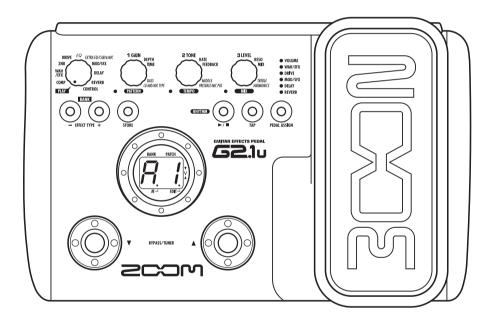
GUITAR EFFECTS PEDAL

G2.1u

Operation Manual





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SAFETY PRECAUTIONS Usage Precautions

SAFETY PRECAUTIONS

In this manual, symbols are used to highlight warnings and cautions for you to read so that accidents can be prevented. The meanings of these symbols are as follows:



This symbol indicates explanations about extremely dangerous matters. If users ignore this symbol and handle the device the wrong way, serious injury or death could result.



This symbol indicates explanations about dangerous matters. If users ignore this symbol and handle the device the wrong way, bodily injury and damage to the equipment could result.

Please observe the following safety tips and precautions to ensure hazard-free use of the G2.1u.



Power requirements

Since power consumption of this unit is fairly high, we recommend the use of an AC adapter whenever possible. When powering the unit from batteries, use only alkaline types.

[AC adapter operation]

- Be sure to use only an AC adapter which supplies 9 V DC, 300 mA and is equipped with a "center minus" plug (Zoom AD-0006). The use of an adapter other than the specified type may damage the unit and pose a safety hazard.
- Connect the AC adapter only to an AC outlet that supplies the rated voltage required by the adapter.
- When disconnecting the AC adapter from the AC outlet, always grasp the adapter itself and do not pull at the cable.
- During lightning or when not using the unit for an extended period, disconnect the AC adapter from the AC outlet.

[Battery operation]

- Use four conventional IEC R6 (size AA) batteries
 (alkaline)
- . The G2.1u cannot be used for recharging.
- Pay close attention to the labelling of the battery to make sure you choose the correct type.
- When not using the unit for an extended period, remove the batteries from the unit.
- If battery leakage has occurred, wipe the battery compartment and the battery terminals carefully to remove all remnants of battery fluid.
- While using the unit, the battery compartment cover should be closed.



Environment

To prevent the risk of fire, electric shock or malfunction, avoid using your G2.1u in environments where it will be exposed to:

- · Extreme temperatures
- · Heat sources such as radiators or stoves

- · High humidity or moisture
- · Excessive dust or sand
- · Excessive vibration or shock

Mauring

Handlin

- Never place objects filled with liquids, such as vases, on the G2.1u since this can cause electric shock.
- Do not place naked flame sources, such as lighted candles, on the G2.1u since this can cause fire.
- The G2.1u is a precision instrument. Do not exert undue pressure on the keys and other controls. Also take care not to drop the unit, and do not subject it to shock or excessive pressure.
- Take care that no foreign objects (coins or pins etc.) or liquids can enter the unit.



Connecting cables and input and output jacks

You should always turn off the power to the G2.1u and all other equipment before connecting or disconnecting any cables. Also make sure to disconnect all connection cables and the power cord before moving the G2.1u.



Alterations

Never open the case of the G2.1u or attempt to modify the product in any way since this can result in damage to the unit.



Volume

Do not use the G2.1u at a loud volume for a long time since this can cause hearing impairment.

Usage Precautions

Electrical interference

For safety considerations, the G2.1u has been designed to provide maximum protection against the emission of electromagnetic radiation from inside the device, and protection from external interference. However, equipment that is very susceptible to interference or that emiss powerful electromagnetic waves should not be placed near the G2.1u, as the possibility of interference cannot be ruled out entirely.

With any type of digital control device, the G2.1u included, electromagnetic interference can cause malfunctioning and can corrupt or destroy data. Care should be taken to minimize the risk of damage.

Cleaning

Use a soft, dry cloth to clean the G2.1u. If necessary, slightly moisten the cloth. Do not use abrasive cleanser, wax, or solvents (such as paint thinner or cleaning alcohol), since these may dull the finish or damage the surface.

Please keep this manual in a convenient place for future reference.

ZOOM G2.1u

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The FCC regulation warning (for U.S.A.)

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

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

ZOOM G2.1u

Features

Thank you for selecting the ZOOM G2.1u (hereafter simply called the "G2.1u"). The G2.1u is a multi effect processor with the following features and functions.

Latest processing technology for outstanding performance

96 kHz / 24 bit sampling (with 32 bit internal processing) assures excellent sound quality. Frequency response remains flat up to 40 kHz, and input-converted signal-to-noise ratio is an amazing 120 dB, demonstrating the high level of performance achieved by the G2.1u. The G2.1u also has a USB connection and can be used as a direct guitar/computer interface.

Versatile palette of effects including new creations

Out of a total of 54 effects, up to nine (including ZNR) can be used simultaneously. The high-quality choices provided by the G2.1u include distortion effects that simulate the tones of famous amps and effects pedals, 6-band guitar EQ and delay effects with "hold" controloperated by foot switch.

Great for live performances and direct recording

The distortion effect module provides two different algorithms for each of its 17 effect types, one for live performance and one for direct recording. Depending on the on/off setting of the CABINET & MIC effect which simulates amp cabinet sound and mic characteristics, the most suitable algorithm is automatically selected, giving you the best sound for any application.

Integrated rhythm functions and auto-chromatic tuner

A number of rhythm patterns using realistic PCM drum sounds are provided. This is convenient for use as a metronome during individual practice or to provide a simple rhythm part for a quick session. An auto-chromatic tuner for guitar is also built right into the unit, allowing you to easily tune your instrument also at home or on stage.

Sophisticated user interface

The combination of a rotary type selector and three parameter knobs make the effect editing process intuitive and quick. The mute interval when switching patches has been reduced to less than 5 milliseconds. Seamless patch changing is now a reality.

Dual power supply principle allows use anywhere

The G2.1u can be powered from four IEC R6 (size AA) batteries or an AC adapter. Continuous operating time on batteries is approximately 7.5 hours with alkaline batteries.

Easy operation with expression pedal and foot switch

The expression pedal on the top panel lets you adjust the tonal quality of an effect or the volume in real time.

An optional expression pedal (FP01/FP02) or foot switch (FS01) can be connected to the CONTROL IN jack. The external expression pedal is used for controlling the volume. The foot switch is convenient for quickly toggling effect programs or for setting the tempo of the rhythm function.

Please take the time to read this manual carefully so as to get the most out of the unit and to ensure optimum performance and reliability.

Terms Used in This Manual

This section explains some important terms that are used throughout the G2.1u documentation.

IN -> COMP-(WAH/EFX)-(ZNR)-(DRIVE)-(EQ)-(EXTRA EQ/CABI&MIC)-(MOD/SFX)-(DELAY)-(REVERB)-> OUT

■ Effect module

As shown in the illustration above, the G2.1u can be thought of as a combination of several single effects. Each such effect is referred to as an effect module. In addition to modules comprising compressor effects (COMP), amp simulator/distortion effects (DRIVE), and modulation/special effects (MOD/SFX), the G2.1u also provides a module for ZNR (ZOOM Noise Reduction). Parameters such as effect intensity can be adjusted for each module individually, and modules can be switched on and off as desired.

■ Effect type

Within some effect modules, there are several different effects which are referred to as effect types. For example, the modulation/SFX effect module (MOD/SFX) comprises chorus, flanger, pitch shifter, delay, and other effect types. Only one of these can be selected at a time.

■ Effect parameter

All effect modules have various parameters that can be adjusted. These are called effect parameters. In the G2.1u, effect parameters are adjusted with the parameter knobs $1\,-\,3$. Similar to the knobs on a compact effect, these change aspects such as tonal

parameter knobs 1-3. Similar to the knobs on a compact effect, these change aspects such as tonal character and effect intensity. Which parameter is assigned to each knob depends on the currently selected effect module and effect type.

■ Patch

In the G2.1u, effect module combinations are stored and called up in units referred to as patches. A patch comprises information about the on/off status of each effect module, about the effect type used in each module, and about effect parameter settings. The internal memory of the G2.1u holds up to 80 patches (including 40 patches which allow read/write).

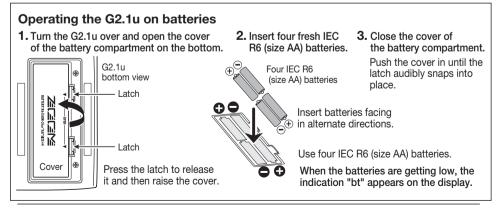
■ Bank and area

A group of ten patches is called a bank. The memory of the G2.1u comprises a total of eight banks, labelled A to d and 0 to 3. Banks A-d form the user area which allows read/write. Banks 0 to 3 are the preset area containing read-only patches.

The patches within each bank are numbered 0 through 9. To specify a patch of the G2.1u, you use the format "A1" (patch number 1 from bank A), "06" (patch number 6 from bank 0), etc.

■ Play mode/edit mode

The internal status of the G2.1u is referred to as the operation mode. The two major modes are "play mode" in which you can select patches and use them for playing your instrument, and "edit mode" in which you can modify the effects. The module selector serves for switching between the play mode and edit mode.



Controls and Functions / Connections

Guitar

Guitar amplifiers

<u> 00000</u>

Rear Panel

 \odot

Module selector

Switches between play mode and edit mode. In edit mode, the knob selects the module for operation.

BANK [-]/[+] keys

In play mode, the keys serve for directly switching to the next lower or higher bank. In edit mode, the keys switch the effect type for the currently selected module.

[STORE] key

Serves for storing edited patches in memory.

[▼]/[▲] foot switches

These switches are used for selecting patches, switching effect modules on and off, controlling the tuner, and other functions.

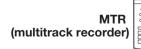
Computer

[USB] connector

Allows you to connect the G2.1u. to a computer, for exchanging audio data. When you plug a cable from this connector into the USB port of the computer, you can use the G2.1u. as an audio interface for the computer.

[OUTPUT/PHONES] jack

This stereo phone jack serves for connection to a guitar amplifier or recorder. It is also possible to use a Y cable for sending the output to two amplifiers, or to plug a pair of stereo headphones into this jack.



Parameter knobs 1 - 3 **Top Panel**

Headphones

(0) PEDAL ASSIGN

210

These knobs allow changing the level of effect parameters or of the overall patch. During rhythm playback, the knobs let you select a pattern, set the tempo, and adjust the rhythm volume.

[PEDAL ASSIGN] key

This key lets you select the function of the built-in expression pedal. The currently selected function is shown by a lit LED.

ITAP1 kev

Allows manual input of time related effect parameter values such as delay time, and rhythm pattern tempo.

RHYTHM [►/■] key

Serves to start/stop rhythm playback.

Display

Shows patch numbers, setting values, and other information about operating the G2.1u.

Expression pedal

Lets you adjust the volume or various effect parameters in real time during play.

[INPUT] jack

AC adapter

Serves for connecting the guitar.

[DC IN] jack

An AC adapter (ZOOM AD-0006) with a rated output of 9 volts DC, 300 mA (center minus plug) can be plugged into this jack.

[POWER] switch

Turns the unit on and off.

FS01

[CONTROL IN] iack

Serves for connection of the optional foot switch (FS01) or expression pedal (FP01/FP02).



CONTROL IN

Selecting a Patch

To try out the various effects of the G2.1u, we recommend that you simply play your instrument while switching patches.

1 Turn power on

- Use a monaural shielded cable to connect the guitar to the [INPUT] iack of the G2.1u.
- When using the G2.1u with the AC adapter, plug the adapter into the outlet and plug the cable from the adapter into the IDC INI iack on the G2.1u.
- Set the IPOWERI switch on the rear panel of the G2.1u to ON.
- Turn the guitar amplifier on and adjust the volume to a suitable position.

Set the G2.1u to play mode

 If the Module selector is set to a position other than "PLAY", set it to "PLAY".

The bank and patch that were selected when the power was last turned off will appear on the display.



HINT Immediately after turning the G2.1u on, the unit will be in play mode, even if the Module selector is set to a position other than "PLAY".

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Adjust tone and volume

• To adjust the effect sound and volume levels in play mode, the Parameter knobs 1 - 3 can be used. Each knob controls a specific parameter.

Parameter knob 1

Adjusts the GAIN parameter of the DRIVE module (mainly distortion depth).

Parameter knob 3

Adjusts the PATCH LEVEL parameter (output level of the entire patch).



Parameter knob 2

Adjusts the TONE parameter of the DRIVE module (mainly distortion sound character).

When you turn a Parameter knob, the corresponding LED lights up and the display briefly shows the current value of the respective parameter.

NOTE

- If the DRIVE module is set to OFF for the currently selected module (display shows "oF"). Parameter knobs 1 and 2 have no effect.
- Changes made here are temporary and will be lost when you select another patch. To retain the changes, store the patch in the user area.
- The master level in common to all patches is set in edit mode (\rightarrow p. 34).

Select a patch

To switch the patch, press one of the [▼]/[▲] foot switches.

Pressing the [▼] foot switch calls up the next lower patch, and pressing the [▲] foot switch calls up the next higher patch.

Repeatedly pressing one foot switch cycles through patches in the order $A0 - A9 \dots d0 - d9$ $\rightarrow 00 - 09 \dots 30 - 39 \rightarrow A0$, or the reverse order.

4 Directly selecting a bank

• To select the banks A - d, 0 - 3 directly, use the BANK [-]/[+] keys.

Pressing the BANK [-] key calls up the next lower bank, and pressing the BANK [+] key calls up the next higher bank.

Using the Tuner

The G2.1u incorporates an auto-chromatic tuner. To use the tuner function, the built-in effects must be bypassed (temporarily turned off) or muted (original sound and effect sound turned off).

Switch to bypass or mute

Setting the G2.1u to the bypass
 In play mode, press both [▼]/[▲] foot switches together briefly and release.



• Setting the G2.1u to the mute state

In play mode, press both

|▼1/[▲] foot

In play mode, press both $[\nabla]/[\triangle]$ foot switches together and hold for at least 1 second.



Patch change at bypass/mute

When you press both [▼]/[▲] foot switches together while playing your instrument, the bypass/mute condition is activated. However, the sound may change momentarily just before the condition is activated. This is because the G2.1u switches to the next higher or lower patch when one of the foot switches is pressed slightly earlier. (When you cancel the bypass/mute condition, the original patch number will be active again.)

This kind of behavior is not a defect. It is due to the very high speed at which the G2.1u responds to patch switching. To prevent the sound change caused by the above condition, do not produce sound with your instrument until the bypass/mute condition is fully established.

The left side of the display shows the

note which is closest to the current pitch.

3 Adjusting the reference pitch of the tuner

If required, you can fine-adjust the reference pitch of the G2.1u tuner. The default setting after power-on is center A = 440 Hz.

• Turn Parameter knob 1.

The current reference pitch is shown. The adjustment range is 35 - 45 (center A = 435 to 445 Hz).



 While the reference pitch value is shown, turn Parameter knob 1 to adjust it.



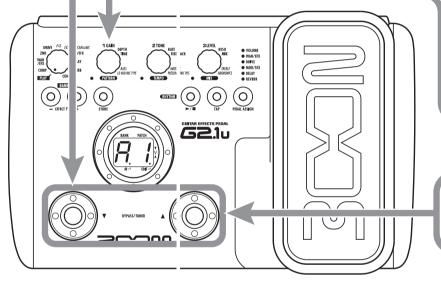
When you release the Parameter knob, the display indication will return to the previous condition after a while.

NOTE

When you turn the G2.1u off and on again, the reference pitch setting will be reset to 40 (center A = 440 Hz).



 Press one of the [▼]/[▲] foot switches.



Play the string to tune

 Play the open string to tune, and adjust the pitch.



A = A = B = C = C = C $A^{\#} = A = C = C = C = C$ B = C = C = C C = C = C $C^{\#} = C = C$

The right side of the display shows a symbol that indicates by how much the tuning is off.



Pitch is high

Pitch is correct Pitch is low



Tune other strings in the same way.

Indication turns faster the more the pitch is off

Using the Rhythm Function

The G2.1u has a built-in rhythm function that plays realistic drum sounds in various patterns. The rhythm function is available in play mode or in the bypass/mute condition.

Set the G2.1u to play mode

 If the Module selector is set to a position other than "PLAY". set it to "PLAY".

Start the rhythm function

 To start the rhythm function, press the RHYTHM [►/■] key.

NOTE During rhythm playback, the REVERB module is OFF.

Select a rhythm pattern

The G2.1u has 40 built-in rhythm patterns. For more information on the pattern contents, see the back cover of this manual.

- To continuously switch rhythm patterns, turn Parameter knob 1.
- To select the next higher or next lower rhythm pattern, press one of the BANK [-]/[+] keys.

When the above steps are carried out, the current rhythm pattern number (01 - 40) is briefly shown on the display.

4 Adjust the rhythm volume

 To adjust the rhythm volume, turn Parameter knob 3.



When you turn the Parameter knob, the current setting (0-30) is shown on the display.

Adjust the tempo

The rhythm pattern tempo can be adjusted in the range of 40 - 250 BPM (beats per minute).

- To continuously change the rhythm tempo, turn Parameter knob 2.
- To manually specify the rhythm tempo, hit the [TAP] key at least three times in the desired interval.

At the first push of the [TAP] key, the current tempo value is shown on the display. The G2.1u then automatically detects the interval for the second and subsequent keypresses and sets the tempo accordingly.

While the above steps are carried out, the current tempo value (40 - 250) is shown on the display. For values in the range from 100 to 199, a dot is shown after the first digit. For values of 200 and above, dots are shown after the first and second digits.





Dots are shown

Tempo = 120 BPM

Tempo =240 BPM

Stop the rhythm

To stop the rhythm, press the RHYTHM [►/■] key.

Dot is show

The G2.1u returns to the previous condition.

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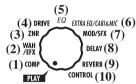
2.1u

Editing a Patch

The patches of the G2.1u can be freely edited by changing the effect parameter settings. Try editing the currently selected patch to create your own sound.

Select the effect module

 Turn the Module selector to select the effect module to edit. The following settings are available.



- (1) COMP module
- (2) WAH/EFX module
- (3) ZNR module
- (4) DRIVE module
- (5) EO module
- (6) EXTRA EO/CABI&MIC module
- (7) MOD/SFX module
- (8) DELAY module
- (9) REVERB module
- (10) Pedal/foot switch related parameters

When you switch to a different module, the effect type currently selected for that module is shown on the display. While the G2.1u is in edit mode, a dot appears in the bottom right of the display.



☐ Terminate the edit mode

• To terminate the edit mode and return to the play mode, set the Module selector to the "PLAY" position.

NOTF When you return to play mode and select another patch, the changes you have made in edit mode will be lost unless you store the patch first. To retain the changes, store the patch as described on page 16.

Change the parameter

• To change the setting value of effect parameters, use the Parameter knobs 1 - 3.

Which parameter is assigned to a knob depends on which effect module/effect type is selected. For information on parameters for effect modules/effect types, see page 27 - 34.

When you turn a Parameter knob, the corresponding LED lights up and the display briefly shows the current value of the respective parameter.





NOTE When a module that is set to OFF is selected, the display will show "oF".

To switch an effect module on and off

• To switch the selected module between ON and OFF, press one of the $[\mathbf{V}] / [\mathbf{A}]$ foot switches.

The indication "oF" appears on the display. When you press one of the foot switches again, the indication returns to the previous condition.



Select the effect type

• To switch the effect type of the selected module, use the BANK [-]/[+] keys.



If you press the BANK [-]/[+] keys for a module that is set to OFF, the module will be turned ON.

For modules that have only one effect type, pressing the BANK [-]/[+] keys has no effect.

-

GUITAR EFFECTS I PEDAL

Storing/Copying Patches

An edited patch can be stored in a bank of the user area (A - d). It is also possible to store an existing patch in another location to create a copy.

- In play mode or edit mode, press the [STORE] key.
- The bank and patch number are shown on the display as a flashing indication.

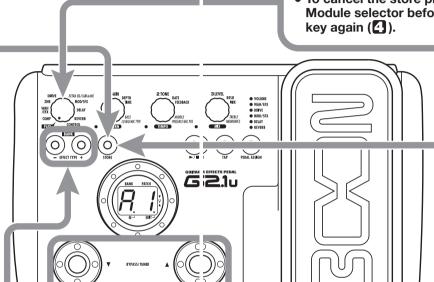


NOTE Patches of banks in the preset area (0 -3) are read-only. No patches can be stored or copied into these locations. If you press the [STORE] key while a patch from the preset area is selected, the patch "A0" (bank A, patch number 0) will be selected automatically as default store/copy target.

- Select the store/copy target bank
- To select the store/copy target bank, use the BANK [-]/[+] keys.



NOTE Only a bank of the user area (A – d) can be selected as store/copy target bank.



- **5** To cancel the store process
- To cancel the store process, operate the Module selector before pressing the [STORE]
 - Press the [STORE] key once more
 - When the store/copy process is completed, the G2.1u returns to the previous mode, with the target patch being selected.



- Specify the store/copy target patch number
- To specify the store/copy target patch number, use the $\lceil \nabla \rceil / \lceil \Delta \rceil$ foot switches.



Using the Built-in Expression Pedal

The expression pedal on the top panel of the G2.1u lets you adjust the effect sound or the volume in real time during play. Which element is controlled by the pedal can be selected for each patch individually.

- Select the patch for which the expression pedal is to be used
- Select the element to be controlled by the expression pedal
- Press the [PEDAL ASSIGN] key to select the element to be controlled by the expression pedal. The row of LEDs above the key shows which element is currently selected.
 - VOLUME
 - WAH/EFX
 - O DRIVE
 - O MOD/SFX
 - O DELAY
 - **REVERB**

The respective selection is indicated as follows.

All LEDs are out

The expression pedal has no effect.

VOLUME

The expression pedal controls the volume for the entire patch.

• WAH/EFX, DRIVE, MOD/SFX, DELAY, REVERB

The expression pedal controls a parameter from the respective module.

- **HINT** Which parameter will be changed by the expression pedal depends on the effect type selected for the respective module. For details, see pages 27 - 33.
 - The pattern in which the parameter changes when the expression pedal is operated can be selected in edit mode from four choices. For details, see page 34.
 - If the module to which the expression pedal was assigned is set to OFF in the patch, the LED flashes. In this case, operating the expression pedal has no effect.

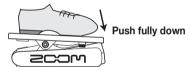
Operate the pedal

 While playing your instrument, move the expression pedal up or down.

Move up or down



 When you push the expression pedal fully down, the module selected with the [PEDAL ASSIGN] key is switched on or off.





Store the patch as necessary

• The expression pedal setting can be stored for each patch individually.

NOTE

If you select another patch in play mode without storing the patch, any changes that you have made to the settings will be lost.

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Use of Expression Pedal/Foot Switch

The G2.1u lets you use the built-in expression pedal or an external expression pedal (FP01/FP02) connected to the [CONTROL IN] jack to adjust the effect sound or the volume in real time during play. Connecting an optional foot switch (FS01) to the [CONTROL IN] jack allows changing patches or setting the tempo for the rhythm function.

Using the built-in expression pedal

The built-in expression pedal on the top panel of the G2.1u can function as a volume pedal or it can be used to control an effect parameter in real time. Which function is selected for the expression pedal is stored for each patch individually. For details on parameters that can be modified with the expression pedal, see pages 27 – 33.

- Select the patch for which you want to use the expression pedal.
- 2. Set the Module selector to the "CONTROL" position.



The G2.1u goes into edit mode.

- Turn Parameter knob 1 to select one of the following modulation targets for the expression pedal (→ p. 34).
- oF
 Pedal is inactive.
- VL Volume
- WU, Wd, WH, WL
 WAH/EFX module

GU, Gd, GH, GL
 DRIVE module

- MU, Md, MH, ML
 MOD/SFX module
- dU, dd, dH, dL
 DELAY module
- rU, rd, rH, rL REVERB module

HINT

- The modulation target can also be selected by using the [PEDAL ASSIGN] key (→ p. 18). This method is available both in edit mode and in play mode
- Which parameter changes when the expression pedal is operated depends on the effect type selected for the module. For details, see pages 27 – 33.
- The pattern in which the parameter changes when the expression pedal is operated can be selected in edit mode from four choices. For details, see page 34.

4. If necessary, store the patch.

The expression pedal setting is stored as part of the patch.

5. Select the patch in play mode and operate the expression pedal.

The selected function will be activated. When the G2.1u is in the bypass condition, the expression pedal always functions as a volume pedal, regardless of the setting made in step 3.

Adjusting the sensitivity of the built-in expression pedal

The expression pedal of the G2.1u is adjusted for optimum operation at the factory, but sometimes, readjustment may be necessary. If the sound does not change when the pedal is fully pushed down, or if it changes excessively even if the pedal is only lightly pushed, adjust the pedal as follows.

 Turn power to the G2.1u on while keeping the [PEDAL ASSIGN] key depressed.

The indication "dn" appears on the display.

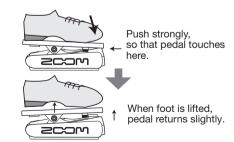


With the expression pedal fully raised, press the [STORE] key.



The display indication changes to "UP".

3. Push the expression pedal fully down and then lift your foot off the pedal.



4. Press the [STORE] key once more.

The expression pedal adjustment is completed, and the unit returns to the play mode.

HINT

- The point where the module is switched on or off when the pedal is depressed is always the same, regardless of the action taken in step 3.
- If "Er" appears on the display, repeat the procedure from step 2.

Using an external expression pedal (FP01/FP02)

When you connect an optional expression pedal (FP01/FP02) to the [CONTROL IN] jack of the G2.1u, you can use that pedal as a volume pedal, separately from the built-in expression pedal.

- Plug the cable from the external expression pedal into the [CONTROL IN] jack, and then turn the G2.1u on.
- 2. Operate the external expression pedal in play mode or edit mode.

The volume changes.

HINT

The external expression pedal always functions as a volume pedal.

Using a foot switch (FS01)

Connecting an optional foot switch (FS01) to the [CONTROL IN] jack of the G2.1u allows bank switching in play mode. It is also possible to switch bypass/mute on and off, control the tap tempo function, or perform other functions with the foot switch

 Plug the cable from the FS01 into the [CONTROL IN] jack, and then turn the G2.1u on.

2. Set the Module selector to the "CONTROL" position.



The G2.1u goes into edit mode. You can now make settings for the expression pedal or foot switch.

Turn Parameter knob 2 to select one of the following functions for the foot switch.

bP (bypass/mute)

The foot switch controls bypass or mute on/off. This has the same effect as pressing both $[\nabla] / [\triangle]$ foot switches at the same time in play mode.

• tP (tap tempo)

Pressing the foot switch repeatedly can be used to set the interval for the rhythm function or to make settings for effect parameters supporting the tap function. This has the same effect as pressing the [TAP] key.

bU (bank up)

Each push of the foot switch switches to the next higher bank. This has the same effect as pressing the BANK [+] key.

• rH (rhythm on/off)

The foot switch controls start/stop of the rhythm function. This has the same effect as

pressing the RHYTHM [►/■] key.

dH (delay hold)

The foot switch controls on/off of the delay hold function. When a patch using the hold function is selected, pressing the foot switch will activate hold, causing the current delay sound to be repeated (see illustration at the bottom of this page). Pressing the foot switch once more cancels the hold condition, and the delay sound will decay normally.

dM (delay input mute)

The foot switch controls muting on/off for the delay module input signal.

HINT

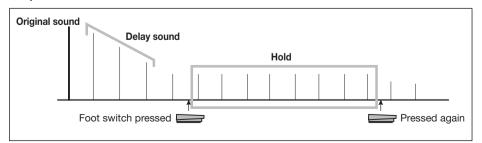
- For information on effect parameters supporting the tap function, see pages 27 33.
- To use the hold function, an effect type that supports the hold function must be selected in the patch. For details, see page 34.
- While the delay module is set to hold or mute, the dot in the center of the display flashes.

4. Select the patch in play mode and operate the foot switch.

The selected function will be activated. This function applies to all patches.

Using the G2.1u as audio interface for a computer

By connecting the [USB] connector of the G2.1u to a computer, the G2.1u can be used as an audio interface with integrated AD/DA converter and



effects. The operating environment conditions for this type of use are as follows.

■ Compatible operating system

- Windows XP
- MacOS X (10.2 or later)

■ Quantization

16-bit quantization

■ Sampling frequency

32 kHz / 44.1 kHz / 48 kHz

HINT

With each of the operating systems listed above, the G2.1u will function as an audio interface simply by connecting the USB cable. There is no need to install any special driver software.

To use the G2.1u as an audio interface for the computer, connect the [USB] connector of the G2.1u to a USB port on the computer. The G2.1u will be recognized as an audio interface.

HINT

- If the [POWER] switch of the G2.1u is set to OFF, power will be supplied via the USB connection.
- If the [POWER] switch of the G2.1u is set to ON, power will be supplied from the batteries in the G2.1u or the AC adapter. Care should be taken especially when running on battery power, because setting the switch to ON may result in faster depletion of the batteries.

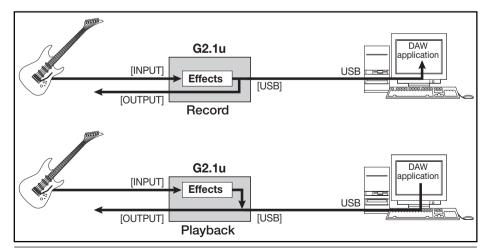
In this condition, the sound of a guitar connected to the [INPUT] jack of the G2.1u can be processed with the effects of the G2.1u and then recorded on the audio tracks of a DAW (Digital Audio Workstation) software application on the computer.

At the same time, the [OUTPUT] jack of the G2.1u carries the playback sound from the audio tracks of the DAW application, mixed with the guitar sound processed by the effects of the G2.1u.

For details on recording and playback, refer to the documentation of the DAW application.

NOTE

- Also when using the G2.1u as an audio interface, the signal after effect processing is always available directly at the [OUTPUT] jack.
- If the DAW application has an echo back function (input signal during recording is supplied directly to an output), this must be disabled when using the G2.1u. If recording is carried out with this function enabled, the output signal will sound as if processed by a flanger effect.
- Use a high-quality USB cable and keep the connection as short as possible. If power is supplied to the G2.1u via a USB cable that is more than 3 meters in length, the low voltage warning indication may appear.



Restoring Factory Defaults

In the factory default condition, the patches of the user area (A0 - d9) contain the same settings as the patches of the preset area (00 - 39). Even after overwriting the user patches, their original content can be restored in a single operation ("All Initialize" function).

1. Turn the G2.1u on while holding down the [STORE] key.

The indication "AL" appears on the display.



2. To carry out the All Initialize function, press the [STORE] key once more.

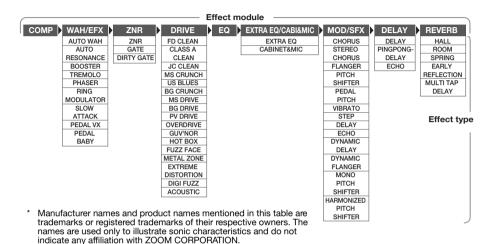
All patch settings are returned to the factory default condition, and the unit switches to play mode. To cancel All Initialize, press the RHYTHM [> / |] key instead of the [STORE] key.

NOTE

When you carry out All Initialize, any newly created patches that were stored in the user area will be deleted (overwritten). Perform this operation with care to prevent losing any patches that you want to keep.

Linking Effects

The patches of the G2.1u consist of nine serially linked effect modules, as shown in the illustration below. You can use all effect modules together or selectively use certain modules by setting them to on or off.



For some effect modules, you can select an effect type from several possible choices. For example, the MOD/SFX module comprises CHORUS, FLANGER, and other effect types. The REVERB module comprises HALL, ROOM, and other effect types from which you can choose one.

Switching between live sound and direct recording sound

In the above illustration, the DRIVE module is shown as having 17 effect types. But each effect type has two algorithms (one for live performance and one for direct recording) for each of its 17 effect types, so that there are actually 34 effect types that can be used.

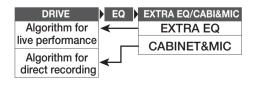
The two algorithms are switched according to the effect type selected for the EXTRA EQ/CABI & MIC module, as follows.

• EXTRA EQ is selected

The algorithm for live performance is selected at the DRIVE module. This is recommended when using the G2.1u for playing via a guitar amplifier.

CABINET & MIC is selected

The algorithm for direct recording is selected at the DRIVE module. This is recommended when the G2.1u is directly connected to a recorder, or to a hifi system or other audio device.

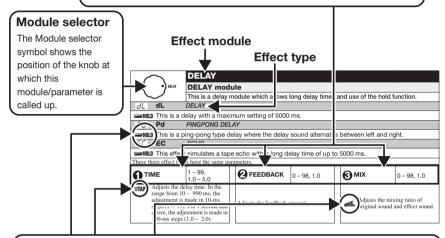


Effect Types and Parameters

How to read the parameter table

Effect parameters 1 - 3

These are the parameters that can be adjusted with Parameter knobs 1 – 3 when the effect type is selected. The setting range for each parameter is shown. Three-digit setting values are shown with a dot between the two numerals. Example: 1 - 98, 1.0 = 1 - 98, 100



Expression pedal

A pedal icon () in the listing indicates a parameter that can be controlled with the expression pedal (FP01/FP02).

Specify the respective module as modulation target for the expression pedal (→ p. 20), and then select the respective effect type of the module. The parameter can then be controlled in real time with a connected expression pedal.

Tap

A [TAP] key icon (OTAP) in the listing indicates a parameter that can be set by hitting the [TAP]

In edit mode, when the respective module/effect type is selected, repeatedly hitting the ITAP1 key will set the parameter according to the key press interval (modulation cycle, delay time, etc.). In play mode, if the DELAY module is ON for the currently selected patch, repeatedly hitting the [TAP] key will temporarily change the parameter.

Hold

A foot switch icon () in the listing indicates an effect type for which hold can be turned on and off with the foot switch (FS01).

Set the foot switch function to "dH" (delay hold) (→ p. 22) for the respective patch. When this patch is then selected in play mode, the hold function can be switched on and off by pressing the foot switch.

COMP

COMP (Compressor) module

Attenuates high-level signal components and boosts low-level signal components, thereby keeping the overall signal level within a certain range.

SENSE

sensitivity.

ATTACK

Selects compressor attack speed in two levels. Available settings are "FS" (fast) and "SL" (slow).

R LEVEL 2 - 98.1.0

Adjusts the signal level after passing the



WAH/EFX

WAH/EFX (Wah/Effects) module

Comprises wah and filter effects as well as VCA type effects.

ЯΗ **AUTO WAH**

Adjusts the compressor sensitivity.

Higher setting values result in higher

This effect varies wah in accordance with playing intensity.

AUTO RESONANCE

This effect varies the frequency band of the resonance filter according to the picking intensity.

The two effect types above have the same parameters.

POSITION bF. AF

Selects the connection position of the WAH/EFX module. Available settings are "bF" (before DRIVE module) and "AF" (after EQ/EXTRA EQ module). **SENSE** 10 - -1, 1 - 10

Adjusts the effect sensitivity.

RESONANCE | 0 - 10

Adjusts the resonance of the sound.

5 bs **BOOSTER**

Raises signal gain and creates a dynamic sound.

RANGE

boosted.

M TONE 0 - 10

Adjusts the sound quality.

(C) LEVEL 2 - 98.1.0

Adjusts the signal level after passing the module.

/- tr **TREMOLO**

Selects the frequency band that is

This effect periodically varies the volume.

♠ DEPTH

0 – 98, 1.0

RATE

0 - 50

WAVE

u0 - u9, d0 d9. t0 - t9

1 – 4

Allows selection of the modulation waveform. Available settings are "u" (rising sawtooth), "d" (falling sawtooth), and "t" (triangular). Higher setting values result in more clipping of wave peaks, which reinforces the effect.

PH PH PHASER

Adjusts the modulation depth.

This effect produces sound with a pulsating character.

POSITION bF. AF

Selects the connection position of the

RATE 0 - 50

■ ⊙TAP Adjusts the effect rate.

Adjusts the type of sound.

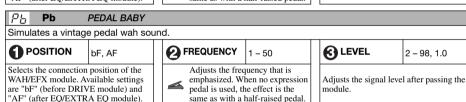
(C) COLOR

WAH/EFX module. Available settings are "bF" (before DRIVE module) and "AF" (after EQ/EXTRA EQ module).

ຸ rG RING MODULATOR This effect produces a metallic ringing sound. Adjusting the FREQUENCY parameter results in a drastic change of sound character. POSITION FREQUENCY ← MIX bF. AF 0 – 98. 1.0 Selects the connection position of the Adjusts the frequency that is used for modulation. WAH/EFX module. Available settings Adjusts the level of the effect sound are "bF" (before DRIVE module) and mixed to the original sound. "AF" (after EQ/EXTRA EQ module).

5L SL	SLOW ATTACK						
This effect reduces the attack rate of the sound, resulting in a violin playing style sound.							
POSITION	bF, AF	2 TIME	1 – 50	3 CURVE	0 – 10		
Selects the connection WAH/EFX module. A are "bF" (before DRIV "AF" (after EQ/EXTR	vailable settings /E module) and	Adjusts the attac	k time.	Adjusts the attack vol	ume change curve		
Pu PV	PEDAL VX						

μ _υ PV	PEDAL VX				
Simulates a	vintage pedal wah so	und.			
POSITI	ON bF, AF	2 FREQUENCY	1 – 50	⊗ LEVEL	2 – 98, 1.0
WAH/EFX me are "bF" (befo	nnection position of the odule. Available settings are DRIVE module) and Q/EXTRA EQ module).	pedal is used, the	hen no expression	Adjusts the signal module.	l level after passing the





ZNR

ZNR (ZOOM Noise Reduction) module

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

nr ZNR (ZOOM Noise Reduction)

ZOOM original noise reduction which reduces noise in playing pauses without affecting the overall tone.

Fil- Gt GATE

This is a noise gate which cuts off the sound during playing pauses.

dG DIRTY GATE

This is a vintage type gate with special closing characteristics.

All above effect types have the same parameters.

1 THRESHOLD

Adjusts the sensitivity. For maximum noise reduction, set the value as high as possible without causing the sound to decay unnaturally.

_ D

DRIVE

DRIVE module

This module provides 16 types of distortion and an acoustic simulator. Each effect type of the module has two modeling algorithms (for live performance and direct recording). These algorithms are switched automatically according to the on/off condition of the CABINET & MIC effect (\rightarrow p. 25).

		CABINET & MIC	effect (→ p. 25).				
FE	FC	FD CLEAN		[R	CA	CLASS A CLE	AN
	The rich, clean sound of a classic 1965 Fender Twin Reverb			1	sound of ting in Cla	the Vox AC-30 co ass-A	ombo amp,
JE	JC	JC CLEAN		ПЕ	МС	MS CRUNCH	
Clean sound of Roland JC series with built-in chorus which gives a wide, clear tone.				und of a and crun	Marshall stack rur	nning between	
Ы	bL	US BLUES		60	bC	BG CRUNCH	
Crunc	ch sound of	a Fender Tweed D	eluxe '53	Fat so	und of th	e Mesa Boogie M	kIII combo amp
Ωď	Md	MS DRIVE		60	bG	BG DRIVE	
The H		und of a Marshall	JCM2000-driven			d of Mesa Boogie age mode).	Dual Rectifier amp
ρ_{u}	PV	PV DRIVE		od	Od	OVERDRIVE	
	nigh gain sc	ound of the classic	Peavey 5150	Simulation of the classic Boss OD-1 overdrive pedal			D-1 overdrive
ני	GV	GUV'NOR distor	tion	НЬ	Hb	HOT BOX	
Simul Marsh		Guv'nor distortion	effect from	Simula amp.	ation of th	ne drive channel o	f a Hot Box tube
FF	FF	FUZZ FACE		ПЕ	Mt	METAL ZONE	
Simul	ation of the	original classic Br	itish fuzz pedal			ne classic Boss M g sustain and midr	
Ев	Ed	EXTREME DISTO	ORTION	dF	dF	DIGI FUZZ (dig	gital fuzz)
Inten	se super-hi	gh gain distortion		High gain fuzz attack			
All abo	ove effect type	es have the same para	meters.				
O G	AIN	0 – 98, 1.0	2 TONE	0 – 10		3 LEVEL	2 – 98, 1.0
	Adjusts the di	stortion intensity.	Adjusts the sound qua	Adjusts the signal level after passing the module.			level after passing the

^{*}Manufacturer names and product names mentioned in this table are trademarks or registered trademarks of their respective owners. The names are used only to illustrate sonic characteristics and do not indicate any affiliation with ZOOM CORPORATION.

Adjusts the special string tone that is characteristic for an acoustic guitar. Adjusts the degree of body resonance. Adjusts the signal level after passing the module.

1 – 10



EQ

EQ (Equalizer) module

Allows adjusting the three main bands (BASS, MIDDLE, TREBLE) of the six-band equalizer.

BASS

±12 160Hz

MIDDLE

(C) TREBLE ±12 800Hz

Adjusts the modulation depth +12 3.2kHz

Adjusts the low frequency range level.

Adjusts the mid frequency range level.

Adjusts the high frequency range level.



EXTRA EQ/CABI&MIC

EXTRA EQ/CABINET & MIC module

This module allows adjusting the three remaining bands of the six-band equalizer. In addition, the module contains a cabinet simulator that produces sound suitable for direct recording on a MTR or for reproduction via headphones or a studio monitor.

Et **Et** EXTRA EQ

Adjusts the three remaining bands of the six-band equalizer. The HARMONICS control allows adjustment of the harmonics frequency range level.

♠ LO MID

level.

±12 400Hz

PRESENCE ±12 6.4kHz HARMONICS ±12 12kHz

range level.

Adjusts the extremely high frequency Adjusts the harmonics frequency range

CABINET & MIC [b Cb

Selects the mic type. "dy" simulates the

frequency response of a dynamic mic

and "Co" simulates the frequency

response of a condenser mic.

Adjusts the mid-low frequency range

This effect type simulates amplifier cabinet sound and mic directional characteristics, suitable for direct recording on a multi-track recorder. The cabinet characteristics are automatically set either to Combo (12" x 1, 12" x 2) or to Stack (12" x 4), depending on the selected drive type. The on/off condition of this effect in turn automatically switches the modeling algorithm of the DRIVE module (→ p. 25).

MIC TYPE

dy, Co

MIC POSITION 0-2

Lets you select different microphone characteristics according to sound pickup position. The following settings are available.

- 0: Mic pointed at speaker center
- 1: Mic pointed halfway between speaker edge and center
- 2: Mic pointed at speaker edge



MOD/SFX

MOD/SFX(Modulation/SFX) module

Comprises modulation and delay effects such as chorus, pitch shifter, delay, and echo.

ſΗ CH

CHORUS

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

♠ DEPTH

0 – 98. 1.0

RATE 1 – 50 Adjusts the modulation rate. (C) MIX

(S) MIX

0 – 98, 1.0

0 - 98, 1.0

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

Adjusts the modulation depth 551 SC STEREO CHORUS

This is a stereo chorus with clear sound.

♠ DEPTH

0 – 98, 1.0

RATE 1 – 50 Adjusts the modulation rate.

Adjusts the level of the effect

Adjusts the modulation depth

sound mixed to the original

FL FI **FLANGER**

This effect produces a resonating and strongly undulating sound.

♠ DEPTH

0 - 98. 1.0

RATE

■ ⊙TAP Adjusts the modulation rate

RESONANCE -10 --1, 0,

Adjusts the modulation resonance intensity

PE Pt PITCH SHIFTER

This effect shifts the pitch of the original sound up or down.

12 - -1. dt. ♠ SHIFT 1 - 12, 24

Adjusts the pitch shift amount in semitones. Selecting "dt" gives a detuning effect.

TONE 0 - 10

← MIX

0 - 98.1.0

Adjusts the sound quality.

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

PP PEDAL PITCH

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

♠ COLOR See Table 1 Selects the type pitch change type

MODE UP. dn

Selects the direction of the pitch change.

(C) TONE 0 - 10

Adjusts the sound quality.

Table 1

effected by the pedal.

COLOR	MODE	Pedal minimum value	Pedal maximum value	COLOR	MODE	Pedal minimum value	Pedal maximum value
	UP	-100 cent	Original sound only	_	UP	-1 octave + DRY	+1 octave + DRY
1	dn	Original sound only	-100 cent	5	dn	+1 octave + DRY	-1 octave + DRY
	UP	DOUBLING	Detune + DRY		UP	-700 cent + DRY	500 cent + DRY
2	dn	Detune + DRY	DOUBLING	6	dn	500 cent + DRY	-700 cent + DRY
	UP	0 cent	+1 octave	_	UP	-∞ (0 Hz) + DRY	+1 octave
3	dn	+1 octave	0 cent	/	dn	+1 octave	-∞ (0 Hz) + DRY
	UP	0 cent	-2 octaves		UP	-∞ (0 Hz) + DRY	+1 octave + DRY
4	dn	-2 octaves	0 cent	8	dn	+1 octave + DRY	-∞ (0 Hz) + DRY

υБ Vb **VIBRATO** Effect with automatic vibrato.

♠ DEPTH 0 - 98.1.0 RATE 0 - 50 MIX

intensity

0 - 98.1.0Adjusts the level of the effect sound

■ TAP Adjusts the modulation rate Adjusts the modulation depth.

51 St STEP

Special effect that changes the sound in a staircase pattern.

♠ DEPTH

0 - 98, 1.0

RATE ■ ⊙TAP Adjusts the modulation rate RESONANCE 0 - 10 Adjusts the modulation resonance

mixed to the original sound.

dL DELAY

Adjusts the modulation depth

This is a delay with a maximum setting of 2000 ms.

TIME

1.0 - 2.0

Adjusts the delay time. In the range from 10 - 990 ms, the adjustment is made in 10-ms steps (1 - 99). For 1 second and above, the adjustment is made in 100-ms steps (1.0 - 2.0).

P FEEDBACK

0 - 98, 1.0

(C) MIX 0 - 98, 1.0

Adjusts the feedback amount.

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

30 ZOOM G2.1u

31 ZOOM G2.1u

TAPE ECHO EE tΕ

This effect simulates a tape echo.

TIME

1 - 991.0 - 2.0

Adjusts the delay time. In the range from 10 - 990 ms, the adjustment is made in 10-ms steps (1 - 99). For 1 second and above, the adjustment is made in 100-ms steps (1.0 - 2.0).

P FEEDBACK 0 - 98 1 0

Adjusts the feedback amount.

MIX

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

0 - 98.1.0

dd dd DYNAMIC DELAY

This is a dynamic delay where the effect volume changes depending on the input signal level. With positive settings, the effect volume increases at higher input signal levels. With negative settings, the effect volume increases at lower input signal levels.

TIME

1 – 99. 1.0 - 2.0

● Adjusts the delay time. In the range from 10 - 990 ms, the adjustment is made in 10-ms steps (1 – 99). For 1 second and above, the adjustment is made in 100-ms steps (1.0 - 2.0).

AMOUNT

0 – 10

SENSE -10 – -1. 1 – 10

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

Adjusts the effect sensitivity.

dЕ dF DYNAMIC FLANGER

This is a dynamic flanger where the effect volume changes depending on the input signal level. With positive settings, the effect volume increases at higher input signal levels. With negative settings, the effect volume increases at lower input signal levels.

♠ DEPTH 0 - 98.1.0Adjusts the modulation depth.

RATE

M TONE

0 - 50

SENSE

-10 – -1, 1 – 10

Adjusts the modulation rate. Adjusts the effect sensitivity.

DP MP MONO PITCH SHIFTER

This is a monophonic pitch shifter with low sound modulation, suitable for single-note playing.

SHIFT

-12 - -1. dt. 1 - 12, 24

0 - 10

MIX

0 - 98. 1.0

Adjusts the pitch shift amount in semitones. Selecting "dt" gives a detuning effect.

Adjusts the sound quality.

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

нΡ HARMONIZED PITCH SHIFTER

-6, -5, -4, -3,

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

■ SCALE

Table 2

2 KEY

C, Co, d...b

(C) MIX

0 - 98, 1.0Adjusts the level of the effect sound

-m, m, 3, 4, 5, 6 Determines the interval for the pitch shifted sound (see Table 2).

Determines the tonic for the scale used for pitch shifting (see Table

mixed to the original sound.

5).	III
	Table 3

I abio L					
Setting	Type of scale	Interval	Setting	Type of scale	Interval
-6		Sixth down 3	Third up		
-5	Major scale	Fifth down	4	Major scale	Fourth up
-4		Fourth down	5		Fifth up
-3		Third down	6		Sixth up
-m	Minor scale	Third down			
m		Third up			

Setting	Tonic	Setting	Tonic
С	C	Fo	F#
Co	C#	G	G
d	D	Go	G#
do	D#	Α	A
Е	Е	Ao	A#
F	F	b	В



DELAY

DELAY module

This is a delay module which allows long delay times and use of the hold function.

DELAY

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

Pd PINGPONG DELAY

■HOLD This is a ping-pong type delay where the delay sound alternates between left and right.

EC

HOLD This is a warm sounding long delay of up to 5000 ms duration.

These three effect types have the same parameters.

TIME

- 99. 10 - 50

TAP Adjusts the delay time. In the range from 10 – 990 ms, the adjustment is made in 10-ms steps (1 - 99). For 1 second and above, the adjustment is made in 100-ms steps (1.0 - 5.0).

FEEDBACK

Adjusts the feedback amount.

0 - 98.1.0

0 - 98.1.0

MIX

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



REVERB

REVERB module

This module comprises various reverb functions such as hall reverb, early reflection, and multi-tap delay.

HIHL HALL

This reverb simulates the acoustics of a concert hall

-17 ROOM

This reverb simulates the acoustics of a room.

SPI SP **SPRING**

Adjusts the duration of the reverb.

Adjusts the duration of the reverb.

This effect simulates a spring-type reverb.

The above three effect types have the same parameters.

DECAY

1 – 30

P TONE 0 - 10Adjusts the sound quality.

← MIX

0 - 98. 1.0

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

Er **EARLY REFLECTION**

This effect isolates only the early reflection components of the reverb.

■ DECAY

1 – 30

SHAPE

decay-type envelope.

PATTERN

Adjusts the envelope of the effect sound. In the negative range, the envelope is reversed. At 0, the effect is a gate reverb. In the positive range, the envelope is a

1 – 8

MIX 0 - 98.1.0

Adjusts the mixing ratio of original sound and effect sound.

 ΩA Md MULTI TAP DELAY

adjustment is made in 10-ms

steps (1 - 99). For 1 second and

above, the adjustment is made in 100-ms steps (1.0 - 3.0).

This effect produces several delay components with different delay times.

TIME

ZOOM G2.1u

1.0 - 3.0

TAP Adjusts the delay time. In the range from 10 - 990 ms, the

Selects the combination pattern for the taps. The selection ranges from rhythmical to random patterns.

MIX (S)

0 - 98, 1.0

Adjusts the mixing ratio of original sound and effect sound.

32 ZOOM G2.1u



CONTROL

CONTROL module

Serves for making pedal settings and lets you control the foot switch function and master level setting applying to all patches.

See Table 5



RTM DESTINATION | See Table 4

When an expression pedal (FP01/FP02) is connected to the [CONTROL IN] iack, this selects the modulation target module for the RTM function (See Table

2 F	5
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When a foot switch (FS01) is connected to the [CONTROL IN] jack, this selects the function that can be operated with the foot switch (See Table 5). The function selected here applies to all patches.



Adjusts the master level for all patches.

Table 4

Setting	Modulation target
oF	OFF
VL	Volume
WU, Wd, WH, WL	WAH/EFX module (*)
GU, Gd, GH, GL	DRIVE module (*)
MU, Md, MH, ML	MOD/SFX module (*)
dU, dd, dH, dL	DELAY module (*)
rU, rd, rH, rL	REVERB module (*)

Table 5

Setting	Function
bP	Bypass/Mute
tP	Tap tempo
bU	Bank up
rH	Rhythm function on/off
dH	Delay hold
dM	Delay mute

The operation of modules denoted by (*) changes as follows, according to the letter at right.



The parameter is at minimum when the pedal is fully raised and at maximum when the pedal is fully pushed down.

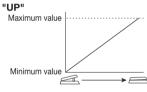


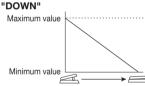
The parameter is at maximum when the pedal is fully raised and at minimum when the pedal is fully pushed down.

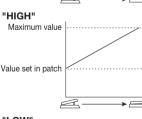
Н HIGH

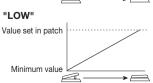
When the pedal is fully raised, the parameter is at the value set in the patch. When the pedal is fully pushed down, the parameter is at maximum.

When the pedal is fully raised, the parameter is at minimum. When the pedal is fully pushed down, the parameter is at the value set in the patch.









LOW

Specifications

Effect types

Effect modules Max. 9 simultaneous modules **Patches** User area: 10 patches x 4 banks

Preset area: 10 patches x 4 banks

Sampling frequency 96 kHz

A/D converter 24 bit, 64 times oversampling D/A converter 24 bit, 128 times oversampling

Signal processing 32 bit

Frequency response 20 Hz - 40 kHz +1 dB -3 dB (with 10 kilohms load)

Display 2-digit 7-segment LED

Parameter LEDs, Pedal assign LEDs

Input Standard mono phone jack

Rated input level -20 dBm Input impedance 1 megohm

Output Standard stereo phone jack (doubles as line and headphone jack)

Maximum output level Line: +5 dBm (output load impedance 10 kilohms or more)

Phones: 20 mW + 20 mW (into 32 ohms load)

Control input For FP02/FS01

USB interface

PC interface: 16-bit (stereo configuration for recording/playback)

Sampling frequency: 44.1 kHz, 48 kHz

Power requirements

AC adapter VDC, 300 mA (center minus plug) (ZOOM AD-0006) **Batteries** Four IEC R6 (size AA) batteries,

Approx. 7.5 hours continuous operation (alkaline batteries)

Dimensions 165 mm (D) x 255 mm (W) x 79mm (H)

Weight 1100 g (without batteries)

Options Expression pedal FP02/ Foot switch FS01

- 0 dBm = 0.775 Vrms
- · Design and specifications subject to change without notice.

Troubleshooting

No power

Refer to "Turn power on" on page 8.

Reverb effect does not operate

While a rhythm pattern is playing, the reverb effect is not available. Stop the rhythm pattern first $(\rightarrow p. 12)$.

High level of noise

Is ZOOM AC adapter being used? Be sure to use only adapter for 9 V DC, 300 mA with center minus plug (ZOOM AD-0006).

Battery life is short

Are manganese batteries being used? The use of alkaline batteries is recommended.

G2.1u Preset Pattern

#	PatternName	TimSig	П	#	PatternName	TimSig
1	8beat_1	4/4	1 1	21	POP_3	4/4
2	8beat_2	4/4	1 1	22	DANCE_1	4/4
3	8beat_3	4/4	1	23	DANCE_2	4/4
4	8shufle	4/4	1 [24	DANCE_3	4/4
5	16beat_1	4/4	1 [25	DANCE_4	4/4
6	16beat_2	4/4	1 [26	3per4	3/4
7	16shufle	4/4	1 [27	6per8	3/4
8	ROCK	4/4		28	5per4_1	5/4
9	HARD	4/4		29	5per4_2	5/4
10	METAL_1	4/4		30	LATIN	4/4
11	METAL_2	4/4		31	BALLAD_1	4/4
12	THRASH	4/4		32	BALLAD_2	3/4
13	PUNK	4/4		33	BLUES_1	4/4
14	DnB	4/4		34	BLUES_2	3/4
15	FUNK_1	4/4		35	JAZZ_1	4/4
16	FUNK_2	4/4		36	JAZZ_2	3/4
17	НІРНОР	4/4		37	METRO_3	3/4
18	R'nR	4/4		38	METRO_4	4/4
19	POP_1	4/4		39	METRO_5	5/4
20	POP_2	4/4		40	METRO	



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Web Site: http://www.zoom.co.jp

G2.1u Patch List Please use patches "for Live" when you use guitar amp, and use patches "for Recording" when you connect your guitar directly to a recorder.

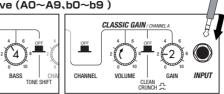
Name of patches		T	
for Live for Reco		Key effect	Pedal setting
RECTIFYING	This patch is modeled after the powerful sound which uses the silicone rectifier section of that popular amplifier. You may want to play riffs and solos with this sound valued by heavy rock guitarists. Referenced album: "Hybrid Theory" by Linkin Park (2001)	BG DRIVE	VOLUME
LUSH LIFE A I [This sound features the high-quality sound of our G2's signal processing technology with a clean and lush chorus plus delay patch. Try to use it for accompaniments in pop music, or solo music with your favorite guitar.	CHORUS	VOLUME
The Pie	We have already started to call the sound of this UK rock band "traditional". This patch is modeled after the punchy sound of the overdriven JCM 800 amplifier and thus it is suitable also for the hard plucking of modern punk rock guitar style. This is the sound of Humble Pie in later years with Dave Clemson as its guitar player. Referenced album: "Smokin'" by Humble Pie (1972)	MS CRUNCH	DRIVE GAIN
SynthDaze	We took advantage of a newly developed fast tracking pitch shift algorithm and created this simulated synthesizer sound. We hope you will come up with great solos using this sound reminiscent of Jan Hammer's exciting trades with Jeff Beck. Referenced album: "Wired" by Jeff Beck (1976)	METAL ZONE	WAH FREQ
FENDER CLEAN	This patch is a straightforward modeling of the sound of that black-face Fender Twin Reverb and provides a clean sound that is indispensable for the ensemble. When you foot down the expression pedal and with the EFX module switched on, you can add a unique tremolo effect to get that retro-sound instantly. We have selected a room ambience as default to make this patch suitable for current musical style but, of course, you can replace it with the spring reverb simulation.	FENDER CLEAN	TREMOLO RATE
SANTANA RS CS	Many people through the years have favored Carlos Santana's guitar sound. This patch is modeled specifically after his wailing lead sound with sweet distortion. Any of his hits like "Black Magic Woman", "Europe" or "Adouma" will sound pleasant if you make use of this patch. Referenced album: "Amigos" (1976) and "Shaman" (2002) by Santana		WAH FREQ
FUNK PLANET II	This patch is suitable for funky chording, and using the pedal-wah effect. We have arranged a clean sound which can be used for not only funk music but also any music style. You can create a funky groove by using brushing or single note cutting.	PHASER	WAH FREQ
NUANCE DRIVE	This patch is the simulation of the legendary tone of the BOSS OD-1 that is considered the de-facto standard for the overdrive stomp box. The patch can provide high playability and retains the nuances of the guitarists' touches. The addition of the chorus effect using expression pedal will enable the guitar players to adapt to virtually any musical situation.		ST CHORUS MIX
C MAJOR HARMONY	This patch provides a mild lead sound accompanied by the harmonies based on the C major scale and makes our G2 the world's first effective device in the class that features the HPS (harmonized pitch shifter) function. You can select the key and the scale according to the phrase you play.		HPS MIX
ACOUSTIK	With this patch selected, your electric guitar will start to sound like an acoustic electric guitar. You can use rich chorus sound when you foot down the expression pedal. We would recommend you to combine this patch with the single-coil type front pick-up. You can also use this patch actively to create the clean ensemble effect.	ACOUSTIC SIM	ST CHORUS MIX
POWERED BY	Even if you are the type of guitar player who is proud of wailing solos, you may sometimes want to use thrash power chords (with some muting-technique on the bridge). The distorted sound of this patch provides the best playability for that purpose. Referenced album: "Dookie" by Green Day (1994)	PV DRIVE	VOLUME
BREATH YOU TAKE	This patch provides you with a clean sound with effective use of the compressor. Also with the delay effect set to synchronize with the 8th notes, you will get Andy Summers' signature sound for arpeggios. You can control delay mix by expression pedal. Referenced album: "Synchronicity" by the Police (1983)		DELAY MIX
Mr. Fripp	This wildly fat sound with infinite sustain is modeled truthfully after the sound created by the combination of MXR's Dyna Comp and Dallas' Fuzz Face. Designed for using your guitar's front pick-up. Referenced album: "In The Court Of The Crimson King" by King Crimson (1969)	FUZZ FACE	DRIVE GAIN
ORANGE CRUSH	This patch provides the jet sound from the good old days created by the combination of the edgy vintage distortion stomp box and the flanger. We have rearranged that sound to give a hybrid tone that is retro sounding and refreshing at the same time by combining the dry distortion, flanging jet-effect and lush reverb. Referenced album: "Barracuda" by Heart (1972)		FLANGER RATE
AC CLEAN	This patch is modeled after the classical Brit clean sound of the VOX AC series guitar amps operated in the class A without the negative feedback. The sound of those amps became enormously popular in the British musical industry of the 1960s, continued through many famous British groups in the 1970s and has remained popular to this day. Referenced album: "1962-1966Red Album" by the Beatles	CLASS A CLEAN	VOLUME
BIG WALL	This powerful sound is the result of the deepest distortion ever created by any multi-effect pedals. The overwhelming presence of the power chords in lower registers and the smooth responses to the tapping technique will be favored by the connoisseurs of the high-gain sound. In addition, you can create a pedal pitch effect that bends down 2 octaves.	BG DRIVE	PEDAL PITCH 2oct DOWN
VibroCrunch 55 d8	This patch is modeled after the sound that utilizes the so-called Leslie effect for its vibrato-like character and it is popular among the American blues-rock players like the late S.R.V. It is suitable for crisp rhythm playing or the dynamic chording. Referenced album: "Texas Flood" by Stevie Ray Vaughan (1983)		VIBRATO RATE
1984 67 dr	Recently E.V.H. is known as the user of the 5150 amps but in the past he used to create that big crunchy sound with his specially modified Marshall amp. This patch is the consummate simulation of that E.V.H. sound from his early years. The name of this patch is, of course, borrowed from that greatest album of V. H. with David Lee Roth. When you foot down the expression pedal and get the long delay effect on, it makes the best lead sound. Referenced album: "1984" by Van Halen (1984)		DELAY(OFF) MIX
The SPY who loved me (or Spagetti	The sound will remind you of the soundtracks of the James Bond series or Spaghetti Western movies. Referenced album: The soundtracks from "007, Dr. No" (1962)	FENDER CLEAN	SPRING MIX
HEAD LONG	This sound is ZOOM'S original that became a favorite of the guitarist Brian May. The patch has a very strong character but you can hear how it is effectively used in his actual recordings. If you are big-fan of Brian May, you may also want to try the sound with the "step" turned "off" and the "delay" turned "on". You will be transported to the world of "Brighton Rock" with that incredible guitar orchestration. With the additional use of the HPS set to the minor 3rd in the key of E, you will be able to perfect the simulation!! Referenced album: "Innuendo" by Queen (1991)	STEP	STEP RATE

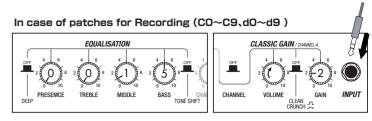
 $Note \ 1: The \ default \ patches \ stored \ in \ the \ pre-set \ area \ from \ the \ bank \ No. \ 0 \ to \ No. \ 3 \ are \ the \ same \ as \ those \ stored \ in \ the \ banks \ from \ A \ to \ d.$

Note 2: We recommend you to adjust the parameter for the noise reduction according to your guitars and amps

Setting recommendation on popular guitar amps

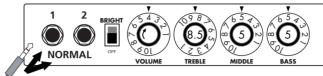
Marshall JCM-2000 In case of patches for Live (AO~A9,bO~b9) EQUALISATION CLASSIC GAIN / CHANGE A

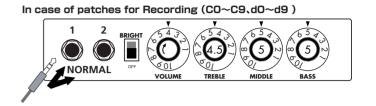




Fender TWIN Reverb

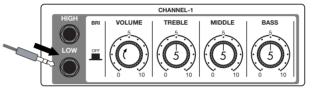
In case of patches for Live (A0 \sim A9,b0 \sim b9)

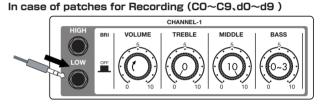




Roland JC-120

In case of patches for Live (AO~A9,bO~b9)





When you use guitar amp for recording patches, not only intended modeling sound will not existing, but also you hear harsh-sounding sometimes. Please adjust guitar amp setting as above reference.

Introduction for newly developed effects

Early Reflection

Early Reflection is the component of the reverb sound that reaches to the listener first after the original sound has bounced off the wall. The reverb sound consists of this early reflection and the late reflection, and the former characterizes the size of the room. The early reflection effect extracted from the whole reverb sound has been quite popular among the rack-mounted signal processors but we have arranged this effect on the G series especially for the guitar. To get the most popular type of this effect, you can set the "SHAPE" parameter to the plus value (decaying effect) and adjust the "DECAY" parameter to decide the size of the simulated room. If you would like a wild effect, set the "SHAPE" parameter to the extreme minus value and you will get the special effect that sounds like the tape machine played in reverse.

EXTRA EQ

In addition to the frequency ranges of 160Hz, 800Hz and 3.2kHz (LOW, MID and TREBLE respectively,) controlled by the normal EQ module, you can boost or cut the ranges of 400Hz, 6.4kHz and 12kHz using the LOW MID, PRESENCE and HARMONICS controls respectively in the EXTRA EQ module. These frequency ranges are rarely controllable with other effect devices made for guitars. With "PRESENCE" you can adjust the high frequency range that affects the projection of the sound and with "HARMONICS" you can tweak the overtone contained in the clipped sound. The overdriven sound of tube amplifiers is rich in overtone and this EXTRA EQ module is indispensable for the simulation of this aspect of the sound.

Multi Tap Delay

With this effect, you can utilize up to eight independent delay lines whose delay times can be set separately to make rhythmical patterns. We also provided eight practical settings ranging from the constant rhythmic pattern to the random one. Try pattern 2 for example: the played notes are fed back like rhythmical patterns that will inspire you to come up with various phrases one after another. You could apply this effect to your solo performances as something different from the sound-on-sound effect. This effect is programmed as a stereo ping-pong delay and thus we strongly recommend you to try it using headphones. The delay time can be set to 3 sec. maximum.

Dynamic Delay/Dynamic Flanger

This is the so-called ducking effect: the mix balance of the dry signal and the effect signal of a delay or a flanger is controlled by the envelope of the original signal of the quitar.

In the Dynamic Delay section, you can set the "SENSE" parameter to the minus value to get the ducking delay effect: the feedback component in the delayed signal is not put out while there is an input signal and the feedback component arises as soon as the input signal is muted. This effect is very handy when, for example, you play fast phrases on the guitar and the feedback component gets in the way. On the other hand, you can set the "SENSE" parameter to the plus value and you will have the feedback component while you are playing the guitar and you can cut off the feedback as soon as you mute the guitar, which should be very handy in the break of a song where you want to mute all of the sound.

The same thing goes with the "Dynamic Flanger": you can set the "SENSE" parameter to the minus value and you will get no flanging effect while the input signal is high and you will get flanging effect when you lower the signal level of the input. You can get a unique effect like a long note that is completely dry at the beginning and then the flanging effect is gradually added as the signal level of the note decreases. On the other hand, you can have the flanging effect only when you play loud if you set the "SENSE" parameter to the plus value. This effect works great when you want to embellish the accents in your arpeggios and riffs or to add a hidden flavor to your lead guitar sound.

Such as product names and company names are all (registered) brand names or trade marks of each respective holders, and Zoom Corporation is not associated or affiliated with them. All product names, explanation and images are used for only purpose of identifying the specific products that were referenced during product development.

Modeling Description ... Reference for drive effect types and its original models.

MESA/BOOGIE Mark III

EFFECT TYPE: BC CRUNCH

(PE) **PC**

EFFECT TYPE : BG DRIVE

FEFECT TYPE : JC CREAN

EFFECT TYPE: CLASS A CLEAN

(ER) CA

(JE)) **JC**

(են)) **bG**

The origin of the MESA/BOOGIE amplifier was the modified Fender Princeton. Randall Smith, an amp tech in San Francisco, souped up those small guitar amps to put out 100w power and sold them. The first model was called "Mark I". Carlos Santana tried one and said, "Shit man, that little thing really Boogies!" -which gave the amplifier the brand name

The second model "Mark II" had lead and rhythm channels and a 4-band equalizer to give wider variety to the guitar tone. The special feature of this model was an accomplished simul-power circuitry (the operation could be switched between class A and class AB). The power amplifier section had six power tubes. When the class A operation is selected, two EL34 power tubes are activated and the amp puts out a really smooth sound. When the class AB operation is selected, these two EL34s and other four 6L6GC power tubes are all activated and the amplifier puts out its full potential power.

Until the model Mark II, MESA/BOOGIE amps were quite expensive, hand-made amplifiers, but the next model "Mark III" was more affordable. It has one 10" loudspeaker and 60w output power but retains all of the classic BOOGIE features; simul-power circuitry, the graphic EQ, and three (Rhythm1, Rhythm2 and Lead) separate channels. With this Zoom G series, you can select the modeling of the combo type of this "Mark III."

MESA/BOOGIE Dual Rectifier

The "Rectifier" model has the improved simul-power circuitry (see the "Mark III" section) and the increased gain in the preamp section. This amp puts out 100w power and has five 12AX7 tubes for the pre-amp and four 6L6GC tubes for the power-amp. As opposed to the "Mark" series the Rectifier has its tone control circuit after the volume circuit for better effect on the sound. Since this amp had been introduced, the brand image of MESA/BOOGIE has changed from being the premiere amp manufacturer for fusion music to that for heavy metal music

The most prominent feature of this amp is its rectifier circuitry after which it was named. The "Dual Rectifier" employs, as its name suggests, two different rectifier circuits: one uses silicon diodes and another uses tubes. When the diodes are selected, the amp gives you tight and highly powerful sound. When the tube rectifier circuit is selected, you will get a warmer sound. This program is modeled after the combination of a four-12" BOOGIE cabinet and the Dual Rectifier head using the vintage channel and the silicon-diode rectifier circuit

Roland JAZZ CHORUS

Simply put, the Roland "JC-120" is the most familiar guitar amplifier among both professionals and amateurs. Released in 1975 from Roland, this amp became known as "portable", "loud" and "almost trouble-free" (which are the very characteristics Japanese products are known for!). You are pretty sure to find one in any live houses or studios all over the world. The key to that sound of "JC-120" is its unique chorus effect; the slightly delayed vibrato sound comes from one of two 12" loudspeakers and the dry sound from another and both sounds are combined in the air, which creates that distinctive spacey mood. This effect became very popular which is why Roland decided to release the chorus circuit independently as the "CE-1" pedal. Incidentally, the chorus effect on the G series is modeled after its follower "CE-2". Another unique feature of JC-120 is its "Bright" switch. This function is not included in this modeling program but you can approximate the effect of this switch by tweaking the "Harmonics" parameter in the "Extra EQ" section.

O VOX AC30/6TB

The long history of the VOX company harks back to the foundation of "Jennings Musical Instruments" (JMI) in 1958. Originally, this company made amplifiers with 10-15w output power but the musical trend required more powerful amplification, which resulted in the birth of the revered "AC30" guitar amp. The very original AC30 had two Celestion 12" loudspeakers using alnico magnets, EF86 pre-tubes, EL84 power-tubes and a GZ34 rectifier tube. The Shadows and the Beatles used this model and their influence helped this amp become popular among many guitarists. Later, as the musical trend required amplifiers with even more gain, the company developed an add-on device called "Top Boost Unit". The "AC30-6TB", which this program in our G series is modeled after, is the later version of the AC30 with an integrated "Top Boost Unit". After the JMI had sold the VOX brand, the sales of the amplifier regrettably began to decline. However, the KORG Inc. acquired the VOX name recently and rejuvenated the brand by starting to manufacture truthful reissue models. In this G series, the program is modeled after the sound using the Hi input of the normal channel that will give you that clean guitar sound of the Beatles and the Shadows, which are the best examples of the distortion-free sound of the class-A operated amplifiers.

Fender Tweed Deluxe '53

The very first Fender amplifier was developed by Leo Fender and his trusty partner, the engineer Doc Kaufman in 1945-46. Actually, the earliest models were not made under the "Fender" brand but the "K&F Manufacturing Corporation" named after the Initials of the two. The first amplifier using the "Fender" brand was the "Model 26" in 1947. In 1949, the entry models called "Champion 400/600" series followed. The so-called "Tweed Amps" covered literally with tweeds all over were developed during the 1950s and the 1960s. In these years, the company put out various tweed models like the "Bassman" or the "Bandmaster". The program of this G series is modeled after, among others, the most representative "Tweed Deluxe" aka the "Wide Panel" from 1953. This amplifier has a 12AY7 and a 2AX7 pre-tubes, two 6V6GT power-tubes, a 5Y3GT rectifier tube and a 12" Jensen loudspeaker and its output power is 10w. Recently the original amplifier is priced quite highly and is very difficult to find in good condition. This amp has two inputs but one is the input for a microphone. It has just one tone knob for treble control. Therefore, it is advisable to use this program on the G series with a flat tone setting except for the treble

parameter so that you can enjoy the characteristic sound in the lower registers and the

Fender Twin Reverb '65

unique sound in the higher registers of the original Fender amp.

In the later half of 1965, a reverb unit was added to the "Twin" amp, which was the birth of the "Twin Reverb" model. In 1965, Fender company was sold to CBS because of Leo Fender's health problem. The program on this G series is modeled after the pre-CBS "Twin Reverb" from 1965 aka "Black Panel". This amp has four 7025 (12AX7), a 12AX7 and two 12AT7 pre-tubes, four 6L6GC power-tubes and silicon diodes for the rectifier circuit. The diode rectifier is believed to give a tighter sound to the amplifier than the tube rectifier does, which should be the key to the characteristic glittering sound of this "Twin Reverb". This guitar amplifier has two 12" loudspeakers by Jensen and pus out 80w power. On the program in this G series, you can have the sound with the "Bright" switch on by tweaking the "Harmonics" parameter in the "EXTRA EQ" section. When you turn the reverb effect on, you will get that "Twin Reverb" sound you have been longing for.

PEAVEY 5150 STACK

The "5150" and the "5150 MkII" were very famous guitar amplifiers originally developed as the signature models for Eddie Van Halen. Unfortunately, he doesn't use it anymore because of the expiration of the endorsement contract. The program on this G series is modeled after the first version of the "5150". This amplifier has two (Rhythm and Lead) channels and puts out 120w power using five 12AX7 pre-tubes and four 6L6GC powertubes. The rectifier circuit employs silicon diodes. The uniqueness of the sound of this amplifier is characterized by its sharp attack, deep and smooth tone, fine distortion and fat and clinging low registers. The program is modeled after the combination of the Lead channel of the 5150 head and a "5150SL", a four-12" cabinet. Just crank up the gain and play one of Van Halen's hit "Top Of The World"!

EFFECT TYPE : MS DRIVE Marshall JCM2000

"JCM2000" is based on the reputed "Plexi" amp (aka Old Marshall) whose rich overtones and powerful sound were legendary. It has very flexible sound and can produce the traditional Marshall sound, modern heavy metal sound or sounds suitable for any musical genre. It has the modern Marshall's standard circuit with four ECC83 pre-tubes and four EL34 power-tubes. It is an all-tube amplifier that can produce clean or heavily distorted sound and you can use it in all kinds of music. The sound is rather grainy but the response is fast and the guitar sound cuts through very well. "JCM2000" series has two different models: the TSL and the DSL. The program on the G series is modeled after the simply designed "DSL-100". As with the modeling of the "JCM800", we combined the head with a "1960A" cabinet and used the Lead channel that has more distortion.

O Marshall JCM800

(6L) **bL**

EFFECT TYPE : FD CLEAN

FEFECT TYPE · PV DRIVE

(Pu) **Pv**

(Dd) **Md**

(FT)) **FC**

Marshall has continued to produce great amplifiers for up-to-date musical trends in cooperation with the musicians. This brand started with its "JTM- 45 (stands for Jim&Terry Marshall)" in 1962 and now its products are indispensable items in the modern Rock scene. Marshall seems to have been experimenting with different circuit designs of amplifiers but 1981 was the most prolific year for the brand because it released many new models like the "1959" and "1987" with four inputs, "2203" and "2204" with master volumes. In 1983, Marshall added the "2210" and "2205" with two (Normal and Boost) channels as well as effect send/return connectors to its lineup. These models also carried the collective designation "JCM (stands for Jim&Charles Marshall) 800". They had three ECC83 pre-tubes and four EL34 power-tubes. The tone control circuit was placed after the pre-amp section and this design seems to have become the standard for the modern Marshall amplifiers. For the modeling on this G series, we selected the "2203" with a master volume and it is quite easy to get the distortion. By today's standards, the amplifier's distortion is rather moderate, but the sound is very fat, the low-end is quite tight and, above all, the sound cuts

through very well. When higher gain is required, this amplifier is often combined with

overdrive or booster pedals. For the modeling, we used the head with a "1960A" cabinet

that has four 12" loudspeakers and works very well with the "2203"

O BOSS OD-1

The "OD-1" released by BOSS in 1977 was originally developed for the simulation of the natural overdrive sound of tube amplifiers, but this stomp box turned out to be popular as the booster unit to connect to the input of the real tube amplifier to get tighter and more punchy sound with the increased gain. The "OD-1" employs the asymmetrical "clipper" section in its circuit design that uses three diodes to create the overdrive sound that is mild and rich in nuances. The pedal had been in production from 1977 to 1985, but now it is unexpectedly difficult to even find a used one. And if you could locate one, it would be astonishingly expensive. There have been many stomp boxes known as overdrive units. The most famous one is probably the "Tube Screamer" but we chose this very original overdrive pedal "OD-1". If you are lucky enough to use the real "OD-1", we invite you to try blind test to turn off all of the effect module except the "OD-1" on the G series and compare the sound of the modeling and that of the real one. We think that you will not hear any

ROSS MT-2

difference

FEFECT TYPE · METAL ZONE

The "MT-2" ("METAL ZONE") has the strongest distortion. Its unique distortion sound has very fat mid to low range and it has a parametric EQ in addition to the Hi and Low EQs, which is the key to the scooped metal sound. This stomp box is reputed for its flexibility in sound because you can not only get that scooped metal sound by cutting the mid range and boosting the high and low range but also the overdrive sound by reducing the gain and boosting the mid range. This is one of the best-selling stomp boxes among many of the popular line-ups of BOSS products. Once connected, the Strat or the Les Paul will have the "MT-2" sound regardless of the types of guitar pickups. It was first introduced in 1991 and is still in the BOSS's catalog; a truly a long-seller!

Dallas-Arbiter FUZZ FACE

"FUZZ FACE" was originally released from the Dallas-Arbiter company in 1966 encased in a uniquely designed housing that literally looked like a face. It is also famous as legendary quitarist Jimi Hendrix's favorite gear. He combined this "FUZZ FACE" with his Marshall amps because it was hard to get distorted sound from them at that time, and created avantgarde tones. The heavy and fat low end and the fuzz sound with long sustain are the characteristics of this effective device. The earliest model used two PNP germanium transistors and was very different in sound from the later models using silicon transistors. The theory of creating distorted sound is simple. Have you tried to connect the guitar to a microphone input on your radio cassette recorder to emulate that sound? You cannot go too wrong if you think that the circuitry of this device is similar to that. The program on this G series is modeled after this earliest version most satisfactorily

Marshall Guv'nor

EFFECT TYPE : MS CRUNCH

EFFECT TYPE : OVERDRIVE

bO ((60))

(UF) **Mt**

EFFECT TYPE : FUZZ FACE

(FF) **FF**

(UE)) MC

The initial sales talk for this serious distortion pedal "Guv'nor" bearing the Marshall brand was that you could get the distortion sound of the Marshall amps with this small stomp box. Depending on which guitar amps you combine, you can actually get the Marshall amps distortion. There are two different versions of the Guy'nor: the Britain-made ones from 1988 and the Korean-made ones from 1998. The program on this G series is modeled after the original version from 1988. The Guv'nor's characteristic feature is the frequency point you can tweak using the "TREBLE" control. Even if you lower this parameter value, the sound will get fat instead of getting dullish. As you raise the value, the sound will get sweeter and clearer

MATCHLESS HOT BOX

The "HOT BOX" was released as a pedal preamp bearing the MATCHLESS brand. It uses two 12AX7A tubes for the truthful reproduction of the sound of the "MATCHLESS" guitar

amplifiers. It has the compressed sound and the quick response, which are distinctive characteristics of tube amps. Its sound is fat and cuts through very well, too. Even if you crank up the gain to get a distorted sound, you will retain the nuances of the original guitar sound. Although it is categorized as preamp, the ideal way to get the best possible sound is to connect it, like usual stomp boxes, to the input of your quitar amp. Its design is also attractive: the case is polished like a mirror and the "MATCHLESS" logo lights up when you turn it on. This "Hot Box" is literally a magic box: you can get the signature sound of the "MATCHLESS" amps regardless of the guitar amplifier you connect it to.

ZOOM Extreme Distortion

FEFECT TYPE · EXTREME DISTORTION



EFFECT TYPE : GUV'NOR

EFFECT TYPE : HOT BOX

(Hb)) **Hb**

((ப்ப)) **GV**

This distortion program is developed especially for the G series. We deliberately made use of the characteristics of digital devices and even emphasized the edge of the digital sound to get the distortion to the maximum. The "TM-01" (Tri Metal) was the pedal that had the deepest distortion sound among the stomp boxes from ZOOM but was discontinued. It had

as much as three diode-clipping stages and had very high gain. The "Extreme Distortion" is programmed to get the gain even higher. It raises the signal level to the maximum at the input stage and gets the wild distortion sound at the clipping stage. In fact, you won't change the distortion rate even if you lower the volume on your guitar! Its distortion is that deep. Contrary to the usual distortion effects whose sound gets thinner as you raise the gain, this "Extreme Distortion" won't lose the fatness and tightness of the sound.

O ZOOM Digital Fuzz

EFFECT TYPE : DIGI FUZZ



Forty years ago, my fellow guitar player used to crank up his amp trying to distort his guitar sound and make other guys of the band virtually deaf at the end of the rehearsal. When it was difficult to get the distorted sound out of the amplifiers like in those days, some guys made cuts in the cone loudspeakers to make the sound distorted, which was the origin of the sound of fuzz effects. The fuzz pedals were developed to reproduce that distortion-like sound. In other words, the trick of fuzz effect is to simulate the dirty distortion and that "broken" feel. This "Digital Fuzz" has the very effect described above. Its drastic distortion, relentless cut-offs and noises in the decay are the characteristics that one could simply describe as "broken". Its fat and tight sound can be seriously recommended for the fuzz maniacs to try. This is literally the Digital Dirty Fuzz that is only possible in the digital domain (are you brave enough to make cuts in your loudspeakers?).

USB/Cubase LE Startup Guide

This USB/Cubase LE Startup Guide explains how to install Cubase LE on a computer, how to make the G2.1u connection and settings, and how to record your guitar play.

Cubase LE Installation Connections and Preparations Recording with Cubase LE

Cubase LE Installation

Connections and Preparations

Recording with Cubase Li

Windows XP

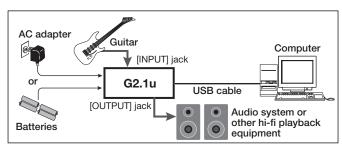
To connect the G2.1u to a computer running Windows XP and to enable audio input/output, proceed as follows.



Install Cubase LE on the computer.

When you insert the CD-ROM supplied with this product into the CD-ROM drive of the computer, the installer will start up automatically. Follow the on-screen instructions to install Cubase LE

Connect the G2.1u to the computer using a USB cable.



When the [POWER] switch of the G2.1u is ON, the unit will be powered from the AC adapter or internal batteries.

When the [POWER] switch of the G2.1u is OFF, the unit will be powered via the USB cable (bus power). This is convenient when no AC adapter or batteries are available or when the batteries are exhausted

NOTE

- If you monitor the audio signal during recording via the audio output of the computer, there will be an audible latency. Be sure to use the [OUTPUT] jack of the G2.1u to monitor the signal.
- When the G2.1u is powered via the USB cable, insufficient power may result in unstable operation, causing an error indication to appear on the display. In such a case, power the G2.1u from an AC adapter or batteries
- Use a high-quality USB cable and keep the connection as short as possible. If power is supplied to the G2.1u via a USB cable that is more than 3 meters in length, the low voltage warning indication

When you connect the G2.1u for the first time to a computer running Windows XP, a message saying "New Hardware Found" will appear. Before proceeding, wait a while until this message disappears.

From the "Start" menu, select "Control Panel" and double-click "Sounds and Audio Devices".

The sounds and audio devices properties screen appears. Click the "Audio" tab and check whether "USB Audio CODEC" is selected as default device for audio playback and recording.



If another device is selected, use the "Default Device" pull-down menu to change the selection to "USB Audio CODEC".

When the setting has been made, click the OK button to close the sounds and audio devices properties screen.

Start Cubase LE.

A window asking whether to check the audio input/output port appears. Click OK to perform the check.

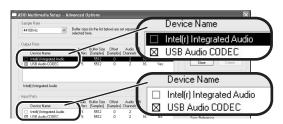
After Cubase LE has started up, access the "Devices" menu, select "Device Setup..." and click "VST Multitrack" in the list of devices.



Check whether "ASIO Multimedia Driver" is selected as ASIO driver in the right part of the device setup window.

Click the "Control Panel" button in the device setup window. In the window that appears, click the "Advanced Options" button.

In the advanced options window, check whether "USB Audio CODEC" is selected as input port and output port.



If not selected, click the respective box to place a check mark in it. When the setting has been made, click the OK buttons to close the windows and return to the normal post-startup Cubase LE screen.

HINT

- By clicking the Move up/Move down button in the advanced options window, you can change the priority sequence setting of the currently selected port. If you move "USB Audio CODEC" to the top of the list, it will also be at the top in the following VST input
- · When you edit any of the settings in the advanced settings window, a window asking whether to check the audio input/output port appears. Click OK to perform the check.

Access the "Devices" menu and select "VST Inputs". The VST inputs window appears. Check whether the input port is active.



If the Active button is Off (grayed out), click the button to set it to On.

HINT

When multiple input ports are available for selection, you should scroll or enlarge the window and check the enable/disable settings for all



Cubase LE Installation

Connections and Preparations

MacOS X

To connect the G2.1u to a computer running MacOS X and enable audio input/output, proceed as follows.

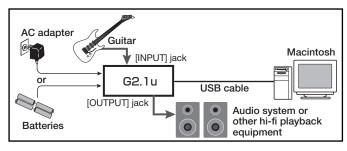
Insert the CD-ROM supplied with this product into the CD-ROM drive of the Macintosh computer.

The "Cubase LE" icon appears on the desktop

Double-click the icon to open it, and use the "Cubase LE Installer" to install Cubase LE.



Connect the G2.1u to the computer using a USB

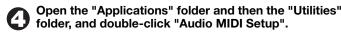


When the [POWER] switch of the G2.1u is ON, the unit will be powered from the AC adapter or internal batteries.

When the [POWER] switch of the G2.1u is OFF, the unit will be powered via the USB cable (bus power). This is convenient when no AC adapter or batteries are available or when the batteries are exhausted.

NOTE

- If you monitor the audio signal during recording via the audio output of the computer, there will be an audible latency. Be sure to use the [OUTPUT] jack of the G2.1u to monitor the signal.
- · When the G2.1u is powered via the USB cable, insufficient power may result in unstable operation, causing an error indication to appear on the display. In such a case, power the G2.1u from an AC adapter or batteries.
- Use a high-quality USB cable and keep the connection as short as possible. If power is supplied to the G2.1u via a USB cable that is more than 3 meters in length, the low voltage warning indication



The Audio MIDI Setup screen appears. Click "Audio Devices" and check whether "USB Audio CODEC" is selected as default input/default output.



If another device is selected, use the pull-down menu to change the selection to "USB Audio CODEC".

When the setting has been made, close Audio MIDI Setup.

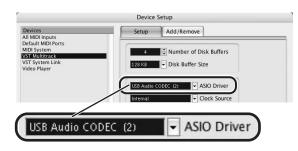
Start Cubase LE.

HINT

The Cubase LE program is installed in the "Applications" folder

When Cubase LE has started up, access the "Devices" menu, select "Device Setup...", and click "VST Multitrack" in the list of devices.

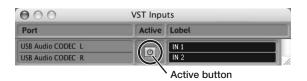
> Check whether "USB Audio CODEC(2)" is selected as ASIO driver in the right part of the device setup window.



If another item is selected, use the pull-down menu to change the selection

When the setting has been made, click the OK button to close

Access the "Devices" menu and select "VST Inputs". The VST inputs window appears. Check whether the input port is active.



If the Active button is Off (grayed out), click the button to set it to On.

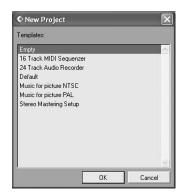


ORW

Master channe

Access the "File" menu and select "New Project".

The new project window appears. Here you can select a project

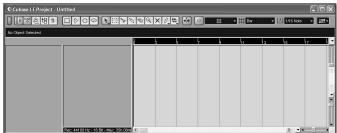


Make sure that the "Empty" template is selected, and click the OK button.

A window for selecting the project file save location appears.

After specifying the project file save location (such as the desktop), click the OK button (Choose button in MacOS 10.4).

A new project is created, and the project window for controlling most of the Cubase LE operations appears.



Project window

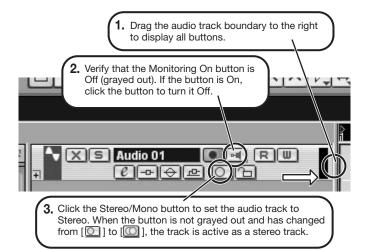
To create a new audio track, access the "Project" menu and select "Add track". In the submenu that appears, select "Audio".

A new audio track is added to the project window.



HINT

You can add several tracks at once by accessing the "Project" menu, selecting "Add track" and then selecting "Multiple..." in the submenu. Make the following settings for the new audio track.



Access the "Devices" menu and select "VST Inputs".

The VST inputs window appears. This window shows the available input ports and their active/inactive

You can perform the following steps here.

2. Verify that the Active button for USB Audio CODEC 1/2 (USB Audio CODEC L/R on MacOS X) is enabled (not graved out). If the button is graved out, click the button to enable it. **VST** Inputs Port active Label USB Audio CODEC 1 USB Audio CODEC 2 VST input window 1. When there are multiple input ports, drag here to enlarge the window.

Connect the guitar to the [INPUT] jack of the G2.1u and select the desired patch.

The sound selected here will be recorded on the computer via the [USB] port.

Access the "Devices" menu and select "Mixer".

The mixer window appears.

This window shows the channels assigned to created tracks.

You can perform the following steps here.

Click here to select the port for the USB Audio CODEC 1/2 (USB Audio CODEC L/R on MacOS X) assigned as audio input port to the channel (see step 13). Mixer window 1. To adjust the playback level after recording, click this button to bring up the master channel of the mixer IXI ISI IRI X 5 R W e 4. Click here to set the audio output port of the master channel to "USB Audio **→ M W** CODEC" 4 0.00 USB Audio .

3. Verify that the Record Standby button is shown in red. (If the button is grayed out, click the button to enable it. This

will set the audio track to the recording standby condition.)

HINT

0

When the Record Standby button is enabled, the level meter next to the fader shows the input level for the audio track. When the button is disabled, the output level for the audio track is shown.

While playing your guitar, adjust the output level of the G2.1u to achieve a suitable recording level for Cubase LE.



Level meter

Channel assigned to audio track

When the audio track is in recording standby mode. its recording level is shown by the level meter for the assigned channel. The level should be set in such a way that the meter registers to a fairly high value but remains below the maximum point.

NOTE

- · The level meter shows the signal level after internal processing by Cubase LE. Therefore a slight time lag may occur between playing a guitar string and the meter registering the change in level. This is normal and not a
- The audio tracks of Cubase LE will be recorded with correct timing exactly matched to your guitar play. There will be no lag between already recorded tracks and newly added tracks.

Verify that the transport panel is shown.



Transport pane

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.



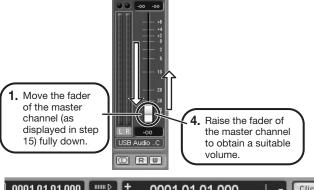
As you play your guitar, the waveform appears in real time in the project window.

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

Recording stops.

Check the recorded content.

To play the recording, perform the following steps.





2. Use the controls on the transport panel to move to the beginning of the project.

Go to beginning of project

3. Click the Play button in the transport panel to start playback.

Play button

HINT

If no sound is heard when you click the Play button after recording, check the settings in the VST input window (step 13) and the master channel output port setting (step 15) once more.

For optimum enjoyment

While using Cubase LE, other applications may slow down drastically or the message "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.

- (1) Shut down other applications besides Cubase LE. In particular, check for resident software and 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
- (3) Power the G2.1u from an AC adapter.

When powered via the USB port, the current supply may sometimes fluctuate, leading to problems. See if using an AC adapter improves

If applications still run very slowly or the computer itself does not function properly, disconnect the G2.1u from the computer and shut down Cubase LE. Then reconnect the USB cable and start Cubase LE again.

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

Connections and preparation

Use Cubase LE 4 to record

Cubase LE 4 installation > Connections and preparation

Use Cubase LE 4 to record

Windows Vista / XP

To connect this unit to a computer running Windows Vista (or Windows XP) and to enable audio input/output, proceed as follows. The installation description uses Windows Vista as an example.



Download the latest ASIO driver from the web site of ZOOM Corporation (http://www.zoom.co.jp) and install

The ASIO driver software is required to enable use of Cubase LE 4 for audio input and output with a computer. Refer to the read me file included in the download package for instructions on how to install



Insert the supplied "Cubase LE 4" DVD-ROM into the DVD drive of the computer, and perform the installation steps.

When you insert the DVD-ROM, a screen asking what you want to do

appears. Select "Open folder to view files".

When the contents of the DVD-ROM are shown, open the "Cubase LE 4 for Windows" folder by double-clicking on it, and then doubleclick the executable "Setup" ("Setup.exe") file to start the installation



HINT

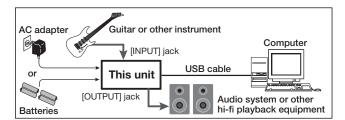
If nothing happens when you insert the DVD-ROM, open the Start menu and select "Computer" ("My Computer" in Windows XP). Then double-click the "Cubase LE 4" DVD-ROM icon to display the contents of the DVD-ROM.

NOTE

When the installation of Cubase LE 4 is complete, a screen asking about installation of activation (software license authentication) management software appears. Install this software, because it is required for registering Cubase LE 4.



Connect this unit to the computer using a USB cable.



NOTE

- If you monitor the audio signal during recording via the audio output of the computer, there will be an audible delay. Be sure to use the [OUTPUT] jack of this unit to monitor the signal.
- When this unit is operated on USB bus power via the USB cable, insufficient power may result in unstable operation or error indications appearing on the display. In such a case, power the device from an AC adapter or batteries.
- Use a high-quality USB cable and keep the connection as short as possible. If USB bus power is supplied to this unit via a USB cable that is more than 3 meters in length, the low voltage warning indication may appear.

HINT

No special steps are necessary for canceling the USB connection. Simply disconnect the USB cable from the computer.

When you connect this unit for the first time to a computer running Windows Vista, a message saying "New Hardware Found" will appear. Before proceeding, wait a while until this message disappears.

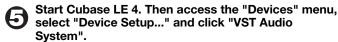
Bring up the "Sound" window from the Control Panel and make the input device setting for the computer.

To bring up the "Sound" window, select "Control Panel" from the Start menu and click "Hardware and Sound", then click "Sound".

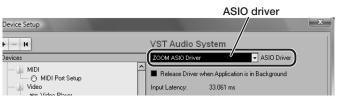


In the "Sound" window, verify that "USB Audio CODEC" is listed under the Play and Record devices and that the device is checked. (To switch between Play and Record, click the tabs at the top of the

If the device is not checked, right-click on the icon for the device and click "Set as Default Device" so that a check mark appears.

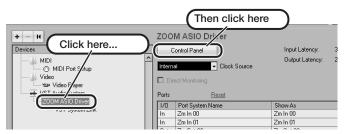


To start Cubase LE 4, double-click the Cubase LE 4 shortcut icon that was created on the desktop. After startup, select "ZOOM ASIO Driver" as the ASIO driver in the right section of the Device Setup window. When you change the ASIO driver selection, a confirmation message appears. Click the "Switch" button

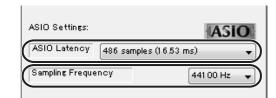


The device indication in the left section of the window now shows "ZOOM ASIO Driver" as the ASIO driver.

Click on this indication to select it, and then click the "Control Panel" button in the right section of the Device Setup window



The window that appears lets you set the latency and sampling frequency for the ASIO driver. The latency should be set to a value that is as low as possible without causing sound dropouts during recording and playback.



When the setting is complete, click the OK buttons in the respective windows to return to the startup condition of Cubase LE 4.



Cubase LE 4 installation

Connections and preparation

Use Cubase LE 4 to record

MacOS X

To connect this unit to a computer running MacOS X and enable audio input/output, proceed as follows.



The contents of the DVD-ROM appear automatically. If nothing happens when you insert the DVD-ROM, double-click the "Cubase LE 4" icon shown on the desktop.

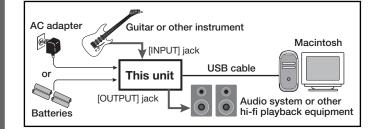
Install Cubase LE 4 on the Macintosh.

When the contents of the DVD-ROM appear, open the "Cubase LE 4 for MacOS X" folder by double-clicking it, and then double-click the "Cubase LE 4.mpkg" file to start the installation process.



Cubase LE 4.mpkg

Connect this unit to the computer using a USB cable.



NOTE

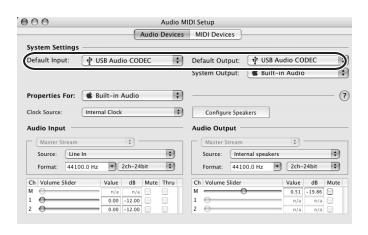
- If you monitor the audio signal during recording via the audio output of the computer, there will be an audible delay. Be sure to use the [OUTPUT] jack of this unit to monitor the signal.
- · When this unit is operated on USB bus power via the USB cable, insufficient power may result in unstable operation or error indications appearing on the display. In such a case, power the device from an AC adapter or batteries.
- Use a high-quality USB cable and keep the connection as short as possible. If USB bus power is supplied to this unit via a USB cable that is more than 3 meters in length, the low voltage warning indication may appear.

HINT

No special steps are necessary for canceling the USB connection. Simply disconnect the USB cable from the computer.

Open the "Applications" folder and then the "Utilities" folder, and double-click "Audio MIDI Setup".

The Audio MIDI Setup screen appears. Click "Audio Devices" and check whether "USB Audio CODEC" is selected as default input/ default output.



If another device is selected, use the pull-down menu to change the selection to "USB Audio CODEC" When the setting has been made, close Audio MIDI Setup.

Start Cubase LE 4. Then access the "Devices" menu, select "Device Setup..." and click "VST Audio System".

To start Cubase LE 4, double-click on the Cubase LE 4 icon that was placed in the "Applications" folder during installation. After startup, be sure to verify that "USB Audio CODEC (2)" is selected as ASIO driver in the right section of the Device Setup window.

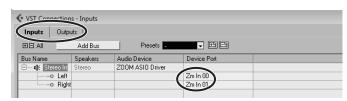


If another item is selected, use the pull-down menu to change the selection to "USB Audio CODEC (2)"

When the setting has been made, click the OK button to close the



From the "Devices" menu of Cubase LE 4, select "VST Connections" and select the device containing the string "Zm In (Out)" ("USB Audio CODEC" for MacOS X) as input port and output port.



Use the tabs at top (top center for Mac OS X) left to switch between input and output, and verify that "Zm In (Out)" is selected as device port. If another device is selected, click the device port field and change the selection.

Access the "File" menu and select "New Project".

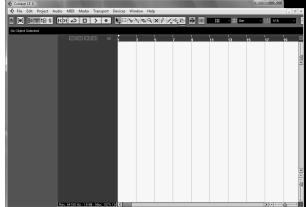
The new project window appears. Here you can select a project

Make sure that the "Empty" template is selected, and click the OK button.

A window for selecting the project file save location appears.

After specifying a suitable project file save location (such as the desktop), click the OK button (Choose button in MacOS X).

A new project is created, and the project window for controlling most of the Cubase LE 4 operations appears.



Project window

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

he Add Track window for specifying the number of audio tracks and the stereo/mono setting appears.

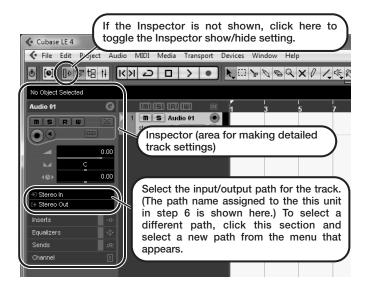


In this example, set the number of tracks to "1" and select stereo, then click the OK button.

A new stereo audio track is added to the project window



Make the following settings for the newly created



HINT

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

Connect the guitar or other instrument to the [INPUT] jack of this unit and select the desired patch.

The sound selected here will be recorded on the computer via the

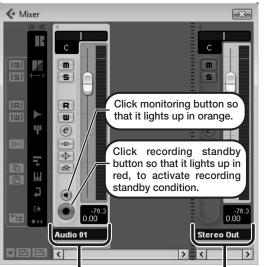
Access the "Devices" menu of Cubase LE 4 and select "Mixer".

The mixer window appears.

This window shows the channel assigned to the created track, and the master channel

Perform the following steps here.

Mixer window



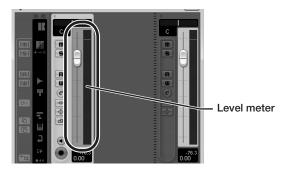
Channel assigned to audio track

Master channel

HINT

When the monitoring button is enabled, the level meter next to the fader shows the input level to the audio track. When the monitoring button is disabled, the meter fader shows the audio track output level

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

- While the monitoring button is enabled, the direct signal input to this unit and the signal routed to the computer and then returned to this unit will be output simultaneously from this unit, causing a flanger-like effect in the sound. To accurately monitor the sound also while adjusting the recording level, temporarily set the output device port for the VST connection (step 6) to "Not Connected".
- 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.
- When the recording level has been adjusted, click the monitoring button to disable it.

The input level is no longer shown on the meter, and the signal returned to this unit via the computer is muted.

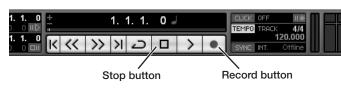
In this condition, only the signal before sending to the computer can be monitored via the [OUTPUT] jack of this unit.

Verify that the transport panel is being shown.



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.



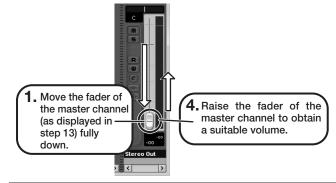
Recording starts.

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

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

(:) Check the recorded content.

To play the recording, perform the following steps.





Go to beginning of project

Play button

2. Use the button in the transport panel to move to the beginning of the project.

3. Click the Play button in the transport panel to start playback.

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.

(3) Power the unit from an AC adapter.

When a device designed to use USB power is powered via the USB port, the current supply may sometimes fluctuate. leading to problems. See if using an AC adapter improves operation.

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.