the POWER key for 2 seconds.

The following screen will be displayed:



(Do Not Press the POWER Key now unless you are ready to power the unit off.)

followed by:

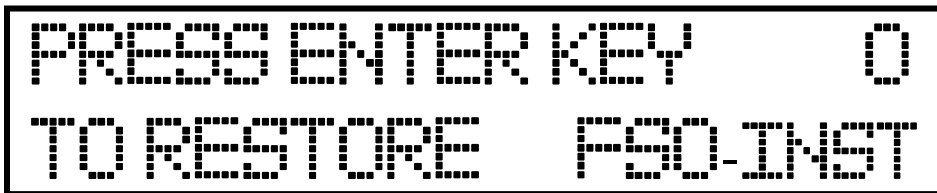


Notice the "M" character in the upper right corner, has been cleared and the menu item has been restored to the HOME position.

Input Overload

If at any point the input signal level on IN1 or IN2 reaches a level that would result in distortion, a warning character “O” will be displayed in the upper right corner of the display. This character will be momentary and last for 1 or 2 seconds. If this occurs, either reduce the PREAMP GAIN level, or reduce the external signal level of the input.

For example:

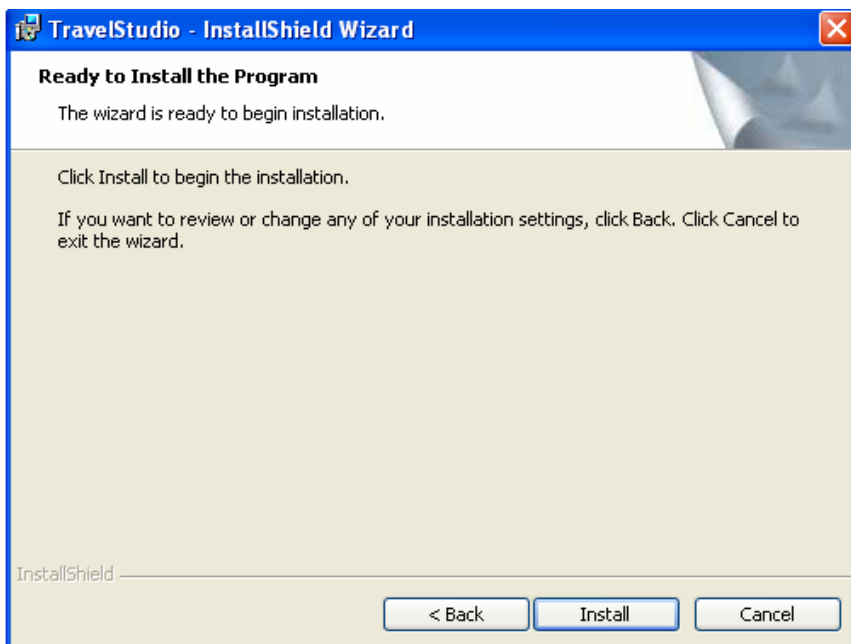
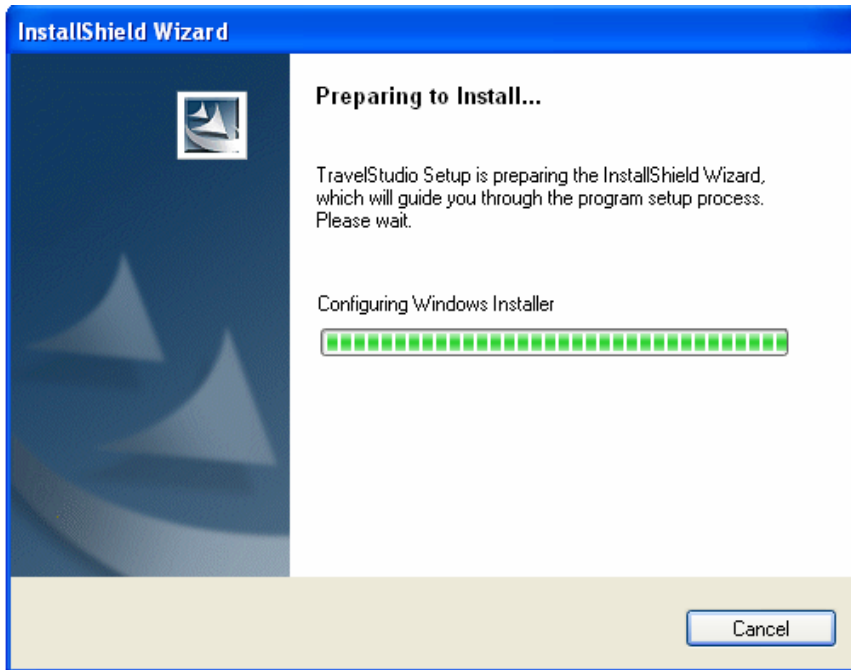


The “O” appears in the upper right corner of the currently displayed menu item for 1 or 2 seconds

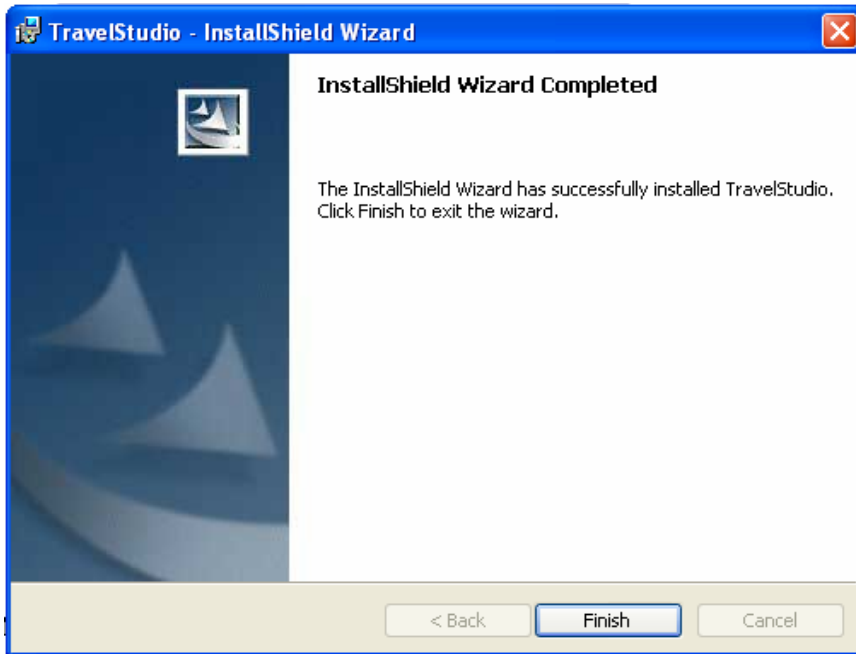
TravelStudio Windows/MAC USB Application

Software Installation

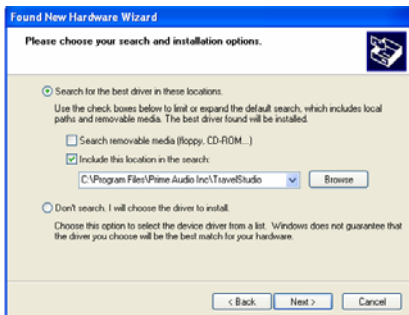
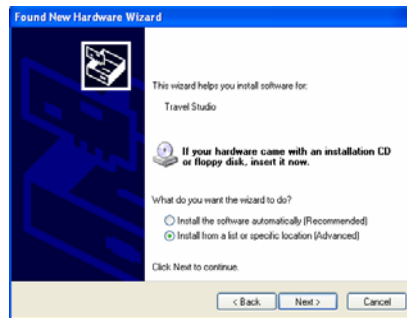
Insert the TravelStudio CD into your CD tray and follow the installation instructions as they appear on your screen.



TravelStudio – Software Installation

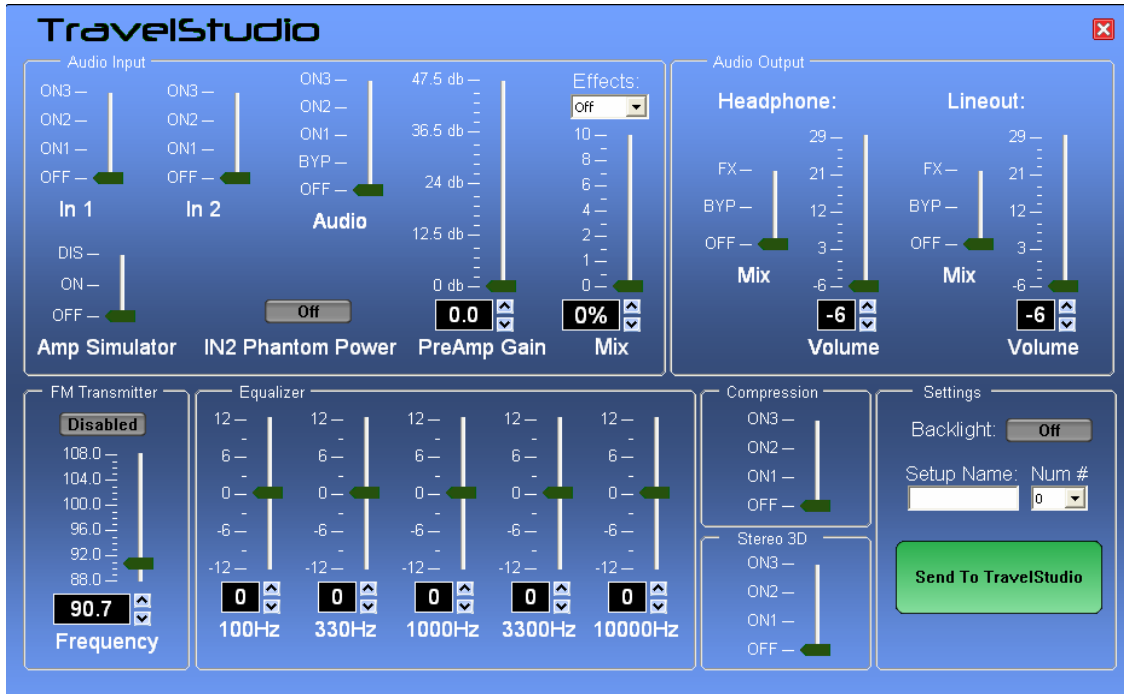


Now connect the included USB cable from TravelStudio's USB port to a spare USB connector on your PC or Mac. Follow the on-screen instructions to load the USB driver from C:\Program Files\Prime Audio Inc\TravelStudio, as demonstrated below.



Launch the Application

After the USB driver has been loaded, go to the Start Menu and Launch TravelStudio. The following screen appears:



The TravelStudio Control Panel provides a convenient and comprehensive method for configuration and easy retrieval of preset states. Every configurable parameter is included on this screen, along with a simple method for naming and downloading to TravelStudio.

Configuration

Step 1: Connect the included USB cable from your computer to the TravelStudio USB port.

Step 2: Move the slider bars in each section to select the desired inputs, outputs, EQ, and Effects for your application. Don't forget to enable the Phantom Power for microphones attached to IN2. You may want to leave the Backlight turned on for all presets.

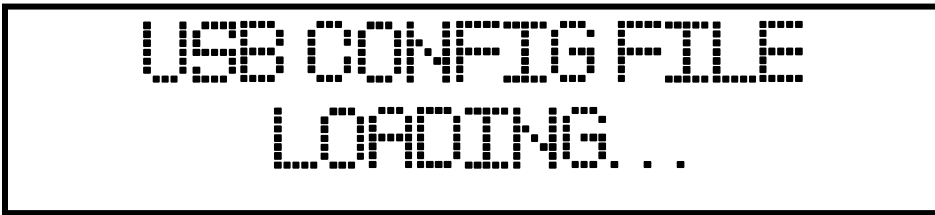
Step 3: Type a name into the "Setup Name" field in the bottom right corner. The name can be made up of any combination of characters,

TravelStudio – Software Installation

but no more than 8 characters. For example: VOCAL01, EL_GUITR, Acoustic, FM_101.0.

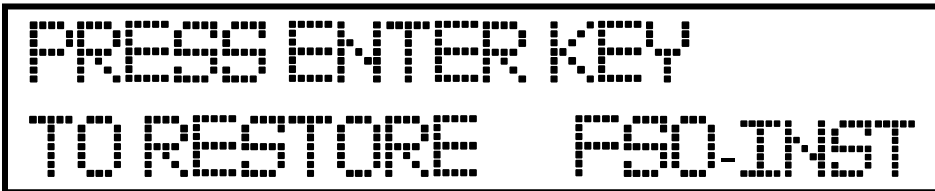
Step 4: Choose a number from the “Num#” pull-down box. There are 8 possible choices labeled 0-7. Be careful when writing over previously configured setups, because there is no warning that a previous setup is about to be erased.

Step 5: Click on the “Send to TravelStudio” button. The legend will change briefly to “Sending”. On TravelStudio, the following screen will be displayed for about 2 seconds:



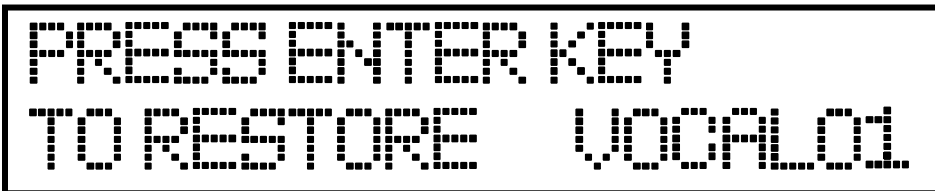
USB CONFIG FILE
LOADING ..

Step 6: Go to the HOME menu:



PRESS ENTER KEY
TO RESTORE F90-INST

... and press the DWN arrow key and the “Setup Name” saved in Step 3 to Setup “Num# 0” will be displayed as below.



PRESS ENTER KEY
TO RESTORE VOCAL01

If other Setups were saved, those presets (Setup “Num# 1-7”) can be accessed successively by repetitively pressing the DWN arrow key.

Mounting TravelStudio

TravelStudio mounting features were designed to provide convenience and flexibility. The mounting point shown on the rear is a 1/4-20 (quarter-twenty) female thread.



TravelStudio Mounting Point



Mounting Adapter

This type of thread is commonly used on photographic equipment, so there are a number of readily available adapters to fit. Your TravelStudio comes supplied with an adapter that has a 1/4-20 male stud on one end, and a female microphone thread adapter on the opposite end. Using this adapter, you can mount TravelStudio in the way that best suits your needs.

Specifications

Travel Studio Specifications	
Analog Inputs	(1) balanced ¼" TS/ XLR Combo mono; (1) unbalanced ¼" TS mono; (1) stereo 3.5mm TRS
Analog Outputs	(1) balanced XLR; (1) unbalanced ¼" TRS; (1) 3.5mm TRS stereo headphone
Digital I/O	(1) mini USB
Internal Sampling Resolution	20 bits
Internal Sampling Rate	48 kHz
FM Transmitter	Worldwide FM band support (88–108 MHz)
Phantom Power	28.0 VDC
Power Supply	6 VDC external; 4 AA alkaline, NiCad or Lithium cells internal
Dimensions	3.8" (W) x 5.8" (H) x 1.5" (D)
Weight	8 ounces (not including batteries)

Factory Presets Appendix

Factory Preset FS0-INST: INSTRUMENT with AUDIO SETUP

These settings will enable a stereo source plugged into the Audio input, and an instrument plugged into IN1 to be mixed equally in both Left and Right channels and sent to the Headphone. A 20% mix of Plate Reverb1 will be added.

CONTROL FEATURE	SETTING	NOTES
IN1 (TRS)	ON1	100%
IN2 (XLR/TS)	OFF	
IN2 PHANTOM POWER	OFF	
AUDIO INPUT	BYP	
PREAMP GAIN	10	db
HEADPHONE MIX	FX	
HEADPHONE VOLUME	10	db
LINEOUT MIX	OFF	
LINEOUT VOLUME	0	db
DIGITAL EFFECTS	PLT3	
EFFECTS MIX	3	20%
EQ BAND1 (LF)	3	db
EQ BAND2	5	db
EQ BAND3	2	db
EQ BAND4	3	db
EQ BAND5 (HF)	0	db
IN1 AMP SIMULATOR	OFF	
DYNAMIC COMPRESSION	OFF	
STEREO 3D EFFECT	OFF	
FM TRANSMITTER ENABLE	OFF	
FM TRANSMITTER FREQUENCY	90.7	
BACKLIGHT SELECT	ON	

Factory Preset FS1-VOCL: VOCAL with AUDIO SETUP

These settings will enable a stereo source plugged into the Audio input and a microphone plugged into IN2 to be mixed equally in both Left and Right channels and sent to the Headphone. A 30% mix of Chorus/Room Reverb1 will be added, and Compression Setting 1 enabled.

CONTROL FEATURE	SETTING	NOTES
IN1 (TRS)	OFF	
IN2 (XLR/TS)	ON1	100%
IN2 PHANTOM POWER	ON	
AUDIO INPUT	BYP	
PREAMP GAIN	18	db
HEADPHONE MIX	FX	
HEADPHONE VOLUME	10	db
LINEOUT MIX	OFF	
LINEOUT VOLUME	0	db
DIGITAL EFFECTS	CRM1	
EFFECTS MIX	3	30%
EQ BAND1 (LF)	0	db
EQ BAND2	0	db
EQ BAND3	0	db
EQ BAND4	2	db
EQ BAND5 (HF)	0	db
IN1 AMP SIMULATOR	OFF	
DYNAMIC COMPRESSION	ON1	
STEREO 3D EFFECT	OFF	
FM TRANSMITTER ENABLE	OFF	
FM TRANSMITTER FREQUENCY	90.7	
BACKLIGHT SELECT	ON	

Factory Preset FS2-VOIN: VOCAL AND INSTRUMENT SETUP

These settings will enable a stereo source plugged into the Audio input, an instrument plugged into IN1, and a microphone plugged into IN2 to be mixed equally in both Left and Right channels and sent to the Headphone.

CONTROL FEATURE	SETTING	NOTES
IN1 (TRS)	ON1	
IN2 (XLR/TS)	ON1	100%
IN2 PHANTOM POWER	ON	
AUDIO INPUT	BYP	
PREAMP GAIN	10	db
HEADPHONE MIX	FX	
HEADPHONE VOLUME	10	db
LINEOUT MIX	OFF	
LINEOUT VOLUME	0	db
DIGITAL EFFECTS	CRM1	
EFFECTS MIX	3	30%
EQ BAND1 (LF)	0	db
EQ BAND2	0	db
EQ BAND3	0	db
EQ BAND4	0	db
EQ BAND5 (HF)	0	db
IN1 AMP SIMULATOR	OFF	
DYNAMIC COMPRESSION	OFF	
STEREO 3D EFFECT	ON1	
FM TRANSMITTER ENABLE	OFF	
FM TRANSMITTER FREQUENCY	90.7	
BACKLIGHT SELECT	ON	

Factory Preset FS3-VILO: VOCAL & INSTR WITH LINE OUT

These settings will enable a stereo source plugged into the Audio input, an instrument plugged into IN1, and a microphone plugged into IN2 to be mixed equally in both Left and Right channels and sent to the Headphone. Line Out is also enabled in FX mode.

CONTROL FEATURE	SETTING	NOTES
IN1 (TRS)	ON2	70%
IN2 (XLR/TS)	ON1	100%
IN2 PHANTOM POWER	ON	
AUDIO INPUT	BYP	
PREAMP GAIN	18	
HEADPHONE MIX	FX	
HEADPHONE VOLUME	10	
LINEOUT MIX	FX	
LINEOUT VOLUME	0	db
DIGITAL EFFECTS	CRM1	
EFFECTS MIX	3	30%
EQ BAND1 (LF)	0	db
EQ BAND2	0	db
EQ BAND3	0	db
EQ BAND4	2	db
EQ BAND5 (HF)	0	db
IN1 AMP SIMULATOR	OFF	
DYNAMIC COMPRESSION	OFF	
STEREO 3D EFFECT	OFF	
FM TRANSMITTER ENABLE	OFF	
FM TRANSMITTER FREQUENCY	90.7	
BACKLIGHT SELECT	ON	

Factory Preset FS4-VIFM: VOCAL & INSTR WITH FM

These settings will enable a stereo source plugged into the Audio input, an instrument plugged into IN1, and a microphone plugged into IN2 to be mixed equally in both Left and Right channels and sent to the Headphone. The FM Transmitter is enabled and tuned to Channel 90.7.

CONTROL FEATURE	SETTING	NOTES
IN1 (TRS)	ON2	70%
IN2 (XLR/TS)	ON1	100%
IN2 PHANTOM POWER	ON	
AUDIO INPUT	BYP	
PREAMP GAIN	18	
HEADPHONE MIX	FX	
HEADPHONE VOLUME	10	
LINEOUT MIX	FX	
LINEOUT VOLUME	0	db
DIGITAL EFFECTS	CRM1	
EFFECTS MIX	3	30%
EQ BAND1 (LF)	4	db
EQ BAND2	4	db
EQ BAND3	6	db
EQ BAND4	4	db
EQ BAND5 (HF)	2	db
IN1 AMP SIMULATOR	OFF	
DYNAMIC COMPRESSION	ON3	
STEREO 3D EFFECT	OFF	
FM TRANSMITTER ENABLE	ON	
FM TRANSMITTER FREQUENCY	90.7	
BACKLIGHT SELECT	ON	

Factory Preset FS5-INDS: Instrument with Distortion

These settings will enable a stereo source plugged into the Audio input and a microphone plugged into IN2 to be mixed equally in both Left and Right channels and sent to the Headphone.

CONTROL FEATURE	SETTING	NOTES
IN1 (TRS)	ON1	100%
IN2 (XLR/TS)	OFF	
IN2 PHANTOM POWER	OFF	
AUDIO INPUT	BYP	
PREAMP GAIN	0	db
HEADPHONE MIX	FX	
HEADPHONE VOLUME	10	db
LINEOUT MIX	OFF	
LINEOUT VOLUME	0	db
DIGITAL EFFECTS	PLT3	
EFFECTS MIX	3	30%
EQ BAND1 (LF)	0	db
EQ BAND2	0	db
EQ BAND3	0	db
EQ BAND4	0	db
EQ BAND5 (HF)	0	db
IN1 AMP SIMULATOR	DIS	
DYNAMIC COMPRESSION	OFF	
STEREO 3D EFFECT	OFF	
FM TRANSMITTER ENABLE	OFF	
FM TRANSMITTER FREQUENCY	90.7	
BACKLIGHT SELECT	ON	

Factory Preset FS6-INFM: Instrument with FM Enabled

These settings will enable a stereo source plugged into the Audio input and a microphone plugged into IN2 to be mixed equally in both Left and Right channels and sent to the Headphone.

CONTROL FEATURE	SETTING	NOTES
IN1 (TRS)	ON1	100%
IN2 (XLR/TS)	OFF	
IN2 PHANTOM POWER	OFF	
AUDIO INPUT	BYP	
PREAMP GAIN	0	db
HEADPHONE MIX	FX	
HEADPHONE VOLUME	10	db
LINEOUT MIX	OFF	
LINEOUT VOLUME	0	db
DIGITAL EFFECTS	PLT3	
EFFECTS MIX	3	30%
EQ BAND1 (LF)	0	db
EQ BAND2	0	db
EQ BAND3	0	db
EQ BAND4	0	db
EQ BAND5 (HF)	0	db
IN1 AMP SIMULATOR	OFF	
DYNAMIC COMPRESSION	ON2	
STEREO 3D EFFECT	OFF	
FM TRANSMITTER ENABLE	ON	
FM TRANSMITTER FREQUENCY	90.7	
BACKLIGHT SELECT	ON	

Factory Preset FS7-VOLO: Vocal with Line Out

These settings will enable a stereo source plugged into the Audio input and a microphone plugged into IN2 to be mixed equally in both Left and Right channels and sent to the Headphone.

CONTROL FEATURE	SETTING	NOTES
IN1 (TRS)	OFF	
IN2 (XLR/TS)	ON1	100%
IN2 PHANTOM POWER	ON	
AUDIO INPUT	BYP	
PREAMP GAIN	18	db
HEADPHONE MIX	FX	
HEADPHONE VOLUME	10	db
LINEOUT MIX	FX	
LINEOUT VOLUME	0	db
DIGITAL EFFECTS	CRM1	
EFFECTS MIX	3	30%
EQ BAND1 (LF)	0	db
EQ BAND2	0	db
EQ BAND3	0	db
EQ BAND4	0	db
EQ BAND5 (HF)	0	db
IN1 AMP SIMULATOR	OFF	
DYNAMIC COMPRESSION	ON1	
STEREO 3D EFFECT	OFF	
FM TRANSMITTER ENABLE	OFF	
FM TRANSMITTER FREQUENCY	90.7	
BACKLIGHT SELECT	ON	