

# ECHO '8



illustrations on your tone™

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illustrations on your tone™

Complete your own music with  
beautiful illustrations on your tone.  
That's the reason behind "illuston".

Quality components, handy features, sturdy build,  
and most importantly, beautiful sound.

Everything is possible.

True-Stereo processing  
Wide dynamic range up to +4dBu  
True-Bypass or Buffer-Bypass with Trails Mode  
Expression/Tap pedal connection  
8 types of effect model for the perfection  
Saving your tones up to 8 presets

## Troubleshooting / Maintenance

- **There's no sound.** Check cable connections. Your instrument should be connected to the input on the right side of the pedal, while the amplifier/sound system should be connected to the output on the left. Check to see if the output level of your instrument is adequately high. Alternatively, the battery may be out of power.
- **Unintended distortion is heard.** In case you connect an instrument with a high gain (such as a synthesizer), It can surpass the maximum input level of +4dBu resulting in distortion. Please adjust the instrument's output to an adequate level. This may be caused by the depleted battery.
- **Problems with an external power.** The pedal needs to be used with a power adapter that outputs constant 9V DC and can handle at least 150mA of current. The polarity of the power jack is center-negative and the power adapter must be corresponding. Please note that while the power jack is connected, the battery is cut off and not used.
- **Problems with a battery.** When powered with a battery, the unit will function only when a mono connector is plugged into the **LEFT/MONO IN** on the right side of the pedal. Power will drawn from the battery as long as the input jack is engaged, even if you are not playing any music. You can also check the battery to make sure it is not exhausted.
- **ON LED blinks.** This signals a voltage drop in the battery as it reaches the end of its life. This means that it's about time to change the battery. Please insert a fresh battery or use an external power source.
- **None of these works, help me!** Please reach out to customer service at <http://www.illuston.com>.

## SPECIFICATIONS

- **Input/Output** ¼" Phone Jacks - Stereo (2-Channel) Audio Input/Output and Expression/Tap Input
- **Input Impedance** 1MΩ
- **Output Impedance** 600Ω
- **Signal-Noise Ratio** 85dBa typical working
- **Frequency Response** 20Hz ~ 20kHz
- **Max Input Level** +4dBu
- **A/D & D/A** 24-bit / 48kHz
- **DSP arithmetic** 32-bit processing
- **Bypass Switching** True-Bypass or Buffer-Bypass with Trails Mode (Selectable)
- **Dimensions** Width 124mm x Depth 104mm x Height 38mm
- **Weight** 560g (not including battery)

## POWER SUPPLY

- **Output Type** 9V DC / 150mA / Center Negative
- **Current Draw** 70mA
- **Battery** 9V (6LR61/6F22/FC-1)
- **Battery Life** approx. 4 hours (with Alkaline Battery)

## 8 Presets to Save Your Favorite Settings, and Call them Right Back

Save your own settings to presets **1** ~ **8** and use them instantaneously when jamming.

- Turn the rotary encoder in the center to choose the effect model of your choice.
- Adjust the 4 knobs above to create the perfect sound.
- Push down on the rotary switch for 2 seconds and the LED will start to blink.
- Turn the rotary encoder to any of the preset position **1** ~ **8**.
- Press the rotary switch again and the current sound will be saved in the selected position.
- Use **PRESET** ↑ / **PRESET** ↓ switch to shuffle through and activate the preset of your choice.

※ On pressing **PRESET** ↑ / **PRESET** ↓ switch, The **PRESET** LED on the bottom left face will light up to indicate that you are in the preset mode.

※ The preset positions of **1** ~ **8** are independent from the effect models written next to them. That is, you can save any effect model to any preset number that you want.

## Changing Pedal Mode

Powering on with **TAP** pedal engaged will let you modify the pedal mode. The

No.	TAP	EXP
1	<b>PRESET</b> ↑	<b>PRESET</b> ↓
2	<b>TAP</b>	<b>PRESET</b> ↑
3	<b>PRESET</b> ↑	<b>TAP</b>

unit will cycle through the above settings.

The initial setting is at **2**. While **TAP** pedal stays down, the LED will light up among **1** **2** **3** to indicate the current mode.

- **TAP** Functions as a tap time switch.
- **PRESET** ↑ Functions as a preset-up switch. Every press will change the current preset **1** ~ **8** in increasing order.
- **PRESET** ↓ Functions as a preset-down switch. Every press will change the current preset **1** ~ **8** in decreasing order.

## 4 Control Knobs Allow for Fine Tuning

- **TIME** The delay time increases as you turn clockwise, from a minimum of 10ms to a maximum of 1.2 seconds. The LED on the left blinks in sync with the tap time.
- **REPEATS** Repeats/Feedback determines how many times the sound is repeated. It maxes out at the 5 o'clock position.
- **TOPE** Adjusts the general tone of the delay sound. Turn counter-clockwise for a smoother and mellow tone, or clockwise for more of a crisp, clear rendition.
- **MIX** Sets the level of the delay and dry sound. At 3 o'clock the volume of the delay is equal to the dry sound (1:1 ratio), turn further clockwise and the dry sound will be disappeared.



## 2 Foot-pedal Switches that can be Employed immediately during Play

- **ON** Turns the effect on and off. When the LED is lit up, the effect is functioning, and when it is off, you are in bypass mode.
- **TAP** You can adjust the **TIME** setting with this switch. The interval between two consecutive taps will set the **TIME**. While you keep it pressed, this will activate **INFINITE REPEATS**, the same as when the **REPEATS** knob is turned to its maximum position at 5 o'clock for a seemingly infinite echo. By changing the pedal mode, it can be used as a **PRESET** ↑ switch. Please refer to *"Changing Pedal Mode"*.

## Connecting an External EXP Pedal for Extra Functionality

The **EXP** connector can accommodate an external switch or expression/volume pedal. Make sure to turn off the power before connecting an external pedal. Depending on the maker of the pedal, the polarity may be different, so please check beforehand for compatibility.

- **Switch Pedal** : Can be set to **PRESET** ↑ / **PRESET** ↓ switch, or **TAP** switch.

Please refer to *"Changing Pedal Mode"*.

- **Expression/Volume Pedal** : With this, you can adjust a selected parameter, one of the 4 control knobs.

Please refer to *"Choosing an EXP Parameter"*.

	Switch Pedal
Tip	Signal
Sleeve	Ground

※ When switch is engaged, Tip and Sleeve are in contact.

	Expression/Volume Pedal
Tip	Signal
Ring	Voltage
Sleeve	Ground

## Choosing an EXP Parameter

If you power the unit up while pushing down on the central rotary switch, this will allow you to change **EXP** setting. You can map the expression/volume pedal to one of the 4 control knobs. The unit will cycle through the controls as long as the rotary switch remains pressed, with the LED **3** **4** **5** **6** indicating the selection of each of the corresponding knobs. Let go when the desired parameter is selected.

※ This is only for when you have an expression/volume pedal to **EXP** connector.

## 8 Effect Models to Bring the Sound in Your Heart

Select the desired effect with the rotary encoder in the center.

- **CRYSTAL** A modern digital delay providing a crisp, clear sound.
- **ANALOG** The typical tone of a vintage analog BBD delay.
- **TAPE** Replicates rich saturation of an analog reel-tap echo used in recording studios.
- **SWEEP** Adds a sweet touch to your melody with its vibrant brilliant sound.
- **SWIRL** A dynamic texture with tremolo effect.
- **DUCK** Feel the unique charm of a ducking delay that responds to your picking.
- **REVERSE** The envelope of the sound is reversed to create psychedelic echoes.
- **PING-PONG** Add some glamour with a stereo delay and hear the echo ping-pongs from left and right.

## Selectable Bypass Modes

The switch on the right lets you select the bypass mode of your choice.

- **TRUE BYPASS** The signal passes as if there was nothing on the way.
- **TRAILS MODE** Provides a low impedance buffer bypass, allowing for a natural fade out when effect is off.