

# LAYER DELAYER™

## Ibanez OWNER'S MANUAL



### ENGLISH

Before using this device, be sure to read this manual thoroughly for safe use of it. After that, keep this manual in a safe place and read it whenever necessary.

#### Safety Precautions === Be sure to observe the following precautions ===

In order to use this device properly, the contents to be observed are explained, classified as follows.

■ The severities of the injury and damage due to incorrect usage by ignoring the written contents are explained by the following classified indications.

⚠ <b>Warnings</b>	Indicates a potentially hazardous situation which, if not avoided, will result in death or serious injury.
⚠ <b>Cautions</b>	Indicates a potentially hazardous situation which, if not avoided, will result in injury or property damage.

■ The contents to be observed are explained, being classified by the following pictograms.

ⓘ...This pictogram shows a compulsory action, something that you must do.

⊘...This pictogram shows a prohibition, something that you must not do.

⚠...This pictogram shows a notice, something that you need to be alerted to.

#### ⚠ Warnings

ⓘ	Never disassemble or modify the device.
⚠	In case of an abnormality such as smoke, burning smell or abnormal sound, immediately stop using the device.
ⓘ	Immediately unplug the AC adapter from the outlet.
⊘	Do not operate with wet hands. <<A short circuit or an electric shock may occur.>>

#### ⚠ Cautions

⚠	Be sure to use the specified AC adapter. <<Using an unspecified AC adapter may cause a fire or an electric shock.>>
⊘	Do not store or use the device in places such as a bath or outdoors where water splashes. Also do not use it in places of high humidity, places with a lot of dust, or at high temperatures. <<A fire, an electric shock or a failure may occur.>>
⊘	Do not store in places of excessive vibrations. <<It may cause a failure.>>
ⓘ	When not in use for a long time, be sure to unplug the AC adapter from the outlet for safety. <<A fire may occur.>>
⊘	Do not apply excess force, drop nor give strong physical impact. <<A failure or injury may occur.>>
⊘	Do not use thinner, alcohol, and the like for cleaning. <<It may cause a failure.>>

### OPERATION

#### 1 MIX

Controls the mix level of dry and wet delay signal. At the minimum position, only the dry signal is output. Turning it clockwise toward 12 o'clock increases the wet signal level, and the mix ratio gets 100%/100% at 12 o'clock. Turning it clockwise toward the maximum position decreases the dry signal level, and only the wet signal is output at the maximum position.

##### Parameter values

Minimum: 0

12 o'clock: 50

Maximum: 100

#### 2 FILTER – RESONANCE

Layer Delayer has a built-in simulated low pass ladder filter. The RESONANCE controls its resonance level. This filter only affects the wet signal.

#### 3 FILTER – CUT OFF

Turning it clockwise increases the cut-off frequency of the filter. Click this knob to turn the filter on/off. The lower left LED lights up while the filter is on.

#### 4 TIME

Controls the delay time. The number on the 14-segment display can be switched between time (milliseconds) and BPM by clicking this knob. At a transition to time display, "TIM" blinks 3 times on the display. At a transition to BPM display, "BPM" blinks 3 times.

Time: 40ms – 1500ms

BPM: 40 – 1500

#### 5 FEEDBACK

Controls the delay feedback level (number of repeats).

#### 6 TONE

Controls the delay tone. At the minimum position, the filter of tone simulates a tape echo. Turning it clockwise toward 12 o'clock the sound transitions to an analog delay tone. The tone simulates a 100% analog delay at 12 o'clock. Turning it clockwise from noon makes the tone clearer. At the maximum level the tone transitions to a 100% digital delay tone.

##### Parameter values

Minimum = Tape: 0

12 o'clock = Analog: 50

Maximum = Digital: 100

#### 7 LEVEL

Selects the level depending on what equipment you connect to Layer Delayer. INSTRUMENT level is suitable for a general guitar output level. Choose LINE level in the following cases.

- Input boosted guitar signal
- Using the effect loop on an amplifier
- Use with keyboards and synthesizers etc.

The signal will be distorted if you input too big signal level at the INSTRUMENT level mode.

#### 8 PAN SPEED

Controls the panning speed when set up in a stereo situation. The Layer Delayer has 8 different auto-pan presets ranging from narrow to wide.

#### 9 TAIL DECAY

The general "Tail" feature works just to continue outputting the wet delay signal even after the effect is turned off. This knob can set the feedback level of the tail feature. For example, set the parameter to 0 if you would like to shut the signal off immediately after turning the effect off such as true bypass pedals. Conversely, setting the parameter to 90-100 enables you to get a long tail even after the effect is bypassed.

#### 10 Delay Signal Volumes

The delay time is set as the length of a quarter note, and delay signals corresponding to sixteenth notes and triplets are generated. 1st, 2nd/4, 3rd/4, and 4th/4 correspond to sixteenth notes, and 1st, 2nd/3, and 3rd/3 correspond to triplets.

#### 10-1 Volume

Controls each delay signal level. Unity gain (0dB) is set at 3 o'clock (Parameter value: 100). Turning the knob to the maximum will give the note a +3dB boost (Parameter value: 125).

#### 10-2 Timing LED

The LED lights up at the timing of the assigned note.

#### 10-3 Level indicator

The LEDs light up green depending on the delay signal level. All the 3 LEDs light up white when the delay signal level is boosted (0dB - +3dB).

## 11 14-segment display

Displays the delay time/BPM or a preset number as a default. You can switch the default display by a long press on TAP switch. When adjusting a parameter or a status by knobs or buttons, the parameter or the status is displayed.

## 12 PRESET/PAN MODE

Selects a preset# or auto-pan mode.

### 1. PRESET

Clicking the right button increments the preset#. Clicking the left button decrements the preset#.

### 2. PAN MODE

A long press of both buttons engages the auto-pan configuration and choose a preset by clicking the left or right button. The auto-pan doesn't affect the dry signal but only the wet delay signal and functions only when set in a stereo out situation.



The panning doesn't function. The sound image stays at the center.



Triangle/Wide  
The sound image sweeps side to side widely.



Triangle/Narrow  
The sound image sweeps side to side at 50% width of the Wide mode.



Left to right/Wide  
The sound image moves left to right widely.



Left to right/Narrow  
The sound image moves left to right at 50% width of the Wide mode.



Right to left/Wide  
The sound image moves right to left widely.



Right to left/Narrow  
The sound image moves right to left at 50% width of the Wide mode.



Ping pong/Wide  
The sound image skips side to side widely.



Ping pong/Narrow  
The sound image skips side to side at 50% width of the Wide mode.

## 13 START

Turns the Layer Delayer on and off. The LED above lights up when the effect is on.

## 14 BANK/PRESET

Pressing this switch increments the preset#. A long press increments the bank#. Layer Delayer has 50 presets in total, 10 presets in 5 banks (Bank# A to E).

### How to save your setting

Double pressing the BANK/PRESET switch activates the save function. The current preset# will start to blink. Choose a preset# you would to store the setting by clicking PRESET buttons, then double press the BANK/PRESET switch. The preset# will blink faster and "SAV" will blink indicating that the save process is completed.

Pressing the tap switch in the middle of a save will interrupt in the save process.

### Restoring factory presets

Power up while pressing START and TAP switches. The display will show the default delay time "360".

## 15 TAP

Tapping at least 2 times engages tap tempo control. Holding down this switch will change the display setting between time/BPM or the current preset number.

## 16 INPUT – R

R channel for stereo input.

## 17 INPUT – L/MONO

L channel for stereo input, also work as the MONO input.

## 18 FXS LOOP – SEND

When you add effects on the wet delay signal, connect an input of the effect equipment.

Note: This FXS LOOP signal path doesn't connect the dry signal.

## 19 FXS LOOP – RETURN

Connect an output of the effect equipment.

## 20 OUTPUT – R

R channel for stereo output.

## 21 OUTPUT – L/MONO

L channel for stereo output, also work as the MONO output.

## 22 MIDI – THRU

MIDI messages input to the MIDI IN jack are output directly from this jack.

## 23 MIDI – IN

Connect with a DIN 5-pin MIDI cable to a device that outputs MIDI messages. The Layer Delayer supports MIDI CCs, program changes, channels, and clock. See the MIDI Specification section for a list of features and commands.

## 24 DC power input

Be sure to use a center-negative DC 9V power supply. (AC/DC adapter etc.)

## 25 USB Type-C port

Connects to your PC for firmware updates. Please visit the following link, and download the latest version, the installer, and the Firmware Update Guide.

<https://www.ibanez.com/world/support/manual/index.html#05>

**This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:**

- (1) This device may not cause harmful interference, and**
- (2) This device must accept any interference received, including interference that may cause undesired operation.**

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction, 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 of 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.

To maintain compliance with FCC's FR Exposure guidelines, this equipment should be installed and operated with minimum distance between 20cm the radiator your body: Use only the supplied antenna.