ZFX STACK PACKAGE / ZFX CONTROL PACKAGE ZFX PILG-in Operation Manual





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Contents

Introduction		
Features	of USB Audio Interface S2t / USB Audio Interface C5.1t	
Features	of ZFX Plug-in	
Controls and Fund	ctions of ZFX Plug-in	
Quick Guide		
Starting	<u>up</u> ·····	
Selecting	g input source	
Selecting	g patches	
Controlli	ng Amplifiers	
Magnifyi	ng and scrolling the Effect Area	
Controlli	ng Effectors ·····	
Selectino	g Instruments	
Storing p	patches ·····	
Signal Control Are	<u>ea</u>	
Controls	and Functions	
Selecting	g input source ·····	
Selecting	g pickups ·····	
Showing	/Hiding frames	
Adjusting	g patch level	
Adjusting	g master level	
About th	e connection state	
Basic Operation		
Catalog		
Starting	up the Catalog	
Catalog	- Basic operation	
	Turning pages	
	Turning a number of pages	
	Jumping pages by index	
Jumping	to detail page·····	
Selecting	g Instruments from detail page·····	
Amplifying Area		
Controls	and Functions	
Amplifier	r Section - Basic operation	
<u>.</u>	Setting Amplifiers	
	Adjusting Amplifiers	
	Deleting Amplifiers	
Booth Se	ection - Basic operation	
	Setting Cabinets and Microphones	
	Deleting Cabinets and Microphones	
	Replacing Microphones	
	Adjusting the microphone distance	
	Adjusting the microphone position	

Effect Area (
	Controls and Functions	038				
	Signal flow of Effect Area					
	Selecting/Adjusting instruments	039				
	Setting instruments ·····	039				
	Positioning instruments	··· 040				
	Adjusting instruments ·····	··· 041				
	Deleting instruments	··· 041				
	Magnifying and Scrolling ·····	042				
	Magnifying the Effect Area ······	··· 042				
	Zooming up the instrument	043				
	Zoom to next instrument·····	044				
	Scrolling the Effect Area ·····	··· 044				
	<u>Wiring shields</u>	045				
	Connecting a shield ······	045				
	Changing the shield connection	046				
	Connecting directly to input / output	047				
	Deleting shields	048				
	Splitters and Mixers	049				
	Operating Splitters	049				
	Operating Mixers ·····	050				
	Amplifier Module	053				
	Operating Multiple Amplifier Modules	053				
	Deleting Amplifier Modules	054				
Patch Ma	anagement ·····	055				
	Starting up the Patch Manager ·····	055				
	Operating patches	056				
	Selecting patches	056				
	Storing patches	058				
	Storing to certain destination	059				
	Ordering patches	062				
	Renaming patches	064				
	Deleting patches	065				
	Clearing the current setting	066				
	Exporting current setting	067				
	Importing current setting	068				
	Operating banks	069				
	Creating a bank	069				
	Ordering banks	070				
	Renaming banks	071				
	Deleting banks	072				
	Exporting banks	074				
	Importing banks	075				
Bypassin	g Area ·····	077				
	Controls and Functions	077				
	Bypassing the sound	077				

	Muting the sound ·····				
	Comparing current and original state				
Tuner					
	Starting up the tuner ······				
	Using the chromatic tuner				
	Adjusting the calibration				
	Dropping halftone ·····				
	Dropping whole tone				
	Using other tuner types				
Expression pedal and foot switches					
	Starting up the Pedal/Switch Manager ·····				
	The Pedal/Switch Manager with the C5.1t connection				
	The Pedal/Switch Manager with the S2t connection				
	Assigning parameters				
	Assigning parameters to expression pedal				
	Assigning parameters to foot switches				
	Adjusting the parameter range				
	Deleting the assignment ·····				
	Assigning Global Settings				
	Assigning next/previous patch selection ·····				
	Assigning next/previous bank selection				
	Assigning the patch selection				
	Assigning the bypass/mute function				
	Enabling the Global Setting				
	Canceling the assignment				
	Operating the machine image ·····				
	Checking pedal assignments				
	Checking foot switch assignments				
	Switching USB Audio Interface S2t/USB Audio Interface C5.1t				
	Other functions ·····				
	Targeting the instance				
	Receiving MIDI message				
	Adjusting pedal calibration ·····				
Standa	lone mode	112			
	Starting up the host application	112			
	Device Menu ·····				
	Selecting ASIO driver ·····	113			
	Configuring ASIO driver ·····				
	Connect/Disconnect	114			
	File Menu	114			
	Setting BPM ·····	114			
Quitting application ·····					
	Help Menu ·····	115			
	Displaying the current version	115			
Trouble	eshooting				
Append	<u></u>				

Introduction

Thank you for selecting the ZFX Stack Package/ZFX Control Package. This manual covers both the ZFX Stack Package and the ZFX Control Package. In order to take full advantage of the their versatile functions and to ensure trouble-free enjoyment, please read this manual carefully. Keep this manual in a safe place together with the warranty card.

Features of USB Audio Interface S2t / USB Audio Interface C5.1t

The USB Audio Interface S2t / USB Audio Interface C5.1t (simply called the "S2t", "C5.1t" in this manual) are the USB audio interface with following features.

Real time control with the expression pedal

The C5.1t has a built-in expression pedal unit as standard, and for the S2t, the external pedals (FP01/FP02) are available optionally. With these expression pedals, you can adjust the effect tone or volume in real time.

• Tube powered Accelerator

The analog input stage features an Accelerator that lets you freely mix the signals amplified by a vacuum tube circuit and a solid-state circuit. In this way, you can add characteristics tube compression and distortion to a clean sound.

Programmable function foot switches

The C5.1t has five built-in foot switches, and for the S2t, the external foot switch(FS01) is available optionally. With these switches, you can program the functions such as switching amp channels, setting delay time, switching patches, and various other tasks.

Support for a wide range of input sources

Input connectors are compatible with high-impedance sources and 48V phantom power. These allow the unit to handle any kind of source, from electric guitar/bass and other high-impedance instruments to dynamic/ condenser microphones, synthesizers and other line-level equipment.

Software copy protection

S2t/C5.1t works as a hardware key to prevent copies. Please make sure that S2t/C5.1t is connected to your computer before starting up ZFX Plug-in. ZFX Plug-in works only when S2t/C5.1t is connected properly.

Features of ZFX Plug-in

The ZFX Plug-in is a VST plug-in effect with the following features.

Ready-to-use patches

Effect module combinations and settings can be stored and recalled as "Patches". The ZFX Plug-in offers more than 300 ready-to-use patches, and you can store them as many as you want as far as your hard disk drive has enough space.

The stimulating Catalog

ZFX Plug-in offers you 78 effects, including amplifiers, effectors and microphones, through a catalog style console. Here, you can choose the instruments much easily and inspirationally while sound making.

Realistic amplifier/stomp box modeling

The analog clip of the tubes and the diodes are simulated digitally, therefore, the distortion characters of tube amplifiers and vintage effectors are precisely modeled. This includes historical and fascinating models and recent popular models. The cabinet simulator brings you the natural reverberation, through the various microphones of variable position.

Freely editable effect chain

The connections of effectors and amplifiers can be easily changed, by rewiring the shielded cables by mouse. You can freely position them, since there are no limits according to its category, such as drives, modulations, and reverbs, as in usual multiple effectors and plug-in effects.The number of amplifier/effector that can be used at the same time depends on your computer environment.

Built-in tuner supports special tuning requirements

In addition to the standard auto-chromatic tuner, various other tuning methods are possible.

Please take time to read this manual carefully, in order to get the most out of your Z Stack Package/Z Control Package and to ensure optimum performance and reliability.

Controls and Functions of ZFX Plug-in



L ④ Effector Area

(5) Bypassing Area -

1) Tool Area

The tool area contains four functions: Catalog (\rightarrow P024), Tuner (\rightarrow P079), Patch Management (\rightarrow P055) and Pedal / Switch Manager (\rightarrow P085).

Signal Control Area

This manages the total signal flow of the ZFX Plug-in. In the Signal Control Area, you can select the input sources and guitar pickups, adjust the master level and other general parameters.(\rightarrow P018)

③ Amplifying Area

The Amplifier section and the Cabinet Section belong to the Amplifying Area. At the Cabinet Section, you can adjust the microphone position. (\rightarrow P031)

④ Effect Area

Here you can set, order, and adjust the various effectors such as drive, dynamics, modulation, reverb, and other.(\rightarrow P038)

5 Bypassing Area

he Bypassing Area lets you set the bypass/mute condition of ZFX Plugin. With the Current/Original button, you can compare the current patch setting and its original patch setting which had been recently stored. (\rightarrow P077)

Quick Guide

Starting up

The application shortcut is located at [Start]-[Programs]-[ZOOM]-[ZFX Plug-in]-[ZFX Plug-in].



To start up the ZFX Plug-in by standalone, select "ZFX Plug-in" as above.





To start up from a DAW application as a plug-in, please refer the operation manual of your DAW application.

Selecting input source

At first, select the input source according to the input of S2t/C5.1t, which your instrument is connected.

When guitar/bass is connected to the Hi-Z input, this setting will be ignored. For details, refer "Selecting input source" (\rightarrow P009)



Selecting patches

1. Click the [PATCH] button above the Tool Area.



The corresponding LED lights on, and the Patch manager comes available.

GATALOG	TUNER	CONTROL	PATCH
BANK SE	FLECT		
000-01	Amo Damo		
001-02	Effects Dem		_
002 03	Book Artist		
003-04	lazz Blues Art	tiet	
004 05	Metal Artist	(BC	
005:06	1965 Brieht A	300	
006-07	IAZZ OLEAN	1	
MEN	N DELE	TE IMPORT	EVENE
DATON	FL COT	incont	EAPOR
PATCHS	ELECT		
000:196	5_Bright_Amp	008:1959_1	vintage
UU1: Jaz	zuelean	UU9; Tweed	Bass
002: MS.	Brunch	010; HW10	0
003: MB	Recti_Vintage	U11: DzBer	t_Olean
004: MB	Recti Modern	UI 2: DzBer	tUrunch
005: VX	UK30	013; DzBer	t_Drive
006; ELH	IV_Rhythm	01 4: Matchi	ing_30
007; EL\	/H_Lesd	015: Tange	rine_+
<h td="" u<=""><td></td><td></td><td>3</td></h>			3
			in the second
	IMPORT	EXPORT	STORE

2. Click a patch to load, from the PATCH SELECT list.

PATCH SELECT	
000:1965_Bright_Amp	008:1959_Vintage
001: Jazz_Olean	009: Tweed_Bass
002: MS_Crunch	01 0: HW_1 00
003: MB_Recti_Vintage	011: DzBert_Olean
004: MB_Recti_Modern	012: DzBert_Orunch
005: VX_UK30	013: DzBert_Drive
006: ELHV Rhythm	01 4: Matching_30
007: ELVH_Lead	015: Tangerine_+
<	>



To view all patches, drag the scroll bar horizontally.

The patch will be loaded.



Controlling Amplifiers

At the Amplifying Area, you can adjust the knob, switches, microphone position, and other parameters of the amplifier, which are currently selected.

1. Drag the knob of the amplifier vertically.



The effect parameter will be adjusted according to the knob position.



Each amplifier has different knobs and switches. Please refer the effect types and parameters for detail. (\rightarrow Appendix)

2. Drag the microphone horizontally.



The effect tone gets adjusted according to the position. For instance, the hard and solid sound to the soft sound.

3. Roll the mouse wheel over the Booth Section.



As the microphone gets nearer or farther, the room reverberation changes.

Magnifying and scrolling the Effect Area

1. Roll the mouse wheel over the Effect Area.



The magnification ratio will be changed.





To magnify, you can also click the [+/-] icon in Effect Area (→P043)

2. Zoom in the Effect Area, and hover the mouse pointer over it. See the pointer changes its shape to a palm icon.



When the palm icon is displayed, you can drag the floor to scroll it.



Controlling Effectors

At the Effect Area, you can adjust the knob, switches, and other controls.

1. Click a knob of the instrument displayed in the Effect Area, and drag it vertically.



The effect tone will be adjusted according to the knob position.



Each instrument has different knobs and switches. Please refer the effect types and parameters for detail. (\rightarrow Appendix)

2. Click a foot switch of the instrument.



The instrument will be powered off, and bypassed. To enable it again, click the foot switch once more.



Instruments can also be turned off by clicking its LED.

Selecting Instruments

1. Click the [CATALOG] button above the Tool Area.



The corresponding LED lights on, and the Catalog comes available.

2. Click the index labeled as "GUITAR", "BASS", "CABINET" and other, at the right side of the Catalog.



The thumbnails for the amplifiers, cabinets, effectors, and other will be shown.





E Refer P027 for the details of each category.

3. To insert an instrument, drag-and-drop the thumbnail to the appropriate area/section.



The instrument gets inserted.



The amplifiers can be dropped to the Amplifier Section. The cabinets and microphones can be dropped to the Booth Section, and other instruments to the Effect Area. **4.** To delete the instrument, double-click the right button over it.



The instrument gets deleted.





The amplifiers, cabinets, and microphones can be deleted the same way. At the Effect Area, the [TRASH CAN] icon is also available.

Storing patches

To store the patch setting, follow the instruction below.

1. Click the [PATCH] button above the Tool Area.



The corresponding LED lights on, and the Patch Manager comes available.

- BANK SELECT 00: 01_Amp_Demo 001:02_Effects_Demo 002:03_Rock_Artist 003:04_JazzBlues_Artist 004:05_Metal_Artist 005:06_1965_Bright_Amp 006: 07 JAZZ OLEAN NEW DELETE IMPORT EXPORT PATCH SELECT 000: 1965_Bright_Amp 008:1959_Vintage 009: Tweed_Bass Jazz_Olean 2: MS_Grunch 010: HW,100 03: MB_Recti_Vintage 011: DzBert_Clean 012: DzBert_Grunch 004: MB_Recti_Modern 013: DzBert Drive 005: VX_UK30 014: Matching_30 006: ELHV,Rhythm 007: ELVH_Lead 015: Tangerine_+ < 111 3 IMPORT EXPORT NEW DELETE STORE AS
- **2.** Click the [STORE] button to overwrite the current patch.

The current patch will be overwritten with the current setting.

0	000:01 Amp Demo				
0	001: 02 Effects Demo				
0	002: 03 Rock Artist				
Ō	003: 04 JazzBlues Artist				
Ō	04:05 Metal Artist				
O	05:06 1965 Brieht Ar	no			
- In	06:07 JAZZ OLEAN				
	NEW DELET	MPORT	EXPOR		
PA	TCH SELECT				
10	00:1965 Bright Amp	008:1959_V	intage		
0	D1 : Jazz_Olean	009: Tweed_Bass			
0	02: MS_Orunch	010: HW 100) -		
0	D2: MS_Orunch D3: MB_Recti_Vintage	010: HW_100 011: DzBert) Clean		
000	D2: MS_Crunch D3: MB_Recti_Vintage D4: MB_Recti_Modern	010: HW_100 011: DzBert 012: DzBert) Clean Crunch		
	D2: MS_Orunch D3: MB_Recti_Vintage D4: MB_Recti_Modern D5: VX_UK30	010: HW_100 011: DzBert 012: DzBert 013: DzBert) _Clean _Crunch _Drive		
	D2: MS_Orunch D3: MB_Recti_Vintage D4: MB_Recti_Modern D5: VX_UK30 D6: ELHV_Rhythm	01 0: HW_1 00 01 1: DzBert 01 2: DzBert 01 3: DzBert 01 4: Matchir) Clean Crunch Drive 15 30		
	D2: MS_Orunch D3: MB_Recti_Vintage D4: MB_Recti_Modern D5: VX_UK30 D6: ELHV_Rhythm D7: ELVH_Lead	01 0: HW1 00 01 1: DzBert 01 2: DzBert 01 3: DzBert 01 4: Matchin 01 5: Tangeri) Clean Crunch Drive ng 30 ine_+		
	D2: MS_Orunch D3: MB_Recti_Vintage D4: MB_Recti_Modern D5: VX_UK30 D6: ELHV_Rhythm D7: ELVH_Lead	01 0: HW;1 00 011: DzBert 012: DzBert 013: DzBert 014: Matchin 015: Tangeri) Olean Orunch Drive ns_30 ins_4		
	D2: MS_Orunch D3: MB_Recti_Vintage D4: MB_Recti_Modern D5: VX_UK30 D6: ELHV_Rhythm D7: ELVH_Lead	01 0: HW_1 00 01 1: DzBert 01 2: DzBert 01 3: DzBert 01 4: Matchin 01 5: Tanger	Clean Crunch Drive ns.30 ine.+		

3. To store the setting to the other patches, click the [STORE AS] button.

"Store as" dialog opens.

- **Storing Patches** \mathbf{X} Select the store target bank 000:01_Amp_Demo 01:02 Effects Demo 002: 03_Rock_Artist 003: 04_JazzBlues_Artist 004: 05_Metal_Artist 005: 06_1965_Bright_Amp 006: 07_1477_CLEAN Select the store target patch 008: Ring_Modulator 016: No Name 009: Muff_Step 017: No Name 010: Baby_Rats 018: No Name 011: Acoustic 012: Stereo_Delay 019: No Name 020: No Name 013: Stereo_Mod 014: Parallel_Mod 021: No Name 014: Parallel_Mod 022: No Name 015: 65Bright_and_Recti 023: No Name < > STORE N
- **4.** Select the target bank and patch and then click the [STORE] button.

The current setting gets stored to the patch, which you had selected.

Signal Control Area

The Signal Control Area manages the total input/output settings, such as volumes and input source selection. The details are as below.



Selecting input source

1. When the instrument is connected to CH1/L input, click the INPUT SOURCE [L] button.



2. When the instrument is connected to CH2/R input, click the INPUT SOURCE [R] button.



3. When the instrument is connected to both CH1/L and CH/R inputs as a stereo source, click the INPUT SOURCE [STEREO] button.





When guitar/bass is connected to the Hi-Z input, this setting will be ignored.

Selecting pickups

For electric guitar/bass, the pickup selection have to be set correctly. When a electric guitar is on use, the indication "SINGLE" should be lit for single coiled pickups, and "HUMBUCKER" for humbucker pickups. For electric bass, the "SINGLE" is for passive type, and "HUMBUCKER" is for active type. To change setting, click the button.

•		PICKUP SELECTOR	ODE: MS Cr	 Image: Image: Ima	PICKUP SELECTOR	OC2: MS C INPUT
	- HERRICH HERRICH	1	atolate		 4	alkeneske



For microphones and line input instruments, click the button above until it lights off.

Showing/Hiding frames

You can show/hide the frames with the [HORIZONTAL FRAME] button and the [VERTICAL FRAME] button.

1. Click the [HORIZONTAL FRAME] button at the Signal Control Area.



The Tool Area gets hid.



2. To display the all areas again, click the [HORIZONTAL FRAME] button once more.



The Tool Area will be shown.

3. Click the [VERTICAL FRAME] button at the Signal Control Area.



All areas excluding the Signal Control Area gets hid.



Adjusting patch level

Patch level is the output level for the patch setting. To adjust it, drag the [PATCH] knob vertically. OdB will be the unity gain (no increasing or decreasing). To store this setting, click the [STORE] button at the Patch Manager. The patch level will be stored with the current patch setting. (\rightarrow P058)



NDTE The setting you are currently editing gets lost when the new patch has been loaded. Store the settings as above if necessary. (→P058)

Adjusting master level

The master level cannot be stored severally since it controls the total output level of the ZFX Plug-in. To adjust it, drag the [MASTER] knob vertically. OdB will be the unity gain (no increasing or decreasing).





The master level will not be stored as the patch setting.

About the connection state

When the S2t/C5.1t is connected properly to your computer, the [ZFX Plug-in Logo mark] at the Signal Control Area lights on. This lights off if no connection is detected.





While using the ZFX Plug-in, please notice that the S2t/C5.1t is connected properly to your computer. With no connection, the copy-protection system runs and bypasses all the signals despite however the setting is.

Basic Operation

Below is the basic operation for the ZFX Plug-in. At first, choose an instrument from the Catalog, and drag-and-drop it to corresponding area or section. The Amplifier Section is for amplifiers, the Booth Section is for cabinets and microphones, and The Effect Area is for other instruments.



At the Amplifier Section, you can control the knobs and switches to adjust the effect. At the Booth Section, microphone distance and position are adjustable for the better reverberation. You can also control the knobs and switches at the Effect Area. Here, the instruments can be wired freely with the shielded cables.

Catalog

The effect types can be selected through the Catalog. The Catalog contains the various effect types including the amplifiers and effectors. There are two types of pages: the thumbnail page, and the detail page.

Starting up the Catalog

CATALCO TUNER CONTROL PATCH The corresponding LED lights on, and Catalog comes available. Below is its detail page. PATCH CATALOG TUNER CONTROL Guitar Amplifier Category 1965 Bright Amp Effect type name E ③ Effect type image (4) Index MIC The "Bright 65" sound is a classic with blues rock, and country players who want a moderately powered amp they can crank. The thick, choppy tones heard from Nashville to Abbey Road, were recorded **(5)** Detail description using the "Bright 65" amp. Loaded with 2 6V6 output tubes, 4 12AX7 preamp tubes and 2 12AT7s, this classic amp sets the standard for studio and stage! 6 [NEXT][PREVIOUS] button ⑦ Page index -3-1 Category This indicates the category of the instrument, which you are now viewing. 2 Effect type name This indicates the name of the instrument. 3 Effect type image This is the image graphic of the instrument. ④ Index This lets you jump to the top page of each category. **5** Detail description This describes the character of the instrument. 6 [NEXT][PREVIOUS] Button These let you turn the pages. ⑦ Page index This indicates the current page index.

Click the [CATALOG] button above the Tool Area.





When the ZFX Plug-in is booted, the thumbnail page for the guitar amplifiers is shown as default.

Catalog - Basic operation

Below is the basic operation for both thumbnail and detail pages.

Turning pages

Pages can be turned with the [NEXT][PREVIOUS] buttons.

1. Click the [CATALOG] button above the Tool Area.



The corresponding LED lights on, and the Catalog comes available.

2. The [NEXT] button and the [PREVIOUS] button appear when the mouse is hovering over the Catalog. To turn to the next page, click the [NEXT] button.



The page turns over.



TE The [PREVIOUS] button will not appear at the first page.

3. To turn to the previous page, click the [PREVIOUS] button.



The page turns back. With these buttons, the pages turn one by each.



Besides using the [NEXT][PREVIOUS] button, you can also drag the blank part of the page to turn over.

Turning a number of pages

By rolling the mouse wheel, you can turn a number of pages at once.

1. Click the [CATALOG] button above the Tool Area.



The corresponding LED lights on, and the Catalog comes available.

2. Hover the mouse over the Catalog, and roll the wheel upward.





The pages turn over at once.

3. Hover the mouse over Catalog and roll the wheel backward.



The pages turn backwards this time.

Jumping pages by index

o jump between the categories, follow the instruction below. The distortion category is for example.

1. Click the [CATALOG] button above the Tool Area.



The corresponding LED lights on, and the Catalog comes available.

2. Click the "DIST" index at the right side of Catalog.



The thumbnail page of the distortion effectors gets shown.



- **3.** Do as same for other categories. Below are the details.
 - ① GUITAR index
 - 2 BASS index
 - 3 CABINET index
 - ④ MIC index
 - **5 CMP/WAH index**
 - 6 DIST index
 - ⑦ MOD index
 - 8 DLY/REV index
 - 9 TOOLS index
- Guitar amplifiers Bass amplifiers Guitar/Bass cabinets Microphones Dynamics/WAH effectors Distortion effectors Modulation effectors Delay/Reverb effectors Other instruments, typically the splitter and the

mixer.





One category might include more than one thumbnail pages. With the indexes, their first pages become current. Click the [NEXT] button for the pages afterwards. (→P025)

Jumping to detail page

With the thumbnail page, you can jump directly to the detail pages, or insert the instruments into the Amplifier Area and the Effect Area. The details are as below. The "DIST" category is for example.

1. Click the [CATALOG] button above the Tool Area.



The corresponding LED lights on, and the Catalog comes available.

2. Click the "DIST" index at right side of the Catalog.





The thumbnail page of the distortion effectors becomes current.

3. Double-click over the image of "FUZZ SMILE".



The detail page of the "FUZZ SMILE" becomes current.





You can directly drag-and-drop the image into the Amplifier Area or the Effect Area, as in the detail pages explained below.

Selecting Instruments from detail page

To insert the instrument, you have to set them into the Amplifier Area or the Effect Area. Follow the example below.

1. Click the [CATALOG] button above the Tool Area.



The corresponding LED lights on, and the Catalog comes available.

2. Click the [NEXT][PREVIOUS] buttons to seek pages. The buttons appear when the mouse is hovering over the Catalog. (→P025)



The detail pages are after thumbnail pages. Here for example, the "FUZZ SMILE" in the "DIST" category.

3. Drag-and-drop the "FUZZ SMILE" image into the Effect Area.



The "FUZZ SMILE" gets inserted. The shielded cables will be automatically connected.



Amplifying Area

The amplifier, cabinet, and microphone can be operated through the Amplifying Area. The amplifier belongs to the Amplifier Section, and the cabinet and microphone belong to the Booth Section. You can set and adjust them as below.

Controls and Functions



This section contains cabinet and microphone. This indicates the final signal level after all effects and master level.

Amplifier Section - Basic operation

③ VU meter

When the amplifier is set from the Catalog, it can be adjusted and deleted through the Amplifier Section.

Setting Amplifiers

To set the amplifier, follow the instruction below. "1965 Bright Amp" is for example.

1. Click the [CATALOG] button above the Tool Area.



The corresponding LED lights on, and the Catalog comes available.



For the details of Catalog, refer "Catalog - Basic operation". (\rightarrow P025) For the details of Catalog thumbnails, refer "Jumping to detail page". (\rightarrow P028)

2. Click the "GUITAR" index at right side of the Catalog.



The thumbnail page for guitar amplifiers becomes current.

3. Drag-and-drop the "1965 Bright Amp" image into the Amplifier Section.



The amplifier gets set.





You can also set the amplifiers from the detail pages of the Catalog. You may drag-and-drop the image into the Amplifier Section. (\rightarrow P029)

Adjusting Amplifiers

To adjust the effect tone of the amplifier, control the knobs and switches.



()Switch This lets you switch the channels or other belonging parameters.



(2)Knob With dragging it vertically, you can adjust the belonging parameters.





Some instruments may contain other types of controls, but all controls can be operated through clicking and dragging.



The power switch of the amplifier cannot be edited.

Deleting Amplifiers

To delete the amplifier, double-click the right button over it.



The amplifier gets deleted.





You can also delete the amplifier, cabinet, and microphone at once by deleting the belonging amplifier module. (\rightarrow P041)

Booth Section - Basic operation

When the cabinet and microphone are set from the Catalog, it can be adjusted and deleted through the Booth Section.

Setting Cabinets and Microphones

To set the cabinet into the Booth Section, follow the instruction below. "Bright Combo 2x12" is for example.

1. Click the [CATALOG] button above the Tool Area.



The corresponding LED lights on, and the Catalog comes available.



For the details of Catalog, refer "Catalog - Basic operation".(\rightarrow P025) For the details of Catalog thumbnails, refer "Jumping to detail page". (\rightarrow P028). **2.** Click the "CABINET" index, at right side of the Catalog.



The thumbnail page of the guitar/bass cabinets becomes current.

3. Drag-and-drop the image of "Bright Combo 2x12" into the Booth Section.



The cabinet and a recommended microphone get set to the Booth Section.

Deleting Cabinets and Microphones

To delete cabinet and microphone, double-click the right button over it.



The cabinet and the microphone get deleted.


Replacing Microphones

To replace the microphone in Booth Section, follow the instruction below. "Dynamic 421" is for example.

1. Click the [CATALOG] button above the Tool Area.



The corresponding LED lights on, and the Catalog comes available.



For the details of Catalog, refer "Catalog - Basic operation".(\rightarrow P025) For the details of Catalog thumbnails, refer "Jumping to detail page". (\rightarrow P028)

2. Click the "MIC" index at right side of the Catalog.

-	MS Crunch	MB Dual Head	ET MI
		ELVH	COM

The thumbnail page of the microphones becomes current.

3. Drag-and-drop the image of "Dynamic421" into the Booth Section.



The microphone gets set into the Booth Section.

Adjusting the microphone distance

Hover the mouse over the Booth Section, and roll its wheel. The distance between microphone and cabinet can be adjusted.





The [+][-] button appears then the mouse is hovering over the Booth Section. The distance can also be adjusted through these buttons.



Adjusting the microphone position

By dragging the microphones horizontally, you can adjust its position against the speaker.



Effect Area

At the Effect Area, you can set, adjust, and position the instruments, and wire the shielded cables freely.

Controls and Functions



Signal flow of Effect Area

The signal will be processed from left to right as below.





The shielded cables are available for both the stereo and monaural signals.

Selecting/Adjusting instruments

The instruments which had been set from the Catalog can be adjusted and deleted.

Setting instruments

To set the instrument into the Effect Section, follow the instruction below. "FUZZ SMILE" is for example.

1. Click the [CATALOG] button above the Tool Area.



The corresponding LED lights on, and the Catalog comes available.



For the details of Catalog, refer "Catalog - Basic operation". (\rightarrow P025) For the details of Catalog thumbnails, refer "Jumping to detail page". (\rightarrow P028)

2. Click the "DIST" index at right side of the Catalog.



The thumbnail page of distortion effectors becomes current.

3. Drag-and-drop the image of "FUZZ SMILE" into the Effect Area.



"FUZZ SMILE" gets inserted into the Effect Area, at the position where you have dropped.





In order to set the instruments, you can also drag-and-drop the image at the detail page of the Catalog.



The shielded cables will be connected automatically.

Positioning instruments

The instrument can be positioned freely with the drag-and-drop operation.

1. Start dragging the target instrument. Make sure that there are no knobs or switches at the start position.



The translucent image of the instrument appears as the operation starts.

2. Drop the instrument to the destination.



The instrument moves to the destination.



The shielded cables gets rewired automatically after this operation.

Adjusting instruments

To adjust the instrument, control its knobs and switches.



③ [INPUT] jack ·

- ④ Foot switch
 - 5 Tool tip

1 Knob

With dragging it vertically, you can adjust the belonging parameters.

- 2 [OUTPUT] jack The output signal will be sent out from here.
- 3 [INPUT] jack The output signal will be sent into here.
- 4 Foot switch
- (5) Tool tip

This lets you to enable/disable the instrument. The tool tip appears while the parameters are

edited. This indicates its current value.



To adjust the knobs precisely, press the shift key while dragging. Then the knobs will turn slowly.



Some instruments may contain other types of controls, but all controls can be operated through clicking and dragging.

Deleting instruments

To delete the instruments, follow the instruction below.

1. Start dragging the target instrument. Make sure that there are no knobs or switches at the start position.



The instrument starts dragging.

2. Drop the instrument into the trash can icon at the right-bottom corner.



The instrument gets deleted.





You can also double-click the right button over the instrument to delete it.



When the instrument is deleted, its previous and next instruments will be wired automatically.

Magnifying and Scrolling

At the Effect Area, you can magnify and scroll the view.

Magnifying the Effect Area

To magnify the Effect Area, follow the instruction below.

1. Hover the mouse pointer over the Effect Area.



2. Roll the mouse wheel upward.



The view gets magnified. To reduce its ratio, roll the wheel downward.





The [+][-] button appear when the mouse is hovering over the Effect Area. You can also click them to adjust the magnification ratio.





When the view is widely magnified, the instruments cannot be dragged. Reduce the magnification ratio for the dragging operations.

Zooming up the instrument

Double-click the target instrument. Make sure that there are no knobs or switches below the mouse pointer.



The instrument zooms up.



Zoom to next instrument

The [LEFT][RIGHT] scroll buttons appear at the left-bottom corner while the mouse is hovering over the Effect Area. You can zoom up the instruments one after another by clicking these buttons. By clicking [LEFT] button, the instrument at the left side zooms up.



Click the [RIGHT] button to zoom up the instrument at the right side.





When no certain instrument is zoomed, the one next to the one which had been previously edited zooms up.

Scrolling the Effect Area

When the Effect Area is magnified, the mouse pointer changes to the "Palm Cursor" while hovering.



With the palm cursor, you can drag the floor to scroll it.



Wiring shields

You can connect the instruments each other freely with the shielded cables.

Connecting a shield

To connect the shielded cable, follow the instruction below.

1. Set an instrument into the Effect Area, and hover the mouse pointer over its [OUTPUT] jack.



The pointer changes to "Jack cursor". With this, you can start dragging the shield.



To set the instrument, refer "Setting instruments". (\rightarrow P039)

2. Start dragging from the [OUTPUT] jack.



Now you can connect the shield to the [INPUT] jack of other instruments.



Connecting from output to output, or input to input, are not allowed. In these cases, the "unavailable" cursor appears as below.





To cancel while dragging, drop it on the floor, or wherever beside jacks.

3. Drop it to the [INPUT] jack of other instrument.



The shield will be connected. You can also start dragging from [INPUT], and then drop it to the [OUTPUT].





Drag-and-drop from [OUTPUT] to the leftward [INPUT] is not allowed, since this may cause the feedback loop. From [INPUT] to the rightward [OUTPUT] is not allowed as well.

Changing the shield connection

To rewire the shields which are already connected, follow the instruction below.

1. Start dragging the [INPUT][OUTPUT] jack, which the shield is connected.



While dragging, the target shield turns green. Here you can rewire the shield.

2. Drop it to the [INPUT][OUTPUT] jack where you with to connect.



The shielded cable gets rewired. When other instruments exist between the connection, the cable detours around them.





You can detour the shielded cables up side down if necessary. From upside to downside, drag-and-drop the jack downward.



From downside to upside, start dragging the jack and drop it upward.



You can also switch it up side down by double-clicking the jack.

Connecting directly to input / output

While dragging the jacks, the [INPUT][OUTPUT] bar appears at both sides of the Effect Area. You can drag the [INPUT] jack to the [INPUT] bar, in order to connect it directly to the input of ZFX Plug-in.



By dragging the [OUTPUT] jack to the [OUTPUT] bar, the output of the instrument will be connected directly to the output of the Effect Area.





[INPUT][OUTPUT] bar also appears when the mouse is hovering over the side of Effect Area. With this, you can start dragging from the [INPUT][OUTPUT] bar as from [INPUT][OUTPUT] jacks.

Deleting shields

To delete the shielded cable, follow the instruction below.

1. Start dragging from [INPUT][OUTPUT] jack, which the shielded cable is connected.



The shielded cable starts getting dragged, and turns green.

2. Make sure the green shield is the one you want to delete. Then, drop it into the trash can at the right-bottom corner.



The shield gets deleted.





To delete the shielded cables, you can also double-click right button over the jacks which they are connected.



The vertical shielded cables of the amplifier modules cannot be deleted.

Splitters and Mixers

At the Effect Area, you can split the signal into two by using "Splitter", and two into one by "Mixer". For these advanced operations, follow the instructions below.

Operating Splitters

Click the "TOOLS" index at right side of the Catalog.

1. The thumbnail page for "TOOLS" becomes current.



The thumbnail page for "TOOLS" will be shown.



- CATALOG TINER CONTROL PACH CATALOG TINER CONTROL PACH TIMEUCATER TOTAL CATALOG TINER CONTROL PACH TOTAL CONTROL PACH TOTAL CONTROL PACH TOTAL CONTROL PACH TOTAL TOTAL CONTROL PACH TOTAL TOTAL TOTAL CONTROL PACH TOTAL TO
- 2. Drag-and-drop the image of "Splitter" into the Effect Area.

The splitter gets inserted. As shown above, the splitter has two [OUTPUT] jacks. Both jacks output the signal, which had run into the splitter.



Both [OUTPUT] jacks can be wired the same way.





Refer "Jumping to detail page" for the details of thumbnail pages. (\rightarrow P028)

Operating Mixers

Below is the instruction to operate the mixers.

1. Click the "TOOLS" index at right side of the Catalog.



The thumbnail page for "TOOLS" becomes current.



2. Drag-and-drop the image of "Mixer" into the Effect Area.

The mixer gets inserted. As shown above, the mixer has two [INPUT] jacks, as [INPUT A] and [INPUT B]. These let you mix the two signals into one.



Both [INPUT] jacks can be wired the same way.

3. Connect the shielded cables to [INPUT A] and [INPUT B] jack.



4. Drag the [LEVEL A] knob vertically.



The channel A volume gets adjusted. Channel B volume can be adjusted with [LEVEL B] knob.

5. Drag the [PAN A] knob vertically.



The panning of the channel A gets adjusted. Turn clockwise to R side, and counterclockwise to L side. For the channel B panning, drag the [PAN B] knob.

Amplifier Module

The "Amplifier Module" sends the signal to the Amplifying Area. The "Amplifier Module" can be inserted multiply. When multiply inserted, each one of them corresponds to individual Amplifying Areas.



Operating Multiple Amplifier Modules

The Amplifying Area which is currently viewed, corresponds to the amplifier module indicated with red allow. To switch the view, click the other amplifier module.



Deleting Amplifier Modules

The amplifier modules can be deleted as other instruments. The last amplifier module cannot be deleted since there must be at least one, though, by dropping it into the trash can, you can delete the containing amplifier, cabinet, and microphone.





Patch Management

The patch setting including effect types and parameters, can be loaded/saved as patches. Patches are organized as bank, owning 128 patches. Bank corresponds to one file in your computer, and can be created as many as you want as far as your hard disk drive has enough space.

Starting up the Patch Manager

PATCH CATALOG CONTROL TUNER The corresponding LED lights on, and the Patch Manager comes available. 2 Bank names ① [BANK SELECT] list BANK SELECT 00:01 Amp_Demo 01: 02_Effects_Den 102: 03_Rock_Artist 03:04_JazzBlues_Artist 004: 05_Metal_Artist DE 1065 ④ [BANK DELETE] button -⑤ [BANK IMPORT] button Y 006 07 JA77 OLE IMPORT EXPORT DELETE 3 [BANK NEW] button -NEW - 6 [BANK EXPORT] button PATCH SELECT 8 Patch names -008:1959_Vintage ⑦ [PATCH SELECT] list 1965 Bright Amp 09: Tweed_Bass Orunch 01 0: HW_1 00 Recti_Vintage 011 DzBert Clear Recti_Modern 012: DzBert_Oruno 013 DzBert D 014: Matchine 30 IV Rhy VHL ead 015: Tangerine 9 [PATCH IMPORT] button -IPATCH EXPORT] button IMPORT EXPORT STORE 1 [PATCH NEW] button - 13 [STORE] button NEW DELETE STORE AS 12 [PATCH DELETE] button () [STORE AS] button **① [BANK SELECT] list** The banks will be listed here. 2 Bank names The name and the index of banks are shown here. 3 [BANK NEW] button This lets you create a new bank. **④** [BANK DELETE] button

To start up the Patch Manager, follow the instruction below.

Click the [PATCH] button above the Tool Area.

This lets you delete the current bank which is currently selected. **(5) [BANK IMPORT] button** The external bank files can be imported with

	this button.
⑥ [BANK EXPORT] button	The banks can be exported to an external file
	with this button.
⑦ [PATCH SELECT] list	The patches will be listed here. patches.
8 Patch names	The name and the index of the patches are
	shown here.
9 [PATCH IMPORT] button	The external patch files can be imported with
	this button.
(I) [PATCH EXPORT] button	The patches can be exported to an external
	file with this button.
1 [PATCH NEW] button	This clears the current patch setting.
PATCH DELETE] button	This lets you delete the patch which is
	currently selected.
ISTORE] button	This lets you store the current setting to the
	current patch.
ISTORE AS button	This lets you store the current setting to the
	other patches.

Operating patches

With the Patch Manager, you can select, store, create, and delete the patches.

Selecting patches

To load these existing patches including presets, follow the instruction below.

1. Click the [PATCH] button above the Tool Area.



000, 01 Aver Drain	
000: 01_Amp_beno	
UUT: UZ_Effects_Demo	
002:03_Rock_Artist	
003:04_JazzBlues_Artis	st
004 05_Metal_Artist	
005:06_1965_Bright_An	rp
WEW DELETE	IMPORT EXPOR
PATCH SELECT	
	A REAL PROPERTY OF A REAL PROPER
000:1965_Bright_Amp	008:1959_Vintage
000:1965_Bright_Amp 001: Jazz_Clean	008:1959_Vintage 009:Tweed_Bass
000:1965_Bright_Amp 001:Jazz_Clean 002:MS_Crunch	008:1959_Vintage 009:Tweed_Bass 010:HW100
000: 1965_Bright_Amp 001 : Jazz_Olean 002: MS_Crunch 003: MB_Recti_Vintage	008:1959_Vintage 009:Tweed_Bass 010:HW_100 011:DzBert_Clean
000: 1965_Bright_Amp 001 : Jazz_Olean 002: MS_Orunch 003: MB_Recti_Vintage 004: MB_Recti_Modern	008:1959_Vintage 009:Tweed_Bass 010:HW100 011:DzBert_Clean 012:DzBert_Crunch
000: 1965_Bright_Amp 001 : Jazz_Olean 002: MS_Orunch 003: MB_Recti_Vintase 004: MB_Recti_Modern 005: VX_UK30	008:1959_Vintage 009:Tweed_Bass 010:HW100 011:DzBert_Clean 012:DzBert_Orunch 013:DzBert_Drive
000: 1965_Bright_Amp 001: Jazz_Clean 002: MS_Orunch 003: MB_Recti_Vintage 004: MB_Recti_Modern 005: VX_UK30 006: ELHV_Rhythm	008:1959_Vintage 009:Tweed_Bass 010:HW100 011:DzBert_Clean 012:DzBert_Crunch 013:DzBert_Drive 014:Matching_30
000:1965_Bright_Amp 001: Jazz_Clean 002: MS_Crunch 003: MB_Recti_Vintage 004: MB_Recti_Modern 005: VX_UK30 006: ELHV_Rhythm 007: ELVH_Lead	008:1959_Vintage 009:Tweed_Bass 010:HW_100 011:DzBert_Clean 012:DzBert_Crunch 013:DzBert_Drive 014:Matching_30 015:Tangerine_+
000: 1965_Bright_Amp 001: Jazz_Olean 002: MS_Orunch 003: MB_Recti_Vintage 004: MB_Recti_Modern 005: VX_UK30 006: ELHV_Rhythm 007: ELVH_Lead	008: 1959_Vintage 009: Tweed_Bass 010: HW_100 011: DzBert_Clean 012: DzBert_Orunch 013: DzBert_Drive 014: Matching_30 015: Tangerine_+
000: 1965_Bright_Amp 001: Jazz_Clean 002: MS_Orunch 003: MB_Recti_Vintage 004: MB_Recti_Vintage 004: MB_Recti_Modern 005: VX_UK30 006: ELHV_Rhythm 007: ELVH_Lead	008:1959_Vintage 009: Tweed_Bass 010: HW_100 011: DzBert_Clean 012: DzBert_Orunch 013: DzBert_Orive 014: Matching_30 015: Tangerine_+



When the ZFX Plug-in is booted, the patch you had recently selected will be selected automatically.

2. Click a bank name in the [BANK SELECT] list.

000	: 01_Amp	Demo		-
001	02_Effe	cts_Demo		
002	03_Rock	Artist		
003	04_Jazz	Blues_Artist		
004	: 05_Met	al Artist		
005 006	06_1965 07_JAZ	5_Bright_Am Z CLEAN	P	~
PAT	NEW CH SELE	DELETE	IMPORT	EXPOR
000	: All_Duan	eman	008: LA Luke	
001	BackNB	lack Angus	009: MayQuee	n

The [PATCH SELECT] list refreshes according to the bank you have selected. The current selection will be displayed inverted.

3. Click a patch name in the [PATCH SELECT] list.



The patch setting gets loaded.





When the patch is loaded, your current patch setting gets lost, so that if necessary, store the setting before loading a new one. (\rightarrow P058)

Storing patches

The effect setting can be stored as patches, which are owned by banks.

1. Click the [PATCH] button above the Tool Area.



The corresponding LED lights on, and the Patch Manager comes available. The inverted bank and patch are the currents.

000: 01_Amp_Demo	4
001: 02_Effects_Demo	
002: 03_Rock_Artist	
003:04_JazzBlues_Art	ist
004: 05_Metal_Artist	
005:06_1965_Bright_A	mp
006-07-JAZZ CLEAN	× ×
NEW DELET	E IMPORT EXPORT
PATCH SELECT	
000; 1965 Bright Amp	008:1959_Vintage
000; 1 965_Bright_Amp 001: Jazz_Clean	008:1959_Vintage 009:Tweed_Bass
000; 1965 Bright, Amp 001: Jazz <u>Clean</u> 002: MS_Crunch	008:1959_Vintage 009:Tweed_Bass 010:HW_100
000:1965_Bright_Amp 001:Jazz_Clean 002:MS_Crunch 003:MB_Recti_Vintage	008: 1959_Vintage 009: Tweed_Bass 010: HW:100 011: DzBert_Clean
000: 1965_Bright_Amp 001: Jazz_Clean 002: MS_Crunch 003: MB_Recti_Vintage 004: MB_Recti_Modern	008: 1959_Vintage 009: Tweed_Bass 010: HW,100 011: DzBert_Clean 012: DzBert_Crunch
000: 1965_Bright_Amp 001: Jazz_Clean 002: MS_Crunch 003: MB_Recti_Vintage 004: MB_Recti_Modern 005: VX_UK30	008: 1959_Vintage 009: Tweed_Bass 010: HW_1 00 011: DzBert_Clean 012: DzBert_Crunch 013: DzBert_Drive
000: 1965 Bright, Amp 001: Jazz, Clean. 002: MS, Crunch 003: MB, Recti, Vintage 004: MB, Recti, Modern 005: VX, UK30 006: ELHV, Rhythm	008: 1959_Vintage 009: Tweed_Bass 010: HWJ 00 011: DzBert_Glean 012: DzBert_Grunch 013: DzBert_Drive 014: Matching_30
000: 1965 Bright, Amp 001: Jazz, Clean. 002: MS_Crunch 003: MB_Recti, Vinitage 004: MB_Recti, Modern 005: VX_UK30 006: ELHV_Rhythm 007: ELVH_Lead	008: 1959_Vintage 009: Tweed_Bass 010: HWJ 00 011: DzBert_Clean 012: DzBert_Orunch 013: DzBert_Orive 014: Matching_30 015: Tangerine_+
000: 1955_Bright,Amp 001: Jazz_Clean. 002: MS_Crunch 003: MB_Recti_Vintage 004: MB_Recti_Modern 005: VX_UK30 006: ELHV_Rhythm 007: ELVH_Lead	008: 1959_Vintage 009: Tweed_Bass 010: HW_100 011: DzBert_Clean 012: DzBert_Crunch 013: DzBert_Drive 014: Matching_30 015: Tangerine_+
000: 1965 Bright Amp 001: Jazz_Clean. 002: MS_Orunch 003: MB_Recti_Vinitage 004: MB_Recti_Modern 005: VX_UK30 006: ELHV_Rhythm 007: ELVH_Lead	008: 1959_Vintage 009: Tweed_Bass 010: HWj100 011: DzBert,Clean 012: DzBert,Crunch 013: DzBert,Orive 014: Matching_30 015: Tangerine_+

2. Click the [STORE] button at bottom of the Patch Manager.

000; 1	965 Bright Amp	008:1959	Vintage
001:0	azz_Clean	009; Twee	d_Bass
002: N	IS_Crunch	01 0; HW_1 0	00
003: N	B_Recti_Vintage	011: DzBer	t_Clean
004; N	B_Recti_Modern	012; DzBer	t_Crunch
005; \	X,UK30	013; DzBei	rt_Drive
006; E	LHV_Rhythm	01 4: Match	ing_30
007: E	LVHLead	015: Tange	rine_+
< 1			>
	IMPORT	EXPORT	STORE
	NEW	DELETE	STORE AS

The setting is now stored to the current patch.



Make sure that you have stored the patch before loading a new one, since it would be lost.

Storing to certain destination

To store the setting to the other patch, follow the instruction below.

1. Click the [PATCH] button above the Tool Area.



The corresponding LED lights on, and the Patch Manager comes available. The inverted bank and patch are the currents.

2. Click the [STORE AS] button at the bottom of the Patch Manager.





ng Patches			
Select the store target t	ank		
000: 01 Amp Demo	~		
001: 02_Effects_Demo			
002: 03_Rock_Artist			
003:04_JazzBlues_Artis	ti i	 (1)	TARGET BANK SELECT
004: 05_Metal_Artist			list
005: 06_1965_Bright_Am	p l		
006-07 1477 CLEAN	×		
000: 1965_Bright_Amp 001: Jazz_Clean	008: 1959_Vintage 009: Tweed_Bass	-	
001: Jazz_Clean	009: Tweed_Bass		
002: MS_Crunch	010: HW_100		
003: MB_Recti_Vintage	011: DzBert_Clean		
004: MB_Recti_Modern	012: DzBert_Grunch	<u> </u>	
005: VX_UK30	013: DzBert_Drive		list
006: ELHV_Rhythm	014: Matching_30		
007: ELVH_Lead	015: Tangerine_+		
<	>		
	STORE	(3)	[STORF] button
			[0.0.2] 20

[TARGET BANK SELECT] list
[TARGET PATCH SELECT] list
Select a target bank from here. The current will be shown inverted.
Select a target patch from here. The current will be shown inverted.
[STORE] button

3. Click a target bank from the [TARGET BANK SELECT] list.



The new selection inverts, and the corresponding patches will be listed below in [TARGET PATCH SELECT] list.

000:01_Amp_Demo		~
001: 02_Effects_Dem	10	S.
002: 03_Rock_Artist	1	1
003:04_JazzBlues_Ar	tist	
004: 05_Metal_Artist		
005:06_1965_Bright_	Amp	
006: 07 JA77 CLEA	M	2
elect the store targe	et palch	
ielect the store targe 000: AC_Blues	et petch 008: Ring_Modulator	
lelect the store targe 000: AC_Blues 001: Reso_Phase	et patch 008: Ring Modulator 009: Muff_Step	

4. Click a target patch from the [TARGET PATCH SELECT] list.

008: Ring_Modulator	016: No Name	
009: Muff_Step	017: No Name 🔨	
010: Baby_Rats	018: No Name	
011: Acoustic	019: No Name	
012: Stereo_Delay	020: No Name	
013: Stereo_Mod	021: No Name	
014: Parallel_Mod	022: No Name	
015:65Bright_and_Rect	i 023: No Name	
<		0

The new selection inverts.

008: Ring_Modulator	016: No Name	
009: Muff_Step	017: No Name	
010: Baby_Rats	018: No Name	
011: Acoustic	019: No Name	
012: Stereo_Delay	020: No Name	
013: Stereo_Mod	021: No Name	
014: Parallel_Mod	022: No Name	
015:65Bright_and_Recti	023: No Name	
< ₩		12
	STORE	

5. Click the [STORE] button at the bottom.

008: Ring_Modulator	016:No Name
009: Muff_Step	017: No Name
010: Baby_Rats	018: No Name
011: Acoustic	019: No Name
012: Stereo_Delay	020: No Name
013: Stereo_Mod	021: No Name
014: Parallel_Mod	022: No Name
015:65Bright_and_Rect	023: No Name
K	1

The setting is now stored to the patch which you have targeted.

Ordering patches

To change the patch order, follow the instruction below.

1. Click the [PATCH] button above the Tool Area.



- BANK SELECT 000: 01_Amp_Demo 001: 02_Effects_Demo 002:03_Rock_Artist 003:04_JazzBlues_Artist 004: 05_Métal_Artist 005:06_1965_Brieht_Amp 006: 07 JAZZ CLEAN NEW DELETE IMPORT EXPORT PATCH SELECT 008:1959_Vintage 000; 1965 Bright Amp 009: Tweed_Bass 001 : Jazz Clean 01 0; HW_1 00 002: MS_Grunch 010; HW; 00 011; DzBert,Clean 012; DzBert,Crunch 013; DzBert,Drive 014; Matching,30 003: MB_Recti_Vintage 004: MB Recti Modern 005: VX_UK30 006: ELHV_Rhythm 007: ELVH_Lead 015: Tangerine_+ 2 < IMPORT EXPORT STORE NEW DELETE STORE AS
- 2. Start dragging the patch you wish to move, in the [PATCH SELECT] list.

The patch starts getting dragged.

3. Drop it over the destination.



The patch will be inserted to the destination.

000:1	965_Bright_Amp	008:1959	Vintage
001: MS_Orunch		009: Tweed_Bass	
002:1	MB_Recti_Vinitage	010: HW 10	0
003:1	MB_Recti_Modern	011: DzBer	rt_Clean
004:	VX_UK30	012: DzBer	t_Crunch
005: •	Jazz_Olean	013) DzBer	rt_Drive
006: ELHV Rhythm		01 4: Matching_30	
007:1	ELVH_Lead	015: Tange	rine_+
<		_	0
	IMPORT	EXPORT	STORE
	NEW	DELETE	STORE AS

Renaming patches

To rename the patches, follow the instruction below.

1. Click the [PATCH] button above the Tool Area.



The corresponding LED lights on, and the Patch Manager comes available.

000:1965_Bright_Amp 008:1959_Vintage
azz_Clean 009: Tweed Bass
002: MS_Crutich 01.0: HW_1.00
003: MB_Recti_Vintage 011: DzBert_Clean
004: MB_Recti_Modern 012: DzBert_Crunch
013: DzBert_Drive
006: ELHV_Rhythm 014: Matching_30
007: ELVH_Lead 01 5: Tangerine_+
IMPORT EXPORT STORE
NEW DELETE STORE AS

2. Double-click the patch you wish to rename in the [PATCH SELECT] list.

The patch name becomes editable.



The characters you can use for the patch names are as below. Numbers: 0 - 9 Alphabets: A – Z, a - z Symbols: (space)!"#%&'()+,-.;=@[]^_`{}~ **3.** Input the patch name, and press ENTER.

000:1965_Bright_Amp	008:1959_Vintage	
001: JC-Clean	009: Tweed_Bass	
002: MS_Crunch	010: HW 100	
003: MB_Recti_Vintage	011: DzBert_Olean	
004: MB_Recti_Modern	012: DzBert_Orunch	
005: VX_UK30	013 DzBert Drive	
006: ELHV Rhythm	01 4: Matching_30 01 5: Tangerine_+	
007: EL VH_Lead		
IMPORT	EXPORT STORE	
NEW	DELETE STORE	

The patch name gets renamed.



Besides pressing enter, you can select another patch to validate the name.

Deleting patches

To delete the patches, follow the instruction below.

1. Click the [PATCH] button above the Tool Area.



The corresponding LED lights on, and the Patch Manager will be shown.

2. Select the patch you wish to delete from the [PATCH SELECT] list.



The new selection inverts as above.

3. Click the [PATCH DELETE] button at bottom of the Patch Manager.



The patch gets deleted. Notice that the name have turned to "NO NAME".





After deleting patches, the current setting still remains on display. You may store them if the patch have been deleted accidentally. (\rightarrow P058)

Clearing the current setting

To clear the current setting, follow the instruction below.

1. Click the [PATCH] button above the Tool Area.



The corresponding LED lights on, and the Patch Manager comes available.

2. Click the [PATCH NEW] button at the bottom of the Patch Manager.

DOD. LOSS DUILLA Ame	000.105036-4		
UUU: 1905 Bright Amp	008:1959_VINTage	-	The state read and an I JA77 CLE
UU1: Jazz_Clean	UU9: I weed_Bass	-	
002: MS_Crunch	010: HW_100		
003: MB_Recti_Vintage	011: DzBert_Clean		Parties Hilling
004: MB_Recti_Modern	012: DzBert_Orunch		A designed and a desi
005: VX_UK30	013: DzBert_Drive		Weithford State (Section 1997)
006: ELHV_Rhythm	01 4: Matching_30		The function of the second of
007: ELVH_Lead	015:Tangerine_+		AND THE POINT OF T
<			
IMPORT	EXPORT STORE		
NEW			

The current setting gets cleared.





The patch data still remains after this operation.

Exporting current setting

To export the current setting to an external file on your computer, follow the instruction below.

1. Click the [PATCH] button above the Tool Area.



2. Click the [PATCH EXPORT] button at the bottom of the Patch Manager.



As the "Save As" dialog appears, select the destination and execute "Save As".





NDTE The file extension of the patch files are "*.zfp".

Importing current setting

To import an external file into a current setting, follow the instruction below.

1. Click the [PATCH] button above the Tool Area.



The corresponding LED lights on, and the Patch Manager comes available.

2. Click the [PATCH IMPORT] button at the bottom of the Patch Manager.

008:1959_Vin tage	01 6: No Name	
009: Tweed Bass	017: No_Name	2
010: HW_100	018: No_Name	2
011: DzBert_Olean	019: No_Name	2
012: DzBert_Orunch	020: No_Name	2
013: DzBert_Drive	021: No_Name	2
014: Matching 30	022: No Name	
015:Tangerine_+	023: No_Name	
<	_	13
IMPORT	EXPORT	STORE
NEW	DELETE	STORE AS





3. Select and open the file (*.zfp) to import.



The effect setting gets loaded.



Operating banks

With the Patch Manager, you can create, delete, export, and import the banks. To get work with the banks, follow the instruction below.

Creating a bank

You can create banks with no limit as far as your hard disk drive has enough space. To create a new bank, follow the instruction below.

1. Click the [PATCH] button above the Tool Area.



2. Click the [BANK NEW] button at the middle of the Patch Manager.



The new bank gets created in the [BANK SELECT] list.

023: 24_Wah	Ì.		~
024: 25_Mod	dulation		
025 26_Dek	sy_Reverb		
026: 27_Too	8		
027: 28_SF>	(
028: 000000	00		~
NEW	DELETE	IMPORT	EXPORT
000: No Nam	ė	008: No Name	
001 No Nam	e;	009: No Name	



The new banks are named consecutively from "0". You may rename it for your purpose. (\rightarrow P071)

Ordering banks

To change the order in the [BANK SELECT] list, follow the instruction below.

1. Click the [PATCH] button above the Tool Area.



2. Start dragging the bank you wish to move in the [BANK SELECT] list.



The bank starts getting dragged.

3. Drop the bank at the destination.

000	: 01_Amp	Demo		~
001: 05_Metal_Artist				
002: 02_Effects_Demo				
003: 03_Rock_Artist				
004: 04_JazzBlues_Artist				
005: 06_1965_Bright_Amp				
006	07 JAZ	Z CLEAN		~
	NEW	DELETE	IMPORT	EXPORT
	CH SELE	CT		
PAT				
DOO	EVH_Sta	ick	008: Vol3Dual	
000 001	EVH_Sta	ick sejv	008: Vol3Dual 009: Randy Pu	ls

The bank will be inserted to the destination.

Renaming banks

To rename the bank, follow the instruction below.

1. Click the [PATCH] button above the Tool Area.


2. Double-click over the bank you wish to rename in the [BANK SELECT] list.



The bank name becomes editable.



The characters you can use for the bank names are as below. Numbers: 0 - 9 Alphabets: A – Z, a - z Symbols: (space)!"#%&'()+,-.;=@[]^_`{}~

3. Input the bank name, and press ENTER to validate.



The bank gets renamed.



Besides pressing enter, you can select other banks in order to validate.

Deleting banks

To delete the bank, follow the instruction below.

1. Click the [PATCH] button above the Tool Area.



The corresponding LED lights on, and the Patch Manager comes available.

2. Click the target bank in the [BANK SELECT] list.



The [PATCH SELECT] list refreshes according to the bank you have selected.

3. Click the [BANK DELETE] button at the middle of the Patch Manager.

000	: 01_Amp	Demo			
001	02_Effe	cts_Demo			
002	: 03_Rock	Artist			
003	04_Jazz	Blues_Artist			
004	05_Meta	al_Artist			
005	06_1965	5_Bright_Am	p		
006	07 JAZ	Z CLEAN			
	NEW	DELETE		MPORT	EXPO
PAT	CH SELE	CT	1		
	All Dulas	aman	008	LAL uke	
000	Aucouan	ernan	000	and other output	
000	BackNB	ack Ansus	009	MayQuee	n

The bank and corresponding patches gets deleted.





You cannot delete the last bank. To delete it, create a new one. (\rightarrow P069) Be aware that you cannot restore the bank after deleting it.

Exporting banks

To export the bank to the external file, follow the instruction below.

1. Click the [PATCH] button above the Tool Area.



The corresponding LED lights on, and the Patch Manager comes available.

2. Click the target bank in the [BANK SELECT] list.



The bank inverts and gets selected.

3. Click the [BANK EXPORT] button at the middle of the Patch Manager.





The "Save As" dialog opens. Select the destination, and save the file.



The file extensions are *.zfb.

Importing banks

To import the external bank file, follow the instruction below.

1. Press the [PATCH] button above the Tool Area.



The corresponding LED lights on, and the Patch Manager comes available.

2. Click the [BANK IMPORT] button at the middle of the Patch Manager.



The "Open File" dialog opens.



3. Open the external bank file (*.zfb).

)pen						?
Look in:	🚞 My Patche	\$	~	000	.	
My Recent Documents	ACB_Bass37	70.zfb rb.zfb zfb				
Desktop						
My Documents						
My Computer						
	File <u>n</u> ame:	MS_Crunch		×	E	Open L
Mu Network	Files of tune:	Is and the (* alla)		(a)		-

The imported bank data will be added at the end of [BANK SELECT] list.

023: 24_Wah		-
024: 25_Modulation		
025 26 Delay Reverb		
026: 27_Tools		
027: 28_SFX		
028:04_JazzBlues_Arti	st_0000	~
NEW DELET	E IMPORT	EXPORT
NEW DELET	E IMPORT	EXPORT
NEW DELETI PATCH SELECT 000: BB - JJ 001: BriAbilly	E IMPORT 008: Metheny_C 009: MuddyWhat	EXPORT

Bypassing Area

At the Bypassing Area, you can bypass (disabling the effects) and mute (disabling the whole input) the sounds. Also with [CURRENT/ ORIGINAL] button, you can compare the sounds between the current patch setting and its original patch setting, which have been recently stored.

Controls and Functions



Bypassing the sound

With the [BYPASS] button, you can bypass the effect setting. While bypassing, the [BYPASS] indication lights as below.



To end bypassing, click the [BYPASS] button once again.

Muting the sound

With the [MUTE] button, you can mute the output sound. While muting, the [MUTE] indication lights as below.



To end muting, click the [MUTE] button once again.

Comparing current and original state

With [CURRENT/ORIGINAL] button, you can compare the sounds between the current patch setting and its original patch setting, which have been recently stored. The condition switches as the button is pressed.



As above, the original state is shown in sepia tone, and the setting which have been recently stored will be displayed. The [CURRENT/ORIGINAL] button indicates the condition.





While the original setting is displayed, you cannot edit the effect setting, such as setting or deleting effect types, adjusting parameters, or rewiring the shields.



Be aware that the original setting will be overwritten with the current setting, when the patch is stored through [STORE] or [STORE AS]. (\rightarrow P058)

The [PATCH NEW] button clears only the current setting. (→P066)

Tuner

In addition to the standard chromatic tuner, ZFX Plug-in supports the other tuning methods. You can also drop half or whole tone, or adjust the tuning calibration (the reference frequency). The details are as below.

Starting up the tuner



To start up the tuner, follow the instruction below.

Click the [TUNER] button above the Tool Area.

CATALOG TUNER CONTROL PATCH

1) Pitch LED

2 High/Low LED

This indicates the precise pitch in resolution of five cents. When the pitch is high, the indication moves right, and when it is low, it moves left. At the just tune, the center LED lights on.

When the pitch is high, the LED at the right side lights on, and when it is low, the LED at the left side lights on. The both get lit at the just tune.

③ The pitch name or the string number	With the chromatic tuner, this indicates the nearest pitch name. With other tuning methods, this indicates the string number, which have been played.
④ Tuner mode	This indicates the current tuner mode.
⑤ [TUNER MODE] button	This lets you switch the tuner modes.
⑥ [DOUBLE FLAT] button	This lets you tune your guitar with a whole
	tone dropped.
⑦ [FLAT] button	This lets you tune your guitar with a half tone dropped.
8 Calibration value	This indicates the calibration value, the
	frequency to refer.
9 [CALIBRATION] button	This increases and decreases the calibration
	value.

Using the chromatic tuner

To start tuning with chromatic tuner, follow the instruction below.

1. Click the [TUNER] button above the Tool Area.



The corresponding LED lights on, and the Tuner comes available.

2. Set the mode to "Chromatic" with [TUNER MODE] button.



The chromatic tuner starts working.



The nearest pitch name indicates as below.

Pitch name	Indication	Pitch name	Indication
А	<u>H</u>	D#	Ħ.
A#	Ħ.	Ш	E.
В	B	F	E.
С	E.	F#	E.
C#	Ħ.	G	6
D	<u>II</u>	G#	6.

4. Tune the string referring the pitch LED and the high/low LED. At the just tune, the center of the pitch LED lights on, as well the both high/low LED.





You may tune roughly at first, until the right pitch name gets indicated, and then tune precisely referring the pitch LED and the high/low LED.

Adjusting the calibration

With the [CALIBRATION] button at the sides of the calibration value, you can adjust the reference frequency (center A), within the range between 435 and 445.





When the ZFX Plug-in is booted, as default, the calibration pitch is set to "440Hz" (center A is at 440Hz).

Dropping a half tone

You can tune by dropping a half tone, despite whatever the tuner mode. To drop a half tone, click the [FLAT] button. The [FLAT] button lights on, and the half tone drop mode starts working.



To cancel, press the [FLAT] button again.

Dropping a whole tone

You can tune by dropping a whole tone, despite whatever the tuner mode. To drop a whole tone, click the [DOUBLE FLAT] button. The [DOUBLE FLAT] button lights on, and the whole tone drop mode starts working.



To cancel, press the [DOUBLE FLAT] button again.



You cannot enable both the [FLAT] and the [DOUBLE FLAT] at the same time.

Using other tuner types

ZFX Plug-in supports other tuning methods beside the chromatic tuner, such as the standard tuning for the guitar/bass, and open tunings. To switch these tuner modes, follow the instruction below.

1. Click the [TUNER] button above the Tool Area.



The corresponding LED lights on, and the Tuner comes available.

2. Click the [TUNER MODE] button to select the tuner mode.



Tuner	mode	Guitar	Bass	Drop D	OPEN A	OPEN G	OPEN E	OPEN D	DADGAD
	STR 1	Е	G	E	E	D	Е	D	D
	STR 2	В	D	В	C#	В	В	А	А
	STR 3	G	А	G	А	G	G#	F#	G
String number	STR 4	D	Е	D	E	D	Е	D	D
	STR 5	А	В	А	А	G	В	А	А
	STR 6	E		D	E	D	E	D	D
	STR 7	В							

The available tuner modes and their tunings are as below.

3. Get tuning as in 3 and 4 of "Using the chromatic tuner". The string number will be indicated beside the pitch name, but the operations are same.





You may tune roughly at first, until the right pitch name gets indicated, and then tune precisely referring the pitch LED and the high/low LED.



When the ZFX Plug-in is booted, the tuner mode is set to chromatic tuner as default.

Expression pedal and foot switches

You can control the ZFX Plug-in on real-time, with the built-in expression pedal and foot switches of C5.1t, or with the optional foot pedal and foot switch of S2t. The effect parameters can be assigned to them, and the foot switches can also change the banks and patches, bypass, and mute. The details are as below.

Starting up the Pedal/Switch Manager

Click the [CONTROL] button above the Tool Area.



The corresponding LED lights on, and the Pedal/Switch Manager comes available.



Notice the machine image at the bottom. This indicates whether S2t or C5.1 is connected, and can be switched also. (\rightarrow P106)



The Pedal/Switch Manager with the C5.1t connection

1 [EFX PRM ASSIGN] list

- ② [TARGET] box
- 3 [CONTROL] box

The parameter assignments will be listed here.

This indicates the assigned effect type.

This lets you check easily how the pedal/

CALIBRATION] button	
() [SET PEDAL	through the MIDI message. This lets you adjust the built-in pedal of C5.1t.
[MIDI] button	events, when multiply booted.(→P106) This lets you receive the pedal/switch events
1 [CONNECT] button	[CONTROL] box, between S2t and C5.1t. This indicates and switches the active ZFX
 [ASSIGN] box [TARGET SWITCH] buttor 	will be listed here. This lets you assign the global settings. This switches the machine image at the
⑧ [GLOBAL SETTING] list	SETTING] list. The global assignments for the foot switches
⑦ [ENABLE] check box	pedals/switches through this icon. This enables the settings in the [GLOBAL
(TRASH CAN) icon(ASSIGN) icon	name, and lets you set the available parameter range for each assignment. This lets you delete the assignments. You can assign the effect parameters to
④ [MIN/MAX] box	switch works. This indicates the assigned effect parameter

The Pedal/Switch Manager with the S2t connection



1 [EFX PRM ASSIGN] list	The parameter assignments will be listed here.
2 [GLOBAL SETTING] list	The global assignments for the external foot
3 [CONTROL] box	This lets you check easily how the pedal/

This lets you check easily how the pedal/ switch works.

Assigning parameters

To control the effect parameters through the foot switches and expression pedal, you have to assign the parameter at the [EFX PRM ASSIGN] list. To assign the parameters, follow the instruction below.

Assigning parameters to expression pedal

Assign the parameter to the C5.1t built-in expression pedal or the S2t external pedal as below. The "PEDAL BOX" is for example.

1. Click the [CONTROL] button above the Tool Area.



The corresponding LED lights on, and the Pedal/Switch Manager comes available.

TARGET	PRM MIN/MAX	ASSIGN
NO ASSIGN	NO ASSIGN	ASSICH
NO ASSIGN	NO ASSIGN	ASSIGN
NO ASSIGN	NO ASSIGN	ASSIGN
NO ASSIGN	NO ASSIGN	ASSIGN
NO ASSIGN	NO ASSIGN	ASSIGN
OR SWITCH 9		
	NO ASSIGN	1111
CR SWITCH 2	Ho Hooldh	
CR SWITCH 2 CR SWITCH 3	NO ASSIGN	Î



Notice that the machine image in the [CONTROL] box is the one you have connected. If it differs, press the [TARGET SWITCH] button at the right top of [CONTROL] box, and select the proper machine. (\rightarrow P106)

2. Scroll the [EFX PRM ASSIGN] list to the topmost. With C5.1t, [PEDAL] row will be displayed, and with S2t, [EXT PEDAL] row will be displayed.

OR PEDAL TARRET	PRM MIN/MAX	ASSIN	IF EXT PEDAL TABLET	PRM MIN/MAX	ASSID
NO ASSIGN	NO ASSIGN	ASSIGN	NO ASSIGN	NO ASSIGN	ASSICH
NO ASSIGN	NO ASSIGN	ASSIGN	NO ASSIGN	NO ASSIGN	ASSIGN
NO ASSIGN	NO ASSIGN	ASSIGN	NO ASSIGN	NO ASSIGN	ASSIGN
NO ASSIGN	NO ASSIGN	ASSIGN	NO ASSIGN	NO ASSIGN	ASSIGN
NO ASSIGN	NO ASSIGN	ASSIGN	NO ASSIGN	NO ASSIGN	ASSIGN
PATCH CHANGE ASSI	GN -GLOBAL SETTING	M EN/	LE PATCH CHANGE AS	SIGN -GLOBAL SETTING	V ENAB
CR SWITCH 1	NO ASSIGN	前	IF EXT SWITCH	NO ASSIGN	The last
		am			100

3. Start dragging the [ASSIGN] icon in the [EFX PRM ASSIGN] list, and drop it to the pedal of "PEDAL BOX".



The "WAH" parameter "WAH" of the "PEDAL BOX" will be assigned to the expression pedal.

TARGET	PRM MIN/MAX	ASSIGN
PEDAL BOX	Wah	III
NO ASSIGN	NO ASSIGN	ASSIGN
NO ASSIGN	NO ASSIGN	ASSIGN
NO ASSIGN	NO ASSIGN	ASSICH
NO ASSIGN	NO ASSIGN	ASSIGN



You can assign five parameters maximum for each pedal/switch, and the parameters can be controlled simultaneously.

Assigning parameters to foot switches

Assign the parameter to the C5.1t built-in foot switch or the S2t external foot switch as below. The "FUZZ SMILE" is for example.

1. Click the [CONTROL] button above the Tool Area.



The corresponding LED lights on, and the Pedal/Switch Manager comes available.

2. Scroll the [EFX PRM ASSIGN] list to the row corresponding to the target switch. Select [SWITCH 1] for C5.1t, and [EXT SWITCH] for S2t.

OR SWITCH 1		~	JF EXT SWITCH		~
TARGET	PRM MIN/MAX	ASSIEN	TARGET	PRM MIN/MAX	ASSIGN
NO ASSIGN	NO ASSIGN	ASSIGN	NO ASSIGN	NO ASSIGN	ASSIGN
NO ASSIGN	NO ASSIGN	ASSIGN	NO ASSIGN	NO ASSIGN	ASSIGN
NO ASSIGN	NO ASSIGN	ASSIGN	NO ASSIGN	NO ASSIGN	ASSIGN
NO ASSIGN	NO ASSIGN	ASSIGN	NO ASSIGN	NO ASSIGN	ASSICH
NO ASSIGN	NO ASSIGN	ASSIGN	NO ASSIGN	NO ASSIGN	ASSIGN
and a sharehold a day	And the summer of the summer		Conference and	Addition of the second	
PATCH CHANGE ASS	IGN -GLOBAL SETTING	ENABLE	PATCH CHANGE ASS	IGN -GLOBAL SETTING	✓ ENABL
CD SWITCH 1	NO ASSTON	A	TE EXT SWITCH	NO ASSIGN	

3. Start dragging the [ASSIGN] icon, and drop it to the ON/OFF switch of "FUZZ SMILE".



The ON/OFF parameter of the "FUZZ SMILE" will be assigned to the switch.

OR SWITCH 1	DOM NOV (MAX		~
FUZZ SMILE	On/Off	ASSIGN	Ĩ
NO ASSIGN	NO ASSIGN	ASSICH	6
NO ASSIGN	NO ASSIGN	ASSIGN	
NO ASSIGN	NO ASSIGN	ASSIGN	
NO ASSIGN	NO ASSIGN	ASSIGN	*
PATCH CHANGE ASSI	GN -GLOBAL SETTING	M ENA	BL
OR SWITCH 1	NO ASSIGN	T	~



You can assign five parameters maximum for each pedal/switch, and the parameters can be controlled simultaneously.

Adjusting the parameter range

You can set the minimum and maximum value for each parameter assignment, in order to adjust its effective range.

1. Click the [CONTROL] button above the Tool Area.

	0	0	0		-
-	Concession of the local division of the loca	Contraction of the local division of the loc		-	-
-	CATALOG	TUNER	CONTROL	PATCH	-

The corresponding LED lights on, and the Pedal/Switch Manager comes available.

2. Hover the mouse pointer over the [MIN/MAX] box.



See the minimum and maximum value appears. The left value is the minimum, and the right value is the maximum.



The parameter value becomes minimum when the pedal is fully raised, and becomes maximum when fully depressed. With the foot switch, the value switches between minimum and maximum.

3. The minimum value can be adjusted through the downward triangle. Drag it horizontally to adjust.

TARGET	PRM MIN/MAX	ASSIGN
PEDAL BOX		UIE
NO ASSIGN	NO ASSIGN	ASSIGN
NO ASSIGN	NO ASSIGN	ASSICH
NO ASSIGN	NO ASSIGN	ASSICH
NO ASSIGN	NO ASSIGN	ASSIGN

The minimum value gets adjusted.

4. The maximum value can be adjusted through the upward triangle. Drag it horizontally to adjust.

The second se		
PEDAL BOX	0x 36	× 🔟
NO ASSIGN	NO ASSIGN	ASSIGN
NO ASSIGN	NO ASSA	ASSICH
NO ASSIGN	NO ASSIGN	ASSICH
NO ASSIGN	NO ASSIGN	ASSIGN
PATCH CHANGE ASSIG	N -GLOBAL SETTING	M ENAB

The maximum value gets adjusted.



The available range depends to the effect parameter which have been assigned. "Minimum" value can be set higher than "Maximum" value. In this case, the parameter value becomes minimum when the pedal is fully depressed, and becomes maximum when fully raised.

Deleting the assignment

To delete the assignment of pedal/switche, follow the instruction below.

1. Click the [CONTROL] button above the Tool Area.



The corresponding LED lights on, and the Pedal/Switch Manager comes available.

2. Click the [TRASH CAN] icon in the [EFX PRM ASSIGN] list to delete the assignment.

TARGET	PRM MIN/MAX	ASSIGN
1965 Bright Amp	VOLUME	ŵ.
NO ASSIGN	NO ASSIGN	ASSIGN
NO ASSIGN	NO ASSIGN	ASSICN
NO ASSIGN	NO ASSIGN	ASSICH
NO ASSIGN	NO ASSIGN	ASSIGN

The assignment gets deleted.

TARGET	PRM MIN/MAX	ASSIGN
NO ASSIGN	NO ASSIGN	ASSIGN
NO ASSIGN	NO ASSIGN	ASSICH
NO ASSIGN	NO ASSIGN	ASSIGN
NO ASSIGN	NO ASSIGN	ASSIGN
NO ASSIGN	NO ASSIGN	ASSIGN

Assigning Global Settings

The patch/bank selection, bypass, mute functions can be assigned to the C5.1t built-in switches, and the S2t external switch through the [GLOBAL SETTING] list. To assign these functions, follow the instruction below.

Assigning next/previous patch selection

Below is the assignment of the next/previous patch function. With this, you can move to the next patch or the previous patch. The C5.1t foot switch 1 is for example.

1. Click the [CONTROL] button above the Tool Area.



The corresponding LED lights on, and the Pedal/Switch Manager comes available.

2. Click the [ASSIGN] button at the row of the control, which you are going to assign. The "SWITCH 1" is for example.



The function list appears as below.



3. Click the item "NEXT PATCH" in the function list.





OR SWITCH 1	NEXT PATCH	m	^
OR SWITCH 2	NO ASSIGN	Î	
on ourrout o	Lin Longraph	-	
CR SWITCH 3	NO ASSIGN		V
USB Audio Interfa	ce C5.11	DN SET	V
USB Audio Interfa	CE C5.11	DN SET	rind
USB Audio Interfa		DN SET	ring Di

4. You can assign the previous patch function as well, by selecting the "PREV PATCH" item.





For the S2t external foot switch, assign the function to the "EXT SWITCH" row.

	IF EXT SWITC	CH N	IO ASSIGN		*
			7	=	
				×	
1	USB Audio Int	erface S2	t		
	EXT SWITCH	EXT PEDA	CONNECT	UN SETTING	
			CONNECT	MIDI	
	===				

To enable the setting, the [ENABLE] check box has to be checked. (\rightarrow P102)

Assigning next/previous bank selection

Below is the assignment of the next/previous bank function. With this, you can move to the next bank or to the previous bank. The C5.1t foot switch 2 is for example.

1. Click the [CONTROL] button above the Tool Area.



The corresponding LED lights on, and the Pedal/Switch Manager comes available.

2. Click the [ASSIGN] button at the row of the control, which you are going to assign. The "SWITCH 2" is for example.



The function list appears as below.



3. Click the item "NEXT BANK" in the function list.



The next bank function have been assigned to the C5.1t foot switch 2.



4. You can assign the previous bank function as well, by selecting the "PREV BANK" item.

OR SWITCH 1	NEXT PA	лон 📺 🖆
CR SWITCH 2	NO ASSI	NEXT PATCH
CR SWITCH 3	NO ASSI	PREV PATCH
		1 million 1
ICR AUNT INTO A	a new V	NEXT BANK
USB Audio interfac	PEDAL CON	NEXT BANK
USB Audio Interfac	CON	NEXT BANK PREV BANK PATCH
USB Audio Interfac	DEDAL CON	NEXT BANK PREV BANK PATCH BYPASS



For the S2t external foot switch, assign the function to the "EXT SWITCH" row. To enable the setting, the [ENABLE] check box has to be checked. (\rightarrow P102)



After changing the bank, the patch change will occur according to the current patch index.

Assigning the patch selection

Below is the assignment of the patch bank function. With this, you can jump to the certain patch index you have assigned. The C5.1t foot switch 3, and the patch "015" is for example.

1. Click the [CONTROL] button above the Tool Area.



The corresponding LED lights on, and the Pedal/Switch Manager comes available.

2. Click the [ASSIGN] button at the row of the control, which you are going to assign. The "SWITCH 3" is for example.



The function list appears as below.



3. Click the item "PATCH" in the function list.



The patch selection dialog appears as below.



① Destination patch list

2 [OK] button

The destination patch should be selected here.

This lets you validate the destination.

4. Click the patch number "015".

000: 1965_Bright_Amp	008: 1959_Vintage
101: Jazz_Clean	009: Tweed_Bass
02: MS_Crunch	010: HW_100
103: MB_Recti_Vintage	011: DzBert_Clean
04: MB_Recti_Modern	012: DzBert_Crunck
05: VX_UK30	013: DzBert_Drive
106: ELHV_Rhythm	014: Matching_30
007: ELVH_Lead	015: Tangerine_+ N
<	n
	OF OF

The patch number "015" inverts.

5. Click the [OK] button.

001: Jazz_Clean 009: Tweed_Bass 002: MS_Crunch 010: HW_100 003: MB_Recti_Vintage 011: DzBert_Clean 004: MB_Recti_Modern 012: DzBert_Crunch 005: VX_UK30 013: DzBert_Drive 006: ELHV_Rhythm 014: Matching_30 007: ELVH_Lead 015: Tangerine_+	000: 1965 Bright Amp	008: 1959_Vintage
002: MS_Crunch 010: HW_100 003: MB_Recti_Vintage 011: DzBert_Clean 004: MB_Recti_Modern 012: DzBert_Crunch 005: VX_UK30 013: DzBert_Drive 006: ELHV_Rhythm 014: Matching_30 007: ELVH_Lead 015: Tangerine_+	001: Jazz_Clean	009: Tweed_Bass
003: MB_Recti_Vintage 011: DzBert_Clean 004: MB_Recti_Modern 012: DzBert_Crunch 005: VX_UK30 013: DzBert_Drive 006: ELHV_Rhythm 014: Matching 30 007: ELVH_Lead 015: Tangerine_+	002: MS_Crunch	010: HW_100
004: MB_Recti_Modern 012: DzBert_Crunch 005: VX_UK30 013: DzBert_Drive 006: ELHV_Rhythm 014: Matching 30 007: ELVH_Lead 015: Tangerine_+	003: MB_Recti_Vintage	011: DzBert_Clean
005: VX_UK30 013: DzBert_Drive 006: ELHV_Rhythm 014: Matching_30 007: ELVH_Lead 015: Tangerine_+	004: MB_Recti_Modern	012: DzBert_Crunch
006: ELHV_Rhythm 014: Matching_30 007: ELVH_Lead 015: Tangerine_+	005: VX_UK30	013: DzBert_Drive
007: ELVH_Lead 015: Tangerine_+	006: ELHV_Rhythm	014: Matching_30
	007: ELVH_Lead	015: Tangerine_+
	< 1 III 1	12

The patch "015" have been assigned to the C5.1t foot switch 3.





For the S2t external foot switch, assign the function to the "EXT SWITCH" row. To enable the setting, the [ENABLE] check box has to be checked. (\rightarrow P102)



With this function, you cannot target a patch in a certain bank. The patch will be changed to the selected index in the current bank.

Assigning the bypass/mute function

You can bypass/mute the ZFX Plug-in through the foot switch. To assign these functions, follow the instruction below. C5.1t foot switch 4 for example.

1. Click the [CONTROL] button above the Tool Area.



The corresponding LED lights on, and the Pedal/Switch Manager comes available.

2. Click the [ASSIGN] button at the row of the control, which you are going to assign. The "SWITCH 4" is for example.



The function list appears as below.



3. Click the item "BYPASS" in the function list.





CR SWITCH 4 BYPASS III	OR SWITCH 3	Santana	, the	^
CR SWITCH 5 NO ASSIGN	CR SWITCH 4	BYPASS	Î	
	CR SWITCH 5	NO ASSIGN	m	L
	USB Audio Intert			N
CONNECTION SETTIN	USB Audio Interf	ace C5.11	ION SET	TIN
	USB Audio Interf	ACE C5.11 CONNECTION	ON SET	TIN

4. For the mute function, select the "MUTE" item from the function list.





For the S2t external foot switch, assign the function to the "EXT SWITCH" row. To enable the setting, the [ENABLE] check box has to be checked. (\rightarrow P102)

Enabling the Global Setting

To enable the assignments of the [GLOBAL SETTING] list, the [ENABLE] check box has to be clicked and checked as below.



With the check, the [GLOBAL SETTING] assignment will be enabled. When the [GLOBAL SETTING] assignments and the [EFX PRM ASSIGN] assignments compete each other at the same control, the [GLOBAL SETTING] will have the priority.



To disable the [GLOBAL SETTING] list, click the [ENABLE] check box again.

Canceling the assignment

To delete the assignment in the [GLOBAL SETTING] list, click the [TRASH CAN] icon at the corresponding row.



The assignment will be deleted.



Operating the machine image

With the [CONTROL] box at the left bottom, you can easily check how the pedal/switch works. For the operation, follow the instruction below.

Checking pedal assignments

To check how the pedal works, drag the pedal image in the [CONTROL] box vertically.





The effect parameters will be adjusted according to the assignment.



The built-in pedal of C5.1t has a switch within, which can be triggered when the pedal is pushed into further after fully depressed. You can also assign an effect parameter to this switch in the [EFX PRM ASSIGN] list. To check its effect, click the switch aside the pedal image.



Checking foot switch assignments

To check how the foot switches work, click the switch image in the [CONTROL] box.



The effect parameters will be adjusted according to the assignment.



Switching USB Audio Interface S2t/USB Audio Interface C5.1t

The S2t and the C5.1t machine image can be switched each other with the [TARGET SWITCH] button aside the machine name.



The image and the assignment list will be switched.

						~
u	ISB Audio In	terface	S2t			
ſ	EXT SWITCH	EXT PE	DAL	ONNECTI	ON SETT	ING
				CONNECT	MID	I

Other functions

Below is the instruction for the other functions. Here you can set the calibration of the C5.1 built-in pedal, can specify whether you are receiving MIDI events or not, and can switch the active ZFX Plug-in which receives the pedal and switch events, when they are multiply booted.

Targeting the instance

When the ZFX Plug-in is multiply booted, only one of them can receive the pedal and switch events. To switch the active instance, click its [CONNECT] button.



The [CONNECT] button lights on, and the belonging plug-in starts receiving the pedal/switch events.

CR SWITCH 2 NO ASSIGN TO ASSIGN	OR SWITCH 1	NO ASSIGN	m	^
CR SWITCH 3 NO ASSIGN	OR SWITCH 2	NO ASSIGN	Î	
	CR SWITCH 3	NO ASSIGN	İ	v
USB Audio Interface C5.11	CR SWITCH 3 USB Audio Interfac	NO ASSIGN		~
USB Audio Interface C5.11 CONNECTION SETTIN	CR SWITCH 3 USB Audio Interfac	NO ASSIGN	ON SET	TIN
USB Audio Interface C5.11 CONNECTION SETTIN	USB Audio Interfac	NO ASSIGN	ON SET	



Click the [CONNECT] button again to cancel.



When the [CONNECT] button is on, the other ZFX Plug-in will be disconnected.

Receiving MIDI message

The switches and pedals of the C5.1t/S2t will send out the MIDI message. Generally, you can easily control the effects and patches when the [CONNECT] button is on (\rightarrow 106), but as a advanced use, you can automate the parameters through DAW applications with the MIDI messages. To receive the MIDI message to control the effects and patches, click the [MIDI] button.


The [MIDI] button lights on, and the ZFX Plug-in starts receiving the MIDI messages. For the automation and other use, keep the [MIDI] button on.

CR SWITCH 2 NO ASSIGN
CR SWITCH 3 NO ASSIGN



Click the [MIDI] button again to turn off.



For the details of the automation, refer the operation manual of your DAW application.

Adjusting pedal calibration

When the C5.1t is connected to computer, the [SET PEDAL CALIBRATION] button appears in the Pedal/Switch Manager. The built-in pedal calibration is adjusted at the shipment, but can be adjusted again if necessary. If the pedal is less sensitive or too sensitive, adjust its calibration as below.

1. Click the [CONTROL] button above the Tool Area.



The corresponding LED lights on, and the Pedal/Switch Manager comes available.

2. Click the [SET PEDAL CALIBRATION] button at the right bottom of the Pedal/Switch manager.



Follow the instruction 1, 2 and 3 shown in the calibration setting dialog.

Pedal Calibration		
STEP1	With expression pedal fully raised, press the [OK] key. OK Push expression pedal fully down and then lift your foot off the pedal. Press the [OK] key.	① [OK] button
~		② [EXIT] button
1 [OK] button	This validates the	e setting at each pha

② [EXIT] button

This validates the setting at each phase. This lets you cancel the calibration setting.

3. As shown in the dialog, fully raise the expression pedal, and click the [OK] button at the STEP1 row.



The minimum value gets set.

4. Fully depress the expression pedal, lift your foot, and the click the [OK] button at the STEP2 row.



The maximum value gets set.

5. Notice the "COMPLETE!" message appears in STEP3. Click the [EXIT] button to exit the dialog.

Pedal Calibration		×
STEP1	With expression pedal fully raised, press the [OK] key.	
STEP2	Push expression pedal fully down and then lift your foot off the pedal. Press the [OK] key.	
+		
COMPLETE!	Pedal setting is completed, press the [OK] key.	

The dialog closes. The [EXIT] button can be pressed at any phase to cancel the adjustment.



If the STEP3 indicates "ERROR!", please restart the setting from 3 (STEP1).

Pedal Calibration		X
STEP1	With expression pedal fully raised, press the [OK] key.	
STEP2	Push expression pedal fully down and then lift your foot off the pedal. Press the [OK] key.	
STEP3	Setting error, press the [OK] key. OK	
	_	



The [SET PEDAL CALIBRATION] button will not appear when the S2t is connected.

Standalone mode

ZFX Plug-in can be booted standalone through the ZFX host application, with DAW applications. The host application has three menus, "File", "Device", and "Help". The File menu lets you set the BPM and quit the application. With the Device menu, you can select and configure the ASIO drivers, and can connect/disconnect the C5.1t and the S2t. The Help menu lets you check the ZFX Plug-in version. See below for the detail.

Starting up the host application





ZFX Plug-in starts up standalone.

3 ZFX Plag-in						
File(E) Device(D) Help/EP						_
	-		SINGLE / INFUT	OUTPUT	i	
		2			7 14:04 80:04	
7666644	[199999]		· ·		V all	
		BRIGHT	0 0	1 101	and maker	1.0
1963 Bright Amp	JAZZ CLEAN				Bush	0
TRANSPORT	CHISHSH	1	VOLUME TREAL	E MIDOLE	BASS	
T MS Crunch	MB Dual Head					
	ELVH					
VXIEW	PUSTACE.					1
	and the second s	2		-	0 6 /	-
REPRESENT		3				
1959	Tweed Bass	8	6			ST. Sugar
-	Jules.	8		_		60
HW 100 Custom	DZ Bet	4	¢		0	
	-1-	100			BYPAS	WUTE
					CUNNE	T / ORIGINAL
			A STREET WATCHING		No. of Concession, Name	
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200		TREMOLO	(arring)			
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The item above might belong to the other folder, if it have been customized through installation.

Device Menu

To open the Device menu, click the item "Device" in the menu bar, or press [ALT + D] key. Functions in the device menu are as below.

Selecting ASIO driver

The available ASIO drivers are listed in the Device menu. See the current driver is checked. To switch, click the other device name.



The ASIO driver switches. As default, ZOOM S2t C5.1t ASIO driver is checked. For other audio interfaces, select the driver which corresponds.

Configuring ASIO driver

You can check the current device setting by clicking the item "Device Setting" in Device menu.



To configure the ASIO driver setting, click "Control Panel" in Device Setting window.



The control panel has a slider to adjust the audio latency. Please set it to the lowest value where there are no audible clicks or pops. The suitable value differs between the environments. With higher computer performance, the lower latency can be set. If not, the higher latency is recommended for the stability. The appearance of the control panel and the features which can be customized depend on ASIO driver.

Connect/Disconnect

To start the connection using the current ASIO driver, click the item "Connect" in the Device menu.



File Menu

To open the File menu, click the item "File" in the menu bar, or press [ALT + F] key. Functions in the File menu are as below.

Setting BPM

To set the BPM, click the item "BPM Setting" in the File menu.



The BPM setting dialog opens.

BpmSetting	
120.000	SET

Quitting application

Click the item "Quit" in the File menu to quit the ZFX Plug-in host application.



Help Menu

To open the Help menu, click the item "Help" in the menu bar, or press [ALT + H] key. The function is as below.

Displaying the current version

To check the current version of ZFX Plug-in, click the item "Version Info" in the Help menu.



Troubleshooting

•No sound or very low volume.

- Make sure that C5.1t/S2t is connected properly to your computer through USB cable.
- Make sure that the C5.1t/S2t is connected properly to your computer with USB cable.
- Try adjusting the [GAIN], [PHONE], and [OUTPUT] knob of the C5.1t/S2t.
- Make sure that the shielded cable is not defective.
- Try adjusting the [PATCH LEVEL] knob of the ZFX Plug-in. (\rightarrow P021)
- Try adjusting the [MASTER LEVEL] knob of the ZFX Plug-in. (→P021)
- Make sure the ZFX Plug-in is not in mute condition. (\rightarrow P078)
- For some patches, the volume can be adjusted with an expression pedal. Make sure that a suitable volume setting has been selected with the pedal.
- Try adjusting the Gain/Level parameters of the amplifiers and effectors in use.
- Make sure the input source setting of the ZFX Plug-in. (\rightarrow P019)
- Make sure that the PICKUP SELECTOR is properly selected. (\rightarrow P019)
- Make sure that the device configuration is proper. (\rightarrow P113)

Noise is noticeable

- Insert and adjust the ZNR module to your patch.
- Try lowering the Gain and Level parameters of the amplifiers and distortion effectors of the ZFX Plug-in.
- Check the settings of expression pedals (→ P085). Depending on its parameter assignment, a pedal action may cause drastic parameter change and result in noise.
- The deterioration, disconnection, or dirt of the guitar and shielded cables may affect. Check these peripheral devices before use.

The C5.1t/S2t cannot be detected by your computer

· Check that your operating system is adaptive.

The effect does not work

- · Check the LED of the inserted effect. The LED lights on when powered.
- Make sure the shielded cables are connected properly to the insert effect.
- Make sure the ZFX Plug-in is not in bypass condition. (→P077)

•The tuner does not work

Make sure that the input source is selected properly according to your connection. (→P019)

Appendix: Effect Types and Parameters

Guitar Amplifier

1965 BRIGHT AMP

Simulation of the Fender TwinReverb '65.

• BRIGHT	ON/OFF Enriches the high frequency range when turned on.
VOLUME	1.00 - 10.00 Adjusts the preamp gain (distortion depth).
• TREBLE	1.00 - 10.00 Adjusts boost/cut in the high frequency range.
• MIDDLE	1.00 - 10.00 Adjusts boost/cut in the middle frequency range.
• BASS	1.00 - 10.00 Adjusts boost/cut in the low frequency range.

JAZZ CLEAN

Simulation of the Roland JC-120.

• BRIGHT	ON/OFF Enriches the high frequency range when turned on.
VOLUME	0.00 - 10.00 Adjusts the preamp gain (distortion depth).
• TREBLE	0.00 - 10.00 Adjusts boost/cut in the high frequency range.
• MIDDLE	0.00 - 10.00 Adjusts boost/cut in the middle frequency range.
• BASS	0.00 - 10.00 Adjusts boost/cut in the low frequency range.

MS CRUNCH

Simulation of the Marshall JCM800.

PRESENCE	0.00 - 10.00 Adjusts boost/cut in the very high frequency range.
• BASS	0.00 - 10.00 Adjusts boost/cut in the low frequency range.

- MIDDLE 0.00 10.00 Adjusts boost/cut in the middle frequency range.
- TREBLE 0.00 10.00 Adjusts boost/cut in the high frequency range.
- MASTER VOLUME 0.00 10.00
 Adjusts the signal level after the process.
- PRE-AMP VOLUME 0.00 10.00 Adjusts the preamp gain (distortion depth).

MB DUAL HEAD

Simulation of the Mesa Boogie Dual Rectifier.

• CHANNEL	CLEAN:Channel suited for the clean sounds.VINTAGE:High gain channel suited for the lead sounds.MODERN:High gain channel with high frequency emphasis.Selects the amplifier channel.
PRESENCE	0.00 - 10.00 Adjusts boost/cut in the very high frequency range.
• MASTER	0.00 - 10.00 Adjusts the signal level after the process.
• GAIN	0.00 - 10.00 Adjusts the preamp gain (distortion depth).
• BASS	0.00 - 10.00 Adjusts boost/cut in the low frequency range.
• MID	0.00 - 10.00 Adjusts boost/cut in the middle frequency range.
• TREBLE	0.00 - 10.00 Adjusts boost/cut in the high frequency range.

VX UK30

Simulation of the Vox AC30TBX.

BRILLIANT	0.00 - 10.00 Adjusts the preamp gain (distortion depth).
• TREBLE	0.00 - 10.00 Adjusts boost/cut in the high frequency range.
• BASS	0.00 - 10.00 Adjusts boost/cut in the low frequency range.
• CUT	0.00 - 10.00 Adjusts cut in the high frequency range.

PV STACK

Simulation of the Peavey 5150.

• CHANNEL	RHYTHM: LEAD: Selects the ar	Channel suited for the backing sounds. Channel suited for the lead sounds. mplifier channel.
PRE GAIN (FOR RI	HYTHM Channe Adjusts the p	el) 0.00 - 10.00 reamp gain (distortion depth).
BRIGHT (FOR RHY	THM Channel) Enriches the l	ON/OFF nigh frequency range when turned on.
• CRUNCH	CLEAN/CRUN CLEAN: CRUNCH:	CH The clean sound gets obtained. The crunch sound gets obtained.
• PRE GAIN (FOR LE	AD CHANNEL) Adjusts the p	0.00 - 10.00 reamp gain (distortion depth).
• LOW	0.00 - 10.00 Adjusts boost	/cut in the low frequency range.
• MID	0.00 - 10.00 Adjusts boost	/cut in the middle frequency range.
• HIGH	0.00 - 10.00 Adjusts boost	/cut in the high frequency range.
POST GAIN	0.00 - 10.00 Adjusts the si	gnal level after the process.
RESONANCE	0.00 - 10.00 Adjusts boost	/cut in the very low frequency range.
PRESENCE	0.00 - 10.00 Adjusts boost	/cut in the very high frequency range.

1959

Simulation of the Marshall 1959.

PRESENCE	0.00 - 10.00 Adjusts boost	/cut in the very high frequency range.
• BASS	0.00 - 10.00 Adjusts boost	/cut in the low frequency range.
MIDDLE	0.00 - 10.00 Adjusts boost	/cut in the middle frequency range.
• TREBLE	0.00 - 10.00 Adjusts boost	/cut in the high frequency range.
HIGH TREBLE LOUDNESS1 0.00 - 10.00 Adjusts the high frequency distortion depth.		
NORMAL LOUDNES	SS2 Adjusts the lo	0.00 - 10.00 w frequency distortion depth.

TWEED BASS

Simulation of the Fender Bassman.

PRESENCE	1.00-12.00 Adjusts boost/cut in the very high frequency range.
• MIDDLE	1.00-12.00 Adjusts boost/cut in the middle frequency range.
• BASS	1.00-12.00 Adjusts boost/cut in the low frequency range.
• TREBLE	1.00-12.00 Adjusts boost/cut in the high frequency range.
VOLUME	1.00-12.00 Adjusts the preamp gain (distortion depth).

HW 100 CUSTOM

Simulation of the Hiwatt Custom 100.

NORMAL VOL	0.00 - 10.00 Adjusts the preamp gain (distortion depth).
• BASS	0.00 - 10.00 Adjusts boost/cut in the low frequency range.
• TREBLE	0.00 - 10.00 Adjusts boost/cut in the high frequency range.
• MIDDLE	0.00 - 10.00 Adjusts boost/cut in the middle frequency range.
PRESENCE	0.00 - 10.00 Adjusts boost/cut in the very high frequency range.
MASTER VOL	0.00 - 10.00 Adjusts the signal level after the process.

DZ BERT

Simulation of the Diezel Herbert.

• CHANNEL	CHANNEL1: Channel suited for the clean sounds.CHANNEL2: Channel suited for the crunch sounds.CHANNEL3: Channel suited for the high gain sounds.Selects the amplifier channel.
• GAIN	0.00 - 10.00 Adjusts the preamp gain (distortion depth).
VOLUME	0.00 - 10.00 Adjusts the signal level after the preamp section.
• TREBLE	0.00 - 10.00 Adjusts boost/cut in the high frequency range.

- MIDDLE 0.00 10.00
 Adjusts boost/cut in the middle frequency range.
- BASS 0.00 10.00 Adjusts boost/cut in the low frequency range.
- MID CUT ON/OFF Cuts the middle frequency range when turned on.
- INTENSE 0.00 10.00 Adjusts the cutting amount of the MID CUT.
 LEVEL 0.00 - 10.00 Adjusts the signal level after the mid cut process.
 PRESENCE 0.00 - 10.00 Adjusts baset (aut in the year) high fragmeneu renge
- Adjusts boost/cut in the very high frequency range.
 DEEP 0.00 10.00 Adjusts boost/cut in the very low frequency range.

MATCHING30

Simulation of the Matchless DC-30.

• VOLUME (FOR CH	I) 0.00 -10.00 Adjusts the prea	amp gain (distortion depth).
BASS (FOR CH I)	0.00 -10.00 Adjusts boost/cu	ut in the low frequency range.
• TREBLE (FOR CH I) 0.00 -10.00 Adjusts boost/ci	ut in the high frequency range.
• VOLUME (FOR CH	II) 0.00 -10.00 Adjusts the prea	amp gain (distortion depth).
• TONE (FOR CH II)	1-6 Adjusts cut in th	ne low frequency range.
• CUT	0.00 -10.00 Adjusts cut in th	ne high frequency range.
• MASTER	0.00 -10.00 Adjusts the sign	al level after the process.
• CHANNEL	CHANNEL CH I (CLEAN): CH II (DRIVE):	CLEAN/DRIVE Channel suited for the clean sounds. Channel suited for the lead sounds.

TANGERINE

Simulation of the Orange Graphic 120.

• F.A.C	1 - 6 Adjusts cut in the low frequency range.
• TREBLE	0.00 - 10.00 Adjusts boost/cut in the high frequency range.
• BASS	0.00 - 10.00 Adjusts boost/cut in the low frequency range.
HF DRIVE	0.00 - 10.00 Adjusts boost/cut in the very high frequency range
• GAIN	0.00 - 10.00 Adjusts the preamp gain (distortion depth).

Bass Amplifier

CLASSIC AMP

Simulation of the Ampeg SVT.

• GAIN	0.00 - 10.00 Adjusts the preamp gain (distortion depth).
• ULTRA HIGH	ON/OFF Enriches the high frequency range when turned on.
ULTRA LOW	ON/OFF Enriches the low frequency range when turned on.
• BASS	0.00 - 10.00 Adjusts boost/cut in the low frequency range.
MID RANGE	0.00 - 10.00 Adjusts boost/cut in the middle frequency range.
FREQUENCY	220Hz/450Hz/800Hz/1600Hz/3000Hz Selects the target frequency of the MID RANGE parameter.
• TREBLE	0.00 - 10.00 Adjusts boost/cut in the high frequency range.
• MASTER	0.00 - 10.00 Adjusts the signal level after the process.

100BASSMAN

Simulation of the Fender Bassman 100.

• DEEP	ON/OFF Enriches the low frequency range when turned on.
VOLUME	1.00 - 10.00 Adjusts the preamp gain (distortion depth).
• TREBLE	1.00 - 10.00 Adjusts boost/cut in the high frequency range.
• BASS	1.00 - 10.00 Adjusts boost/cut in the low frequency range.
 MASTER 	1.00 - 10.00 Adjusts the signal level after the process.

MS SUPER B

Simulation of the Marshall Super Bass.

PRESENCE	0.00 - 10.00 Adjusts boost/cut in the very high frequency range.
• BASS	0.00 - 10.00 Adjusts boost/cut in the low frequency range.
MIDDLE	0.00 - 10.00 Adjusts boost/cut in the middle frequency range.
• TREBLE	0.00 - 10.00 Adjusts boost/cut in the high frequency range.
VOLUME I	0.00 - 10.00 Adjusts the high frequency distortion depth.
VOLUME II	0.00 - 10.00 Adjusts the low frequency distortion depth.

AC BASS370

Simulation of the Acoustic 370.

 VOLUME 0.00 - 10.00 Adjusts the preamp gain (distortion depth). TREBLE -5.00 - 5.00 Adjusts boost/cut in the high frequency range. MID-RANGE -5.00 - 5.00 Adjusts boost/cut in the middle frequency range. BASS -5.00 - 5.00 Adjusts boost/cut in the low frequency range. 	• BRT	ON/OFF Enriches the high frequency range when turned on
 TREBLE -5.00 - 5.00 Adjusts boost/cut in the high frequency range. MID-RANGE -5.00 - 5.00 Adjusts boost/cut in the middle frequency range. BASS -5.00 - 5.00 Adjusts boost/cut in the low frequency range. 	VOLUME	0.00 - 10.00 Adjusts the preamp gain (distortion depth).
 MID-RANGE -5.00 - 5.00 Adjusts boost/cut in the middle frequency range. BASS -5.00 - 5.00 Adjusts boost/cut in the low frequency range. 	• TREBLE	-5.00 - 5.00 Adjusts boost/cut in the high frequency range.
BASS -5.00 - 5.00 Adjusts boost/cut in the low frequency range.	MID-RANGE	-5.00 - 5.00 Adjusts boost/cut in the middle frequency range.
	• BASS	-5.00 - 5.00 Adjusts boost/cut in the low frequency range.

- GRAPHIC EQUALIZER
 - 50Hz -5.00 5.00 Adjusts the boost/cut amount around 50Hz.
 - 100Hz -5.00 5.00 Adjusts the boost/cut amount around 100Hz.
 - 200Hz -5.00 5.00 Adjusts the boost/cut amount around 200Hz.
 - 300Hz -5.00 5.00 Adjusts the boost/cut amount around 300Hz
 - 400Hz -5.00 5.00 Adjusts the boost/cut amount around 400Hz.

HRT3500

Simulation of the Hartke HA3500.

• TUBE	0.00 - 10.00 Adjusts the mix level through the simulated tube amplifier.
SOLID STATE	0.00 - 10.00 Adjusts the mix level through the simulated solid-state circuit.
• COMP	OFF/ 0.00 – Inf Adjusts the sensitivity of the compressor.
• IN/OUT	IN(ON)/OUT(OFF) Sets ON/OFF the GRAPHIC EQUALIZER.

- GRAPHIC EQUALIZER
 - 30Hz -15.00dB 15.00dB Adjusts the boost/cut amount around 30Hz.
 - 64Hz -15.00dB 15.00dB Adjusts the boost/cut amount around 64Hz.
 - 125Hz -15.00dB 15.00dB Adjusts the boost/cut amount around 125Hz.
 - 250Hz -15.00dB 15.00dB Adjusts the boost/cut amount around 250Hz.
 - 500Hz -15.00dB 15.00dB Adjusts the boost/cut amount around 500Hz.
 - 1kHz -15.00dB 15.00dB Adjusts the boost/cut amount around 1kHz.
 - 2kHz -15.00dB 15.00dB Adjusts the boost/cut amount around 2kHz.
 - 3kHz -15.00dB 15.00dB Adjusts the boost/cut amount around 3kHz.
 - 5kHz -15.00dB 15.00dB Adjusts the boost/cut amount around 5kHz.
 - 8kHz -15.00dB 15.00dB Adjusts the boost/cut amount around 8kHz.
- CONTOUR LOW PASS -18.00 18.00 Equalizes the low frequency range widely.
- CONTOUR HIGH PASS -18.00 18.00 Equalizes the high frequency range widely.
- MASTER VOLUME 0.00 10.00
 Adjusts the signal level after the process.

Cabinet

Common Parameter

• DISTANCE

0.00-10.00 Reverberates the sound as the cabinet gets farther.

BRIGHT COMBO 2x12

Simulation of the 2x12" Fender TwinReverb '65 cabinet.

JAZZ COMBO 2x12

Simulation of the 2x12" Roland JC-120 cabinet.

MS CRUNCH STACK 4x12

Simulation of the 4x12" Marshall 1960A.

MB DUAL STACK 4x12

Simulation of the 4x12" Mesa/Boogie Recto Standard Armor.

UK30 COMBO 2x12

Simulation of the 2x12" Vox AC30TBX cabinet.

PV STACK 4x12

Simulation of the 4x12" Peavey 5150SL.

B/M COMBO 4x10

Simulation of the 4x10" Fender Bassman cabinet.

HC100 STACK 4x12

Simulation of the 4x12" Hiwatt SE-4123.

TANGERINE STACK 4x12

Simulation of the 4x12" Orange PPC412.

DZ BERT STACK 4x12

Simulation of the 4x12" Diezel V412FD.

DC COMBO 2x12

Simulation of the 2x12" Matchless DC-30 cabinet.

CLASSIC AMP STACK 8x10

Simulation of the 8x10" Ampeg SVT-810E.

B/M100 STACK 4x12

Simulation of the 4x12" Fender Bassman cabinet.

MS SUPER BASS STACK 4x12

Simulation of the 4x12" Marshall 1953A.

AC BASS370 STACK 1x18

Simulation of the 1x18" Acoustic 301.

HRT Stack 4x10

Simulation of the 4x10" Hartke4.5XL.

Mic

Common Parameter

• POSITION L10.00 - C10.00 - R10.00 Adjusts the microphone position.

DYNAMIC57

Simulation of the Shure SM57.

CONDENSER414

Simulation of the AKG C414.

DYNAMIC421

Simulation of the Sennheiser MD421.

CONDENSER87

Simulation of the Neumann U 87.

Comp/Wah

DYNAMIC COMPRESSOR

Simulation of the MXR DynaComp.

• LEVEL	0.00 - 10.00 Adjusts the signal level after the process.
• SENSITIVITY	0.00 - 10.00 Adjusts the compressor sensitivity. Higher setting values result in higher sensitivity.

COMPRESSOR

Compressor with detailed parameters.

THRESHOLD	0.00 - 10.00 Adjusts the reference signal level for the compressor action.
• RATIO	1.00:1 - 20.00:1 Adjusts the compression ratio.
• ATTACK	0.1ms -99.0ms Adjusts the compressor attack speed.
• RELEASE	0.00ms - 999.00ms Adjusts the release response of the compression when the signal comes below threshold.

LIMITER

This is a limiter that suppresses signal peaks above a certain reference level.

THRESHOLD	0.00 - 10.00 Adjusts the reference signal level for the compressor action.
• RATIO	1.00:1 - ∞:1 Adjusts the compression ratio.
• LEVEL	0.00 - 10.00 Adjusts the signal level after the process.

AUTO WAH

This effect varies wah in accordance with picking intensity.

SENSE	0.00 - 10.00	
	Adjusts the effect sensitivity	

• RESONANCE 0.00 - 10.00 Adjusts the intensity of the resonance sound. • LEVEL 0.00 - 10.00 Adjusts the signal level after the process.

RING MODULATOR

This effect produces a metallic ringing sound. Adjusting the "Freq" parameter results in a drastic change of sound character.

FREQUENCY	41.00Hz - 2093.00Hz Adjusts the modulation frequency.
BALANCE	0.00 - 10.00 Adjusts the balance between original sound and effect sound.
• TONE	0.00 - 10.00 Adjusts the tonal quality of the sound.
• LEVEL	0.00 - 10.00 Adjusts the signal level after the process.

PEDAL BOX

Simulation of the Vox vintage wah pedal.

DRY MIX	0.00 - 10.00 Adjusts the level of the original sound mixed to the effect sound.
• LEVEL	0.00 - 10.00 Adjusts the signal level after the process.
PEDAL POS	TION 0.00 - 10.00 Adjusts the frequency that is emphasized. When the expression pedals are not used, the effect is similar to a half open pedal.

PEDAL CRY

Simulation of the Dunlop Cry Baby, the vintage wah pedal.

 DRY MIX 	0.00 - 10.00
	Adjusts the level of the original sound mixed to the effect
	Sound.
LEVEL	0.00 - 10.00

Adjusts the signal level after the process.

• PEDAL POSITION 0.00 - 10.00 Adjusts the frequency that is emphasized. When the expression pedals are not used, the effect is similar to a half open pedal.

Distortion

OVER DRIVEN

Simulation of the Boss OD-1.

• LEVEL	0.00-10.00 Adjusts the signal level after the process.
• DRIVE	0.00-10.00 Adjusts the preamp gain (distortion depth).

TUBE SCREAMEN

Simulation of the Ibanez TS808.

OVERDRIVE	0.00 - 10.00 Adjusts the preamp gain (distortion depth).
• TONE	0.00 - 10.00 Adjusts the tonal quality of the sound.
• LEVEL	0.00 - 10.00 Adjusts the signal level after the process.

THE GOVERNOR

Simulation of the Marshall The Guv'nor.

• GAIN	0.00 - 10.00 Adjusts the preamp gain (distortion depth).
• BASS	0.00 - 10.00 Adjusts boost/cut in the low frequency range.
• MIDDLE	0.00 - 10.00 Adjusts boost/cut in the middle frequency range.
• TREBLE	0.00 - 10.00 Adjusts boost/cut in the high frequency range.
• LEVEL	0.00 - 10.00 Adjusts the signal level after the process.

SQUEAK

Simulation of the Pro Co Rat.

 DISTORTION 	0.00 - 10.00
	Adjusts the preamp gain (distortion depth).

 FILTER
 0.00 - 10.00 Adjusts the tonal quality of the sound.
 VOLUME
 0.00 - 10.00 Adjusts the signal level after the process.

FUZZ SMILE

Simulation of the Dunlop Dallas Arbiter Fuzz Face.

VOLUME	0.00 - 10.00 Adjusts the signal level after the process.
• FUZZ	0.00 - 10.00 Adjusts the preamp gain (distortion depth).

+DISTORTION

Simulation of the MXR Distortion+.

•	OUTPUT	0.00 - 10.00 Adjusts the signal level after the process.
•	DISTORION	0.00 - 10.00 Adjusts the preamp gain (distortion depth).

GREAT MUFF

Simulation of the Electro-Harmonix Big Muff.

VOLUME	0.00 - 10.00 Adjusts the signal level after the process
• TONE	0.00 - 10.00
	Adjusts the tonal quality of the sound.
• SUSTAIN	0.00 - 10.00 Adjusts the preamp gain (distortion depth).

METAL WORLD

Simulation of the Boss Metal Zone MT-2.

• LEVEL	0.00 - 10.00 Adjusts the signal level after the process.
• LOW	-15.00dB - 15.00dB Adjusts boost/cut in the low frequency range.
• HIGH	-15.00dB - 15.00dB Adjusts boost/cut in the high frequency range.
MID FREQUENCY	200.00Hz - 5000.00Hz Selects the target frequency of the MIDDLE parameter.

 MIDDLE 	-15.00dB - 15.00dB
	Adjusts boost/cut in the middle frequency range.
DISTORTION	0.00 - 10.00
	Adjusts the preamp gain (distortion depth).

BOOSTER

This is a booster for increasing signal gain.

• TYPE	BASS BOOST: MID BOOST: TREBLE BOOST: Selects the booste	Boosts the low frequency range. Boosts the middle frequency range. Boosts the high frequency range. er type.
• TONE	0.00 - 10.00 Adjusts the tonal	quality of the sound.
• BOOST	0.00 - 10.00 Adjusts the boost	amount.

ACOUSTIC SIMULATOR

This effect makes an electric guitar sound like an acoustic guitar.

• TOP	0.00 - 10.00 Adjusts the characteristic strings sound of an acoustic guitar.
• BODY	0.00 - 10.00 Adjusts the characteristic body sound of an acoustic guitar.
• LEVEL	0.00 - 10.00 Adjusts the signal level after the process.

Modulation

CHORUS

This effect mixes a variable pitch-shifted component to the original signal, resulting in full-bodied resonating sound.

• DEPTH	0.00 - 10.00 Adjusts the effect depth.
• RATE	0.10Hz - 5.10Hz Adjusts the modulation rate.
• TONE	0.00 - 10.00 Adjusts the tonal quality of the sound.
• MIX	0.00 - 10.00 Adjusts the level of the effect sound mixed to the original

ENSEMBLE

This is a chorus ensemble with three-dimensional movement.

sound.

• DEPTH	0.00 - 10.00 Adjusts the effect depth.
• RATE	0.10Hz - 10.00Hz Adjusts the modulation rate.
• MIX	0.00 - 10.00 Adjusts the level of the effect sound mixed to the original sound.

CHORUS VIBRATO

Simulation of the Boss CE-1.

- LEVEL CONTROL 0.00 10.00 Adjusts the signal level before the process.
- CHORUS INTENSITY 0.00 10.00
 Adjusts the chorus intensity.
- DEPTH (FOR VIBRATO) 0.00 10.00 Adjusts the effect depth.
- RATE (FOR VIBRATO) 2.86Hz 10.82Hz Adjusts the modulation rate.
- VIBRATO CHORUS Chorus/Vibrato
 Switches the effect between chorus and vibrato.

TREMOLO

This effect periodically varies the volume level.

- DEPTH 0.00 10.00 Adjusts the effect depth.
- RATE 0.50Hz 19.50Hz
 Adjusts the modulation rate.

• LFO CLIP 0.00 - 10.00 Emphasises the effect by clipping the peaks.

- WAVE TRAIANGLE (triangle wave) /SAW (saw wave) /RV.SAW (reversed saw wave) Selects the modulation wave from above.
- BPM SYNC ON/OFF
 Synchronizes to BPM in accordance with SYNC PATTERN
 parameter, when turned on.
- SYNC PATTERN See Table 1.
- TAP Sets the modulation rate through the tapping interval.

Table I			
Image	Detail	Image	Detail
m.	Thirty-second note	<u>}</u> :	Dotted eighth note
R	Sixteenth note		Quarter note
• 3	Quarter triplet note		Dotted quarter note
N.	Dotted sixteenth note	• ×2	Quarter note x 2
	Eighth note	:	
03	Half triplet note	• ×20	Quarter note x 20

* For the delay effects, sixteenth note and further is available.

FLANGER

Table 1

This effect produces a resonating and strongly undulating sound.

- DEPTH 0.00-10.00 Adjusts the effect depth.
- RATE 0.04Hz 15.00Hz Adjusts the modulation rate.
- Manual 0.00-10.00
 Adjusts the frequency range on which the effect operates.
- RESONANCE 0.00-10.00
 - Adjusts the resonance intensity.

 INVERT ON/OFF Inverts the polarity of the feedback.
 BPM SYNC ON/OFF Synchronizes to BPM in accordance with SYNC PATTERN parameter, when turned on.
 SYNC PATTERN See table 1 (Appendix-19).
 TAP Sets the modulation rate through the tapping interval.

PHASER

This effect produces a swooshing sound.

• RATE	0.10Hz - 8.50Hz Adjusts the modulation rate.
COLOR	4STAGE/4STAGE INV/8STAGE/8STAGE INV Adjusts the sound color.
BPM SYNC	ON/OFF Synchronizes to BPM in accordance with SYNC PATTERN parameter, when turned on.
SYNC PATTERN	See table 1 (Appendix-19).
• TAP	Sets the modulation rate through the tapping interval.

OCTAVE

This effect mixes the sound 1 and 2 octave below.

• 1 OCT LEVEL	0.00 -10.00 Adjusts the level of the one octave lower sound component.
• 2 OCT LEVEL	0.00 -10.00 Adjusts the level of the two octave lower sound component.
DRY LEVEL	0.00 -10.00 Adjusts the level of the original sound.

CRY

This effect varies the sound like a talking modulator.

• SENSE	0.00 - 10.00 Adjusts the effect sensitivity.
RESONANCE	0.00 - 10.00 Adjusts the resonance intensity.
RANGE	0.00 - 10.00 Adjusts the frequency range processed by the effect.
BALANCE	0.00 - 10.00 Adjusts the balance between original sound and effect sound.

• INVERT ON/OFF

Inverts the envelope.

H.P.S

This is an intelligent pitch shifter that automatically generates harmonies according to a preset key and scale.

• TONE	0.00 - 10.00 Adjusts the tonal quality of the sound.
• MIX	0.00 -10.00 Adjusts the level of the effect sound mixed to the original sound.
• KEY	C, C#, D, D#, E, F, F#, G, G#, A, A#, B Determines the tonic for the scale used for pitch shifting.
TYPE Of Scale	See Table 2 Determines the scale for the pitch shifted sound.

INTERVAL See Table 2

Determines the interval for the pitch shifted sound.

Table 2

Type Of Scale	Interval
	-6
Major	-5
wajoi	-4
	-3
Minor	-3
WITTO	3
	3
Major	4
iviajor	5
	6

PITCH SHIFTER

This effect shifts the pitch up or down.

• SHIFT	-12 - 12/24 Sets the pitch shift amount in semitones.
• FINE	-25cent – 25cent Allows fine adjustment of pitch shift amount in Cent (1/100 semitone) steps.
• TONE	0.00 - 10.00 Adjusts the tonal quality of the sound.

 BALANCE 	0.00 – 10.00
	Adjusts the balance between original sound and effect sound.

MONO PITCH

This is a pitch shifter specifically for monophonic sound (single-note playing), with little sound fluctuation.

• SHIFT	-12 - 12 / 24 Adjusts the pitch shift amount in semitones.
• FINE	-25cent – 25cent Allows fine adjustment of pitch shift amount in Cent (1/100 semitone) steps.
• TONE	0.00 - 10.00 Adjusts the tonal quality of the sound.
BALANCE	0.00 - 10.00 Adjusts the balance between original sound and effect sound.

PEDAL PITCH

This effect allows using a pedal to shift the pitch in real time.

• TONE	0.00 - 10.00 Adjusts the tonal quality of the sound.
COLOR	See Table 1 (Appendix-22) Selects the type of pitch change caused by the pedal.
PEDAL POSITION	0.00 - 10.00 Sets the pitch shift amount. Depending on the "Color" setting, the balance between original sound and effect sound also changes accordingly.

PEDAL MONO PITCH

This is a pitch shifter specifically for monophonic sound (single-note playing), which allows the pitch to be shifted in real time with an expression pedal.

 TONE 	0.00 - 10.00
	Adjusts the tonal quality of the sound.

• COLOR See Table 3 Selects the type of pitch change caused by the pedal.

• PEDAL POSITION 0.00 - 10.00 Sets the pitch shift amount. Depending on the "Color" setting, the balance between original sound and effect sound also changes accordingly.

T - 1		2
Tac	лe	3

MAX	MIN
+1 Octave + Dry	-1 Octave + Dry
+500 Cent + Dry	-700 Cent + Dry
+1 Octave	-∞ + Dry
+1 Octave + Dry	-∞ + Dry
Original Sound Only	-100 Cent
Detune + Dry	Doubling
+1 Octave	0 Cent
-2 Octave	0 Cent

STEP

Special effect that changes the sound in a staircase pattern.

• DEPTH	0.00 - 10.00 Adjusts the modulation depth.
• RATE	0.40Hz - 20.00Hz Adjusts the modulation rate.
RESONANCE	0.00 - 10.00 Adjusts the resonance intensity.
BPM SYNC	ON/OFF Synchronizes to BPM in accordance with SYNC PATTERN parameter, when turned on.
SYNC PATTERN	See table 1 (Appendix-19).
• TAP	Sets the modulation rate through the tapping interval.

VIBRATO

This is an effect with automatic vibrato.

• DEPTH	0.00 - 10.00 Adjusts the effect depth.
• RATE	0.40Hz - 10.00Hz Adjusts the modulation rate.
BALANCE	0.00 - 10.00 Adjusts the balance between original sound and effect sound.
BPM SYNC	ON/OFF Synchronizes to BPM in accordance with SYNC PATTERN parameter, when turned on.
SYNC PATTERN	See table 1 (Appendix-19).
• TAP	Sets the modulation rate through the tapping interval.

Delay/Reverb

DELAY、TAPE ECHO、ANALOG DELAY、REVERSE DELAY Common Parameters

•	TIME	10ms - 5000ms Sets the delay time.	
•	FEEDBACK	0.00 - 10.00 Adjusts the amount of feedback. Higher setting values result in a higher number of delay sound repetitions.	
•	HI-DAMP	0.00 - 10.00 Adjusts the treble attenuation of the delay sound. Lower setting values result in softer delay sound.	
•	MIX	0.00 - 10.00 Adjusts the le sound.	vel of the effect sound mixed to the original
•	MONO/PINGPONG	MONO: PINGPONG: right.	Outputs the delay sound monaurally. Outputs the sound alternately from left and
•	BPM SYNC	ON/OFF Synchronizes parameter, w	to BPM in accordance with SYNC PATTERN hen turned on.
•	SYNC PATTERN	See table 1 (Appendix-19).	
٠	ТАР	Sets the delay	y time through the tapping interval.

DELAY

This is a long delay with a maximum setting of 5000 ms.

TAPE ECHO

This effect simulates a tape echo with a long delay time of up to 5000 ms.

ANALOG DELAY

This effect simulates an analog delay with a long delay time of up to 5000 ms.

REVERSE DELAY

This is a reverse delay with a long delay time of up to 5000 ms.

HALL

This reverb effect simulates the acoustics of a concert hall.

DECAY	0.00 - 10.00 Sets the duration of the reverb.
PRE-DELAY	10.50ms - 90.50ms Adjusts the delay between input of the original sound and start of the reverb sound.
• TONE	0.00 - 10.00 Adjusts the tonal quality of the sound.
• MIX	0.00 - 10.00 Adjusts the level of the effect sound mixed to the original sound.

ROOM

This reverb effect simulates the acoustics of a room.

• DECAY	0.00 - 10.00 Sets the duration of the reverb.
• PRE-DELAY	2.00ms - 50.00ms Adjusts the delay between input of the original sound and start of the reverb sound.
• TONE	0.00 - 10.00 Adjusts the tonal quality of the sound.
• MIX	0.00 - 10.00 Adjusts the level of the effect sound mixed to the original sound.

PLATE

This effect simulates a plate-type reverb.

• DECAY	0.00 - 10.00 Sets the duration of the reverb.
PRE-DELAY	10.50ms - 100.00ms Adjusts the delay between input of the original sound and start of the reverb sound.
• TONE	0.00 - 10.00 Adjusts the tonal quality of the sound.
• MIX	0.00 - 10.00 Adjusts the level of the effect sound mixed to the original sound.

SPRING

This effect simulates a spring-type reverb.

- DECAY 0.00 10.00 Sets the duration of the reverb.
- MIX 0.00 10.00

Adjusts the level of the effect sound mixed to the original sound.
Tools

ZNR

This module serves for reducing noise during playing pauses. It offers a choice between noise reduction and noise gate (muting during pauses).

• THRESHOLD 0.00 - 10.00 Adjusts the ZNR sensitivity. For maximum noise reduction, set the value as high as possible without causing the sound to decay unnaturally.

VOLUME PEDAL

This module lets the volume to be adjusted.

• TYPE	1: Changes the volume lineally.
	2: Changes the volume gradually.
	3: Changes the volume abruptly.
	Selects how the volume changes.
VOLUME	0.00 - 10.00 Adjusts the signal level.

EQ

This module is a 10 band equalizer.

• 31.25Hz	-12.00dB - 12.00dB Adjusts the boost/cut amount around 31.25Hz.
• 62.5Hz	-12.00dB - 12.00dB Adjusts the boost/cut amount around 62.5Hz.
• 125Hz	-12.00dB - 12.00dB Adjusts the boost/cut amount around 125Hz.
• 250Hz	-12.00dB - 12.00dB Adjusts the boost/cut amount around 250Hz.
• 500Hz	-12.00dB - 12.00dB Adjusts the boost/cut amount around 500Hz.
• 1kHz	-12.00dB - 12.00dB Adjusts the boost/cut amount around 1kHz.
• 2kHz	-12.00dB - 12.00dB Adjusts the boost/cut amount around 2kHz.
• 4kHz	-12.00dB - 12.00dB Adjusts the boost/cut amount around 4kHz.
• 8kHz	-12.00dB - 12.00dB Adjusts the boost/cut amount around 8kHz.

 16kHz -12.00dB - 12.00dB Adjusts the boost/cut amount around 16kHz.
 VOLUME -InfdB - 6.02dB Adjusts the signal level after the process.

AMP MODULE

This module is for the addition amplifiers.

SPLITTER

This module splits the input signal into two.

MIXER

This module mixes two input signals.

• LEVEL A	-Inf dB - 6.02dB Adjusts the input A level.
• PAN A	L100 - C0 - R100 Adjusts the input A panning.
• LEVEL B	-Inf dB - 6.02dB Adjusts the input B level.
PAN B	L100 - C0 - R100 Adjusts the input B panning.

ISOLATOR

This module splits the input signal at a certain frequency range.

• FREQUENCY 0.00Hz – 11000.00Hz Adjusts the frequency where the signal gets split.

USB Audio Interface S2t/C5.1t

MIDI IMPLEMENTATION

REVISION HISTORY;

Ver 1.00 20.February,2008 First Issue -

ZOOM Corporation TOKYO, JAPAN

Z4E-0034-A4P

1.Transmitted Messages

1) CHANNEL VOICE MESSAGE

*Control Change

STATUS	SECOND	THIRD	DESCRIPTION		
ВОН	01H	ss	External Foot Switch(S2t)	ss: switch status	(See NOTE 1)
BOH	04H	vv	External Foot Pedal(S2t)	vv: pedal value	(See NOTE 2)
BOH	04H	vv	Expression Pedal(C5.1t)	vv: pedal value	(See NOTE 2)
BOH	06H	SS	Kickdown Switch(C5.1t)	ss: switch status	(See NOTE 1)
BOH	41H	SS	Foot Switch1(C5.1t)	ss: switch status	(See NOTE 1)
BOH	44H	SS	Foot Switch2(C5.1t)	ss: switch status	(See NOTE 1)
BOH	46H	SS	Foot Switch3(C5.1t)	ss: switch status	(See NOTE 1)
BOH	47H	SS	Foot Switch4(C5.1t)	ss: switch status	(See NOTE 1)
BOH	48H	SS	Foot Switch5(C5.1t)	ss: switch status	(See NOTE 1)

NOTE: 1. The 3rd byte of Control Change (ss) will be transmitted as: 7FH Foot Switch is pushed 00H Foot Switch is released
2. The 3rd byte of Control Change (ss) will be transmitted as: 7EH Pedal is raised up

7FH Pedal is raised up 00H Pedal is pushed down Pedal value changes from 00H to 7FH.

MIDI Channel Number is fixed as '1'.

2.Recognized Messages

NONE

3.System Exclusive Messages

NONE

4. Appendix

1). MIDI Implementation Chart

[USB Audio Interface]		Date : 20.Feb. 2008	
Model S2t/C5.1t MIDI Implementation Chart		Version :1.00	
 Function	Transmitted 	Recognized 	Remarks
+ Basic Default Channel Changed	0 x	x x	
+ Default Mode Messages Altered	x x 1	3 x 	
Note	x	x	
Number True voice	x	x	
+			
Velocity Note ON	x		
Note OFF	x		
+ After Key's Touch Ch's	+ x x	x x	+
+	+	+	+
Pitch Bend	x	x	
 Control Change 	1 4 4 6 65 68 70 71 72	X 	External Foot Switch (S2t) Expression/External Foot Pedal (S2t/C5.1t) Pedal Switch(C5.1t) Foot Switch1(C5.1t) Foot Switch2(C5.1t) Foot Switch4(C5.1t) Foot Switch5(C5.1t) Foot Switch5(C5.1t) Foot Switch5(C5.1t)
Prog	x	x	
Change True #	x	x	
System Exclusive	0	0	
Qtr Frame	x	x	
System Song Pos	x	x	
Song Sel	x	x	
Common Tune	x	x	
System Clock	x	x	
Real Time Commands	x	x	
Aux Local ON/OFF	x	x	
All Notes OFF	x	x	
Mes- Active Sense	x	x	
sages Reset	x	x	
+	x	x	
 + Mode 1 : OMNI ON, PO Mode 3 : OMNI OFF, PO	 + LY Mode 2 LY Mode 4	: OMNI ON, MONO : OMNI OFF, MONO	 + o ∶ Yes x ∶ No



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ZEX PLUG-IN SOFTWARE Start-up Guide

Read This First



Thank you for selecting the ZFX Stack package/ZFX Control package. The ZFX Stack package/ZFX Control package includes the ZFX Plug-in which gives access to a wide range of amplifier sounds and effects, with amazingly versatile settings. The ZFX Plug-in can of course be used on its own, but it also works great in combination with the bundled DAW application or other DAW applications that you may own.

This Startup Guide explains the necessary steps for installing the ZFX Plugin on your computer and provides basic information about how to produce sound.

For details regarding operation, please see the PDF Manual.

Do not plug the unit into the computer until prompted to do so!

ZFX Plug-in installation

[Precautions]

- You must have Administrator privileges to install the software. If your user level does not provide this, please contact your system administrator
- Before starting the installation, shut down all other applications.
- When performing the installation, do NOT plug in the USB cable connecting the S2t/C5.1t to the computer before being prompted to do so. • During the S2t/C5.1t driver installation process, you will be prompted to connect the USB cable to the computer. Connect the cable and then do not disconnect it until the installation is completed.
- To start the ZFX Plug-in, .NET Framework 2.0 must be present on the computer. If this is not installed, a prompt will appear to confirm installation of .NET Framework 2.0.

Insert the ZFX Plug-in installation disc into the CD-ROM drive of the computer

The contents of the disc will be displayed automatically.

* If the contents of the disc are not displayed automatically, go to My Computer and open the CD-ROM drive.

Do not connect the USB cable yet!

Double-click on the "ZFX Plug-in Setup.exe" file to start the installation process.

Select setup language



Select the language to use, and click [OK].

* If .NET Framework 2.0 is not installed on the computer, a prompt will appear to confirm installation of .NET Framework 2.0.

Installation wizard start



Click [Next] to begin the installation.

End User License Agreement

The End User License Agreement is displayed. Read the agreement and click [Next] to confirm your acceptance of the agreement.



Warning message

A message telling you not to connect the USB cable yet appears.



Installation target folder

- To accept the default installation target folder, click [Next].
- To select a different folder, click [Change].
- * If you do not want a shortcut to be created on the Desktop, remove the check mark from the box.

■ VST plug-in folder

The installation will use this folder. Click [Next].

Ready to Install the Program



■ Continue with driver installation



* If the driver install wizard window is not visible, click on "ZOOM S2t C5.1t Audio Driver" in the task bar.

ZOOM S2t C5, 1t Audi,...

License Agreement



The License Agreement is displayed. Read the agreement and place a check mark in the "I accept the terms in the License Agreement" box to confirm your acceptance of the agreement. Then click [Next].

Choose Start Menu Folder



destination folder where the shortcut to uninstall/repair the driver will be located. Normally, simply click [Install].



■ Welcome to ZOOM Driver Setup!

COM S /r CS. 11 Audio Drives	
	DOOM (20 CS. In Audo Dover Secur Copying M (c) 2009 Carp., 2009
Information Contracting	
Roll (All in frond) the Steel	nduktim pageni
Pres 16/7 b-overse	
	Contract Contract

A dialog box such as shown above will appear three times. Click [Next] every time to proceed.

If a software installation warning dialog box is shown, click [Continue].

If a Windows Security message indicating that the driver software publisher cannot be verified appears. click [Install this driver].

* In this case, the message "ZOOM S2t C5.1t Audio Driver (Not Responding)" may appear, but this is not a problem.

Please plug in the device now





Connect the USB cable!

When the "PLEASE PLUG IN AUDIO DEVICE NOW" dialog box appears, connect the unit and the computer with the USB cable and click [Next]. After plugging in the USB cable, do not disconnect it until the installation is completed.

When the message "Welcome to the Hardware Update Wizard" (Windows XP) appears, select "Install the software automatically" and click [Next] to complete the process.

When the message "Found New Hardware" (Windows Vista) appears, select "Locate and install driver software" and click [Continue] to complete the process.



ZFX PLUG-IN SOFTWARE Basic Operation Guide

Starting up

Make sure that C5.1t/S2t is connected properly to your computer.

Open the "Start" menu of the Windows, and select the item "ZFX Plug-in" in the folder "Program"-"ZOOM"-"ZFX Plug-in".



ZFX Plug-in starts up as a standalone program.

Configuring the S2t/C5.1t driver

To configure the S2t/C5.1t driver, start up "ZOOM S2t C5.1t Audio" in the Windows control panel.



Adjust the audio latency with the "ASIO Settings" bar to the position where there is no noise.

* The available latency depends on your environments.

Basic Operation



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System Requirements Windows XP(SP2)/Windows Vista

- Pentium4 1.4GHz/Athlon 64 or higher 512MB RAM(1GB or higher suggested) Display resolution 1024x768 or higher USB 1.1 or 2.0 compatible port Supported plug-in format: VST2.4
- * ZFX Plug-in includes stand-alone application.
- * 64bit operating system is not supported.
- * USB hub is not supported.
- * Intel Chipset is recommended.





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ZFX-Startup-E-1.0.0.0

S2t usb audio interface hardware manual



Connections and Functions



CH1 [TUBE] knob

The Hi-Z jack input can be gained through a tube with CH1 [TUBE] knob. CH1 [PEAK] indicator lights on when the signal is too large.

CH1 [SOLIDSTATE] knob

The input signals from Hi-Z and MIC INPUT CH1/L jacks can be gained with CH1 [SOLIDSTATE] knob. CH1 [PEAK] indicator lights on when the signal is too large. With these knobs, you can mix the tube gained sound and the transistor gained sound for the guitar/bass inputs.

CH2 [GAIN] knob

The MIC INPUT CH2/R jack input can be gained with CH2 [GAIN] knob. CH2 [PEAK] indicator lights on when the signal is too large.

[DIRECT MONITOR] knob

The input sounds to Hi-Z, MIC INPUT and other jacks can be sent to OUTPUT L(MONO)/R and PHONES jacks to get

monitored directly. Monitoring volume is adjustable with [DIRECT MONITOR] knob.

[PHONES] knob

Headphone volume can be adjusted with [PHONES] knob.

[OUTPUT] knob

Output volume of the output jacks can be adjusted with [OUTPUT] knob.

INPUT SELECT [Hi-Z/MIC/LINE] switch This switches the available input jacks. When the Hi-Z jack is on use, switch this to "Hi-Z". As well, "MIC" is for MIC INPUT jacks, and "LINE" is for line input jacks.

[MONO/STEREO] switch This switches the direct monitor sound between monaural and stereo.

PHANTOM [ON/OFF] switch To supply the phantom power to a condenser microphone, turn on the PHANTOM [ON/OFF] switch.

Frequency Response Inputs Standard mono phone jack •Hi-z Input MIC Input

Number of Audio Record/

Playback Channels

Audio Sampling

USB

•AUX Input

•LINE INPUT

Record: 1 pair of stereo Playback: 1 pair of stereo 24bit 48kHz/44.1kHz 48 kHz: 20 Hz to 22 kHz (+0 dB/-1 dB) 44.1 kHz: 20 Hz to 20 kHz (+0 dB/-0.5 dB) TypeB USB 1.1 Full Speed

Input impedance: 470 kiloohm Input level: -17dBm to +4dBm XLR/standard phone combo jack x2 (pin 2:HOT, Tip:HOT, Ring:COLD, Sleeve:GND) (Balanced and Unbalanced operation) Input impedance: 1 kiloohm or more Input level: -38dBm to +1dBm Standard mono phone jack(L/R) Input impedance: 47 kiloohm Rated input level: -10dBm Mini phone jack (stereo) Input impedance: 15 kiloohm Rated input level: -10dBm

Phantom powersupply Outputs

Line Output

Headphone

Residual Noise Level

- Control input (S2t only) •FOOT SW CONTROL IN
- Tube circuitry Power requirements
- Current Draw Dimensions

•USB Audio Interface S2t

222mm(W) x145mm(D) x82.5mm(H) •USB Audio Interface C5.1t 390mm(W) x245mm(D) x83mm(H)

Standard mono phone jack (L/R)

Rated output level:-10dBm

Standard phone jack (stereo)

(Input short. At the unity gain.

Output Jack: -96 dBm

IHF-A typ.)

For FS01

12AX7

480mA

For FP02/FP01

USB bus power

Output impedance: 5 kiloohm or less

Connect your guitar/bass to the Hi-Z jack with a monaural shielded cable. To enable the Hi-Z input, turn the INPUT SELECT [Hi-Z/MIC/LINE] switch at the front panel to "Hi-Z' Headphone

be adjusted with [PHONES]knob.

Guitar/Bass

2 Headphone

Keyboard

Soot Switch(ZOOM FS-01) The foot switch ZOOM FS-01 (optional) can be connected to the FOOT SW jack as an external control interface of effect parameters.

 Expression Pedal(ZOOM FP-01/02)
 The foot pedal ZOOM FP-01/02 (optional) can be connected to the CONTROL IN jack as an external control interface of effect parameters.

6 Computer The S2t/C5.1t should be connected to your computer with the USB port.

6 Monitor System Its volume is adjustable through [OUTPUT]knob.

O Dynamic microphone and condenser microphone When connecting microphones, use MIC INPUT CH1/L jack or MIC INPUT

48V



Headphones should be connected to the PHONES jack, and its volume can

The monitor system such as audio components and amplified speakers can be connected to OUTPUT jack.

CH/R jack.

XLR plugs, stereo phone plugs (balanced), and monaural phone plugs (unbalanced) can be connected.

To enable, turn the INPUT SELECT [Hi-Z/MIC/LINE]switch to "MIC". Phantom power might be supplied to the condenser microphones with turning on the PHANTOM [ON/OFF] switch.

8 MTR

MTR can be connected to OUTPUT L(MONO)/R jacks with monaural cables. For the monaural use, choose the OUTPUT L(MONO) jack. Adjust the output volume with the [OUTPUT] knob at front panel.

Rhythm machine

Rhythm machines and CD/MD players can be connected to the AUX IN jack with stereo cables (usually Y-cables). The signal will not be sent to the computer, but directly to OUTPUT L/MONO and OUTPUT R jacks, with no effects.

Keyboard

The instruments with stereo outputs, typically keyboards, should be connected to the line inputs. The L side to LINE INPUT CH1/L jack, and the R side to LINE INPUT CH2/R jack. These inputs will be available when the INPUT SELECT [Hi-Z/MIC/LINE]switch is turned to "I INF"

USB Audio Interface S2t / USB Audio Interface C5.1t : hardware specifications

Weight

•USB Audio Interface S2t 1.1kg •USB Audio Interface C5.1t 3.2kg

*0 dBm = 0.775 Vrms

*Design and specifications subject to change without notice.

Output impedance: 10 ohm Rated output 20mW (32 ohm load)



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ZFX-Hardware-E-1

C5.1t USB AUDIO INTERFACE HARDWARE MANUAL

Controls and indicators of S2t

Connections and Functions





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USB

Inputs

MIC Input

•LINE INPUT

•AUX Input

Input impedance: 470 kiloohm Input level: -17dBm to +4dBm XLR/standard phone combo jack x2 (pin 2:HOT, Tip:HOT, Ring:COLD, Sleeve:GND) (Balanced and Unbalanced operation) Input impedance: 1 kiloohm or more Input level: -38dBm to +1dBm Standard mono phone jack(L/R) Input impedance: 47 kiloohm Rated input level: -10dBm Mini phone jack (stereo) Input impedance: 15 kiloohm

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(optional) can be connected to the FOOT SW jack as an external control interface of effect parameters.

CH/R jack.

XLR plugs, stereo phone plugs (balanced), and monaural phone plugs (unbalanced) can be connected.

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ZFX-Hardware-E-1

USB/Cubase LE 4 Startup Guide

This USB/Cubase LE 4 Startup Guide explains how to install Cubase LE 4 on a computer, make connections and settings for this unit, and perform recording.

Cubase LE 4 installation >



In this example, set the number of tracks to "1" and select stereo, then click the OK button

To create a new audio track, access the "Project" menu and select "Add track". In the submenu that

he Add Track window for specifying the number of audio tracks and





HINT

udio 01

SRU

The Inspector shows information about the currently selected track. If nothing is shown, click on the track to select it.

Inspector (area for making detailed

Select the input/output path for the

track. (The path name assigned to the

this unit in step 6 is shown here.) To

select a different path, click this section

and select a new path from the menu

track settings)

that appears.



Connect the guitar or other instrument to the [INPUT] jack of this unit.

To use the ZOOM ZFX Plug-in for recording, select it for insertion as follows.



If the ZFX Plug-in is not shown

If the ZFX Plug-in does not appear in the list of insert effects, perform the following steps to specify the folder where it is located.

- (1) From the "Devices" menu of Cubase LE 4, select "Plug-in Information" to open the window.
- (2) In the "Plug-in Information" window, click the "VST 2x Plug-in Paths" button.



(3) Click the "Add" button.

VST 2.x Plug-in Paths	- • ×
C:¥Program Files¥Steinberg¥Cubase LE 4¥VSTPlugIns	^
C:¥Program Files¥Steinberg¥Vstplugins	
	~
<	>
Add Remove Set as Shared Folder	Reset
Shared Folder: 0:#Program Files#Steinberg#Vstplugins	
	OK

(4) In the tree display that appears, select the folder where the ZOOM ZFX Plug-in is located (C:\Program Files\Zoom\ZFX) and click the [OK] button.



(5) Restart Cubase LE 4 to enable the change.

HINT

The plug-in effect is inserted in the track output (after recording), not in the track input (before recording). Therefore you can try out various effects without altering the recorded data.

Access the "Devices" menu of Cubase LE 4 and select "Mixer".

The mixer window appears. This window shows the channel assigned to the created track, and the master channel.

Perform the following steps here.



While playing your instrument, adjust the output level of this unit to achieve a suitable recording level for Cubase LE 4.



The recording level for Cubase LE 4 can be checked with the level meter for the channel that is assigned to the recording standby track. Set the level as high as possible without causing the meter to reach the end of the scale.

To adjust the level, do not use the fader of Cubase LE 4. Instead change the recording level and gain settings at this unit.

NOTE

The level meter as in the above illustration shows the signal level after processing in this unit. When you pluck a guitar string the meter may register with a slight delay, but this is not a defect.

Click on the monitoring button to turn it off and use the [DIRECT MONITOR] knob of this unit to adjust the monitoring volume.

This will allow adjustment with less latency than when going through Cubase LE 4.

NOTE

Contrary to the above recommendation, when a plug-in effect is inserted, the monitoring button should be lit in orange and the [DIRECT MONITOR] knob of this unit should be turned down. If the knob is turned up, the sound will have a flanger-like quality.





If the transport panel is not shown, access the "Transport" menu and select "Transport Panel".

To start recording, click the Record button in the transport panel.



Recording starts.

As you play your instrument, the waveform appears in real time in the project window.

To stop recording, click the Stop button in the transport panel.



To play the recording, perform the following steps.



HINT

If no sound is heard when you click the Play button after recording, check the VST connection settings (step 6) once more.

NOTE

To continue using Cubase LE 4, a process called activation (license authentication and product registration) is necessary. When you start Cubase LE 4, a screen offering to register the product will appear. Select "Register Now". A web site for registration will open in your Internet browser. Follow the instructions on that page to register and activate the product.

For optimum enjoyment

While using Cubase LE 4, other applications may slow down drastically or a message such as "Cannot synchronize with USB audio interface" may appear. If this happens frequently, consider taking the following steps to optimize the operation conditions for Cubase LE 4.

(1) Shut down other applications besides Cubase LE 4. In particular, check for resident software and other utilities.

(2) Reduce plug-ins (effects, instruments) used by Cubase LE

When there is a high number of plug-ins, the computer's processing power may not be able to keep up. Reducing the number of tracks for simultaneous playback can also be helpful.

If applications still run very slowly or the computer itself does not function properly, disconnect this unit from the computer and shut down Cubase LE 4. Then reconnect the USB cable and start Cubase LE 4 again.