

# drop

POLYPHONIC DROPTUNE

## Owner's Manual

# IMPORTANT SAFETY INSTRUCTIONS



**ATTENTION:** RISQUE DE CHOC ELECTRIQUE - NE PAS OUVRIR

**WARNING:** TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE

The symbols shown above are internationally accepted symbols that warn of potential hazards with electrical products. The lightning flash with arrowpoint in an equilateral triangle means that there are dangerous voltages present within the unit. The exclamation point in an equilateral triangle indicates that it is necessary for the user to refer to the owner's manual.

These symbols warn that there are no user serviceable parts inside the unit. Do not open the unit. Do not attempt to service the unit yourself. Refer all servicing to qualified personnel. Opening the chassis for any reason will void the manufacturer's warranty. Do not get the unit wet. If liquid is spilled on the unit, shut it off immediately and take it to a dealer for service. Disconnect the unit during storms to prevent damage.

The following is indicative of low altitude use; do not use this product above 2000m.



## U.K. MAINS PLUG WARNING

A molded mains plug that has been cut off from the cord is unsafe. Discard the mains plug at a suitable disposal facility.

**NEVER UNDER ANY CIRCUMSTANCES SHOULD YOU INSERT A DAMAGED OR CUT MAINS PLUG INTO A 13 AMP POWER SOCKET.**

Do not use the mains plug without the fuse cover in place. Replacement fuse covers can be obtained from your local retailer. Replacement fuses are 13 amps and **MUST** be ASTA approved to BS1362.



If you want to dispose this product, do not mix it with general household waste. There is a separate collection system for used electronic products in accordance with legislation that requires proper treatment, recovery and recycling.

Private households in the 25 member states of the EU, in Switzerland and Norway may return their used electronic products free of charge to designated collection facilities or to a retailer (if you purchase a similar new one).

For Countries not mentioned above, please contact your local authorities for a correct method of disposal.

By doing so you will ensure that your disposed product undergoes the necessary treatment, recovery and recycling and thus prevent potential negative effects on the environment and human health.

## WARNING FOR YOUR PROTECTION READ THE FOLLOWING:

KEEP THESE INSTRUCTIONS

HEED ALL WARNINGS

FOLLOW ALL INSTRUCTIONS

The apparatus shall not be exposed to dripping or splashing liquid and no object filled with liquid, such as vases, shall be placed on the apparatus.

CLEAN ONLY WITH A DRY CLOTH.

FOR INDOOR USE ONLY.

DO NOT BLOCK ANY OF THE VENTILATION OPENINGS. INSTALL IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.

DO NOT INSTALL NEAR ANY HEAT SOURCES SUCH AS RADIATORS, HEAT REGISTERS, STOVES, OR OTHER APPARATUS (INCLUDING AMPLIFIERS) THAT PRODUCE HEAT.

ONLY USE ATTACHMENTS/ACCESSORIES SPECIFIED BY THE MANUFACTURER.

UNPLUG THIS APPARATUS DURING LIGHTNING STORMS OR WHEN UNUSED FOR LONG PERIODS OF TIME.

Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or third prong are provided for your safety. If the provided plug does not fit your outlet, consult an electrician for replacement of the obsolete outlet.

Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.

Use only with the cart stand, tripod bracket, or table specified by the manufacture, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.



Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

**POWER ON/OFF SWITCH:** The Power switch used in this piece of equipment DOES NOT break the connection from the mains.

**MAINS DISCONNECT:** The plug shall remain readily operable. For rack-mount or installation where plug is not accessible, an all-pole mains switch with a contact separation of at least 3 mm in each pole shall be incorporated into the electrical installation of the rack or building.

If connected to 240V supply, a suitable CSA/UL certified power cord shall be used for this supply.

# IMPORTANT SAFETY INSTRUCTIONS

## ELECTROMAGNETIC COMPATIBILITY

This device complies with part 15 of the FCC Rules and the Product Specifications noted on the **Declaration of Conformity**. Operation is subject to the following two conditions:

- this device may not cause harmful interference, and
- this device must accept any interference received, including interference that may cause undesired operation.

Operation of this unit within significant electromagnetic fields should be avoided.

- use only shielded interconnecting cables.

## SAFETY INSTRUCTIONS

NOTICE FOR CUSTOMERS IF YOUR UNIT IS EQUIPPED WITH A POWER CORD.

WARNING: THIS APPLIANCE SHALL BE CONNECTED TO A MAINS SOCKET OUTLET WITH A PROTECTIVE EARTHING CONNECTION.

THE CORES IN THE MAINS LEAD ARE COLOURED IN ACCORDANCE WITH THE FOLLOWING CODE:

**GREEN AND YELLOW - EARTH      BLUE - NEUTRAL      BROWN - LIVE**

AS COLOURS OF THE CORES IN THE MAINS LEAD OF THIS APPLIANCE MAY NOT CORRESPOND WITH THE COLOURED MARKINGS IDENTIFYING THE TERMINALS IN YOUR PLUG, PROCEED AS FOLLOWS:

- THE CORE WHICH IS COLOURED GREEN AND YELLOW MUST BE CONNECTED TO THE TERMINAL IN THE PLUG MARKED WITH THE LETTER E, OR WITH THE EARTH SYMBOL, OR COLOURED GREEN, OR GREEN AND YELLOW.
- THE CORE WHICH IS COLOURED BLUE MUST BE CONNECTED TO THE TERMINAL MARKED N OR COLOURED BLACK.
- THE CORE WHICH IS COLOURED BROWN MUST BE CONNECTED TO THE TERMINAL MARKED L OR COLOURED RED.

THIS EQUIPMENT MAY REQUIRE THE USE OF A DIFFERENT LINE CORD, ATTACHMENT PLUG, OR BOTH, DEPENDING ON THE AVAILABLE POWER SOURCE AT INSTALLATION. IF THE ATTACHMENT PLUG NEEDS TO BE CHANGED, REFER SERVICING TO QUALIFIED SERVICE PERSONNEL WHO SHOULD REFER TO THE TABLE BELOW. THE GREEN/YELLOW WIRE SHALL BE CONNECTED DIRECTLY TO THE UNITS CHASSIS.

CONDUCTOR		WIRE COLOR	
		Normal	Alt
L	LIVE	BROWN	BLACK
N	NEUTRAL	BLUE	WHITE
E	EARTH GND	GREEN/YEL	GREEN

**WARNING:** IF THE GROUND IS DEFEATED, CERTAIN FAULT CONDITIONS IN THE UNIT OR IN THE SYSTEM TO WHICH IT IS CONNECTED CAN RESULT IN FULL LINE VOLTAGE BETWEEN CHASSIS AND EARTH GROUND. SEVERE INJURY OR DEATH CAN THEN RESULT IF THE CHASSIS AND EARTH GROUND ARE TOUCHED SIMULTANEOUSLY.

## DECLARATION OF CONFORMITY

Manufacturer's Name: DigiTech  
Manufacturer's Address: 10653 South River Front Parkway, #300  
South Jordan, Utah 84095, USA

declares that the product:

Product name: Drop  
  
Product option: all (requires Class II power adapter that conforms to the requirements of EN60065, EN60742, or equivalent.)

conforms to the following Product Specifications:

Safety: IEC 60065 -01+Amd 2  
  
EMC: EN 55022:2006  
EN 55024:1998  
FCC Part 15

Supplementary Information:

The product herewith complies with the requirements of the:  
Low Voltage Directive 2006/95/EC  
EMC Directive 2004/108/EC.  
RoHS Directive 2011/65/EC  
WEEE Directive 2002/96/EC  
EC Regulation 278/2009

With regard to Directive 2005/32/EC and EC Regulation 1275/2008 of 17 December 2008, this product is designed, produced, and classified as Professional Audio Equipment and thus is exempt from this Directive.

Rex C. Reed  
Director, Engineering  
Signal Processing  
10653 South River Front Parkway, #300  
South Jordan, Utah 84095, USA  
Date: February 13, 2014

European Contact: Your local DigiTech Sales and Service Office or

Harman Signal Processing  
10653 South River Front Parkway, #300  
South Jordan, Utah 84095, USA  
Ph: (801) 566-8800  
Fax: (801) 568-7583

# WARRANTY

We at DigiTech® are very proud of our products and back-up each one we sell with the following warranty:

1. Please register online at [digitech.com](http://digitech.com) within ten days of purchase to validate this warranty. This warranty is valid only in the United States.
2. DigiTech warrants this product, when purchased new from an authorized U.S. DigiTech dealer and used solely within the U.S., to be free from defects in materials and workmanship under normal use and service. This warranty is valid to the original purchaser only and is non-transferable.
3. DigiTech liability under this warranty is limited to repairing or replacing defective materials that show evidence of defect, provided the product is returned to DigiTech WITH RETURN AUTHORIZATION, where all parts and labor will be covered up to a period of one year (this warranty is extended to a period of six years when the product has been properly registered through our website). A Return Authorization number may be obtained by contacting DigiTech. The company shall not be liable for any consequential damage as a result of the product's use in any circuit or assembly.
4. Proof-of-purchase is considered to be the responsibility of the consumer. A copy of the original purchase receipt must be provided for any warranty service.
5. DigiTech reserves the right to make changes in design, or make additions to, or improvements upon this product without incurring any obligation to install the same on products previously manufactured.
6. The consumer forfeits the benefits of this warranty if the product's main assembly is opened and tampered with by anyone other than a certified DigiTech technician or, if the product is used with AC voltages outside of the range suggested by the manufacturer.
7. The foregoing is in lieu of all other warranties, expressed or implied, and DigiTech neither assumes nor authorizes any person to assume any obligation or liability in connection with the sale of this product. In no event shall DigiTech or its dealers be liable for special or consequential damages or from any delay in the performance of this warranty due to causes beyond their control.

**NOTE:** The information contained in this manual is subject to change at any time without notification. Some information contained in this manual may also be inaccurate due to undocumented changes in the product since this version of the manual was completed. The information contained in this version of the owner's manual supersedes all previous versions.

## TECHNICAL SUPPORT & SERVICE

If you require technical support, contact DigiTech Technical Support. Be prepared to accurately describe the problem. Know the serial number of your device – this is printed on a sticker attached to the chassis. If you have not already taken the time to register your product, please do so now at [digitech.com](http://digitech.com).

Before you return a product to the factory for service, we recommend you refer to this manual. Make sure you have correctly followed installation steps and operating procedures. For further technical assistance or service, please contact our Technical Support Department at (801) 566-8800 or visit [digitech.com](http://digitech.com). If you need to return a product to the factory for service, you **MUST** first contact Technical Support to obtain a Return Authorization Number.

### **NO RETURNED PRODUCTS WILL BE ACCEPTED AT THE FACTORY WITHOUT A RETURN AUTHORIZATION NUMBER.**

Please refer to the Warranty information, which extends to the first end-user. After expiration of the warranty, a reasonable charge will be made for parts, labor, and packing if you choose to use the factory service facility. In all cases, you are responsible for transportation charges to the factory. If the product is still under warranty, DigiTech will pay the return shipping.

Use the original packing material if it is available. Mark the package with the name of the shipper and with these words in red: DELICATE INSTRUMENT, FRAGILE! Insure the package properly. Ship prepaid, not collect. Do not ship parcel post.

# INTRODUCTION

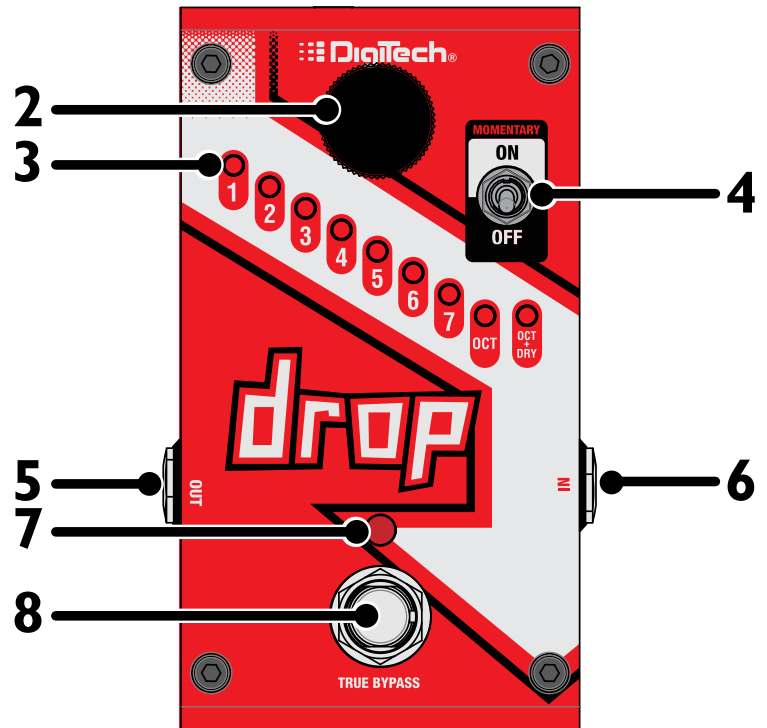
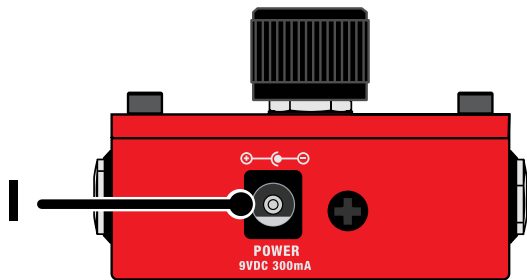
Thanks for choosing the DigiTech® Drop polyphonic pitch shifter pedal. The Drop takes the powerful polyphonic pitch transposing (drop tune) effect from the Whammy™ DT and offers it in a compact, pedalboard-friendly package. Drop offers drop re-tuning of your guitar by transposing your guitar signal down as much as one octave in 1/2 step (1 semitone) intervals.

To use the Drop pedal, enable the effect with the Footswitch (the LED will light when the effect is enabled), turn the Effect Selector knob to select the desired drop tune interval, then set the Momentary switch for the desired operation (see, **“Momentary On/Off Switch” on page 3** for further information on using the Momentary switch).

## FEATURES

- 9 Drop Effect Settings
- Momentary On/Off Switch
- True Bypass
- Compact Design
- Solid Construction
- Included Power Adapter

# USER INTERFACE



## 1. Power Connector

Connect the provided power adapter to this jack. Do not use any power adapter other than the one supplied.

## 2. Effect Selector Knob

Selects which of the Drop effect settings is used when the Drop effect is active.

## 3. Drop Effect Amount LEDs

Shows which Drop effect has been selected using the Effect Selector knob, settings include:

**1** - Transposes guitar signal down 1 semitone.

**2** - Transposes guitar signal down 2 semitones.

**3** - Transposes guitar signal down 3 semitones.

**4** - Transposes guitar signal down 4 semitones.

**5** - Transposes guitar signal down 5 semitones.

**6** - Transposes guitar signal down 6 semitones.

**7** - Transposes guitar signal down 7 semitones.

**OCT** - Transposes guitar signal down 1 octave.

**OCT + DRY** - Transposes guitar signal down 1 octave and adds dry signal.

#### 4. **Momentary On/Off Switch**

Selects how the Effect footswitch will operate. Setting this switch to “ON” will cause the Effect footswitch to act as a momentary switch (the effect will be enabled only as long as the Effect footswitch is pressed and held, see below note). Setting this switch to “OFF” will cause the Effect footswitch to act as a standard latching on/off switch (the effect will be toggled on and off with each press of the Effect footswitch).

**NOTE:** If the Drop effect is enabled (Effect LED on) before setting the Momentary switch to the “ON” position, the Effect footswitch will bypass the Drop effect when pressed and held. If the Drop effect is disabled (Effect LED off) before setting the Momentary switch to the “ON” position, the Effect footswitch will enable the Drop effect when pressed and held.

#### 5. **Output Jack**

Connect this jack to the input of an amp, input of the next pedal on your pedalboard, or the effects return of an amp effects loop.

#### 6. **Input Jack**

Connect your instrument to this jack.

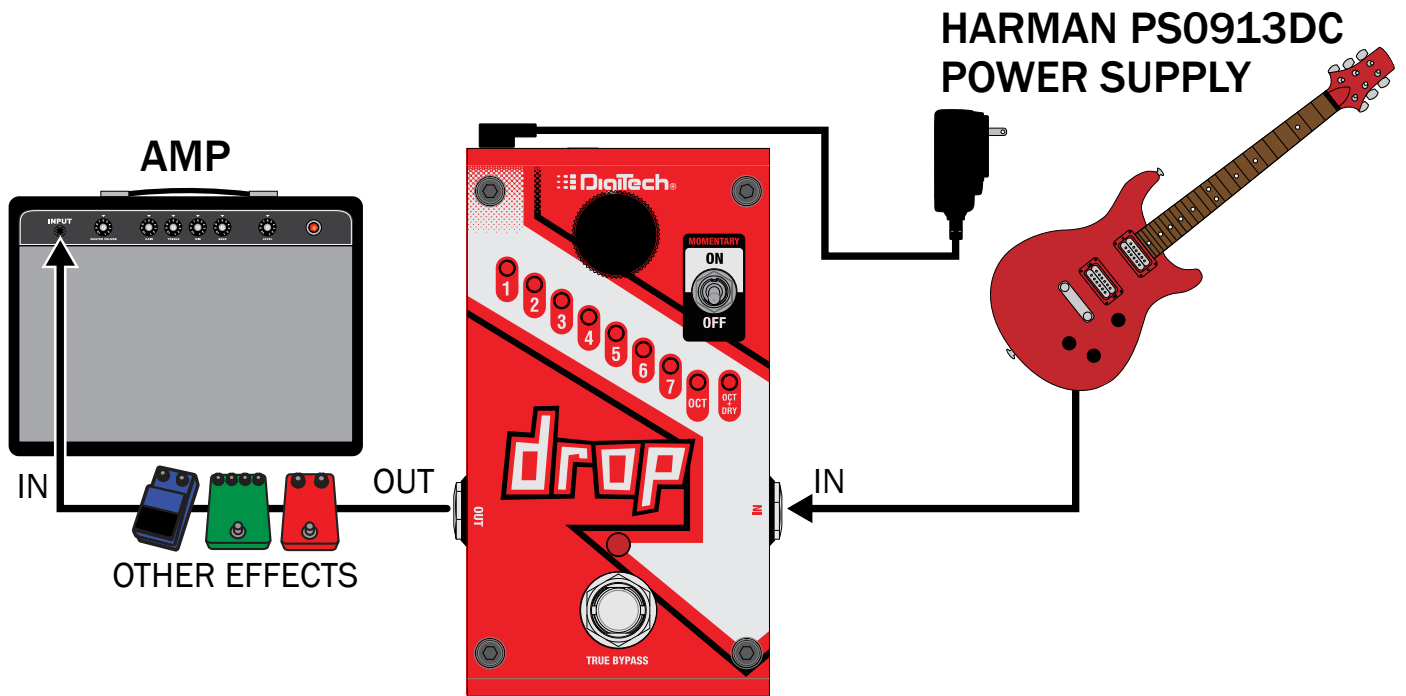
#### 7. **Effect LED**

Shows the on/off status of the Drop effect. This LED lights to indicate the Drop effect is on. When the Drop effect is bypassed, this LED will be off.

#### 8. **Effect Footswitch**

Turns the Drop effect on and off.

## CONNECTION DIAGRAM



**NOTE:** The Drop should be the first pedal in your effects chain. Placing any effect in front of it can impact the pitch shifting performance.



# SPECIFICATIONS

## Electronic

Sample Rate:	44.1 kHz
Frequency Response:	20 Hz-11 kHz (Effect Enabled)
Signal to Noise Ratio:	> -105 dB (A weighted); ref = max level, 22 kHz bandwidth
THD:	0.004% @ 1 kHz; ref = 1 dBu w/ unity gain
A/D/A Conversion:	24-bit

## Effect Range

Drop Tune Range:	1-7 Semitones Down, Octave Down, Octave Down + Dry
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## Input

Input Type:	1/4" Unbalanced TS
Max Input Level:	+5 dBu
Input Impedance:	1 M $\Omega$ (Effect Enabled)
Input Impedance:	True Bypass (Effect Off)

## Output

Output Type:	1/4" Unbalanced TS
Max Output Level:	+10 dBu
Output Impedance:	1 k $\Omega$ (Effect Enabled)
Output Impedance:	True Bypass (Effect Off)

## Physical

Dimensions:	4.75" (L) x 2.875" (W) x 1.75" (H)
Weight:	0.36 lbs.

## Power

Power Consumption:	2.3 Watts (< 250 mA @ 9 VDC)
Power Requirements:	9 VDC External Adapter
Power Adapter:	PS0913DC-01 (US, JA, EU) PS0913DC-02 (AU, UK)



**PHONE:** (801) 566-8800

**WEB:** [digitech.com](http://digitech.com)

**SUPPORT:** [digitech.com/en-US/support](http://digitech.com/en-US/support)

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