

# DEVINE

## DI-P Passive DI box



## User manual

*All information and illustrations shown in this user manual are subject to change without further notice.*

*User manual version: 1.0 Creation date + author initials: 26-01-2016 RV Revision date + author initials:*

# Introduction

Thank you for purchasing this Devine DI-P passive DI box. Before you unpack all the received items, carefully read this manual to become familiar with the functions of this product. Also check the contents of the box to make sure all necessary parts are included. If the DI-P fails to operate properly, or if you have any problems while using it, disconnect it from the signal chain and contact your local dealer for more information and/or help.

## Box contents:

- Devine DI-P passive DI box

## Unit and accessory inspection

- If you suspect that your device is broken or damaged, contact your local dealer or a certified technician to inspect the unit.

*Note: Illustrations shown in this manual may vary from the actual product.*



# DEVINE

## Contact:

Devine pro audio products  
Verrijn Stuartweg 18  
4462 GE Goes  
The Netherlands

*Please do not send any products directly to this address. If you wish to return a product for a refund or repair, please contact your local dealer for an RMA (Return Material Authorisation)*

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# Safety instructions

Every person involved with the installation, operation and maintenance of this device must:

- Be qualified
- Follow the instructions in this manual
- Make sure there is no damage to the device caused by transport. If the device seems damaged from the outside, do not use it and contact your dealer for more information.
- Make sure the device is in perfect condition and safe to operate. Follow the instructions and adhere to the warning notes in this user manual.
- Damage caused by improper use or modifications to the device are not covered by the warranty.
- This device does not have any user-serviceable parts inside. This device must be serviced by qualified technicians.

## Important notes regarding health and safety:

- Never remove any warning or informative labels from the unit.
- Never leave cables lying around.
- Do not open the device and do not modify any hardware or software.
- Do not power the inputs of the fixture with a signal greater than required to work at full performance.
- Use this device indoors only, avoid contact with water, moisture and other liquids. Do not place items filled with liquids on top of the unit.
- Avoid nearby flames or heat sources, do not place this device near flammable liquids, gas or flammable items.
- Always disconnect the device when it is not in use for an extended period or time, when servicing is needed, or when the device needs cleaning.
- Never pull the cable to remove a connector from its socket, as this could lead to damage.
- Never use other types of cables other than those specified in this manual. Do not use defective or malfunctioning cables. Contact your dealer if the included or required cables do not work properly with this device.
- If the device has been exposed to considerable temperature changes (for example, transport from outdoors to indoors), do not activate the device until it has reached room temperature as moisture may have built up inside the unit, which could cause a short-circuit and/or electric shocks.

## Guidelines and types of use:

- This device is intended for use by professionals on stage, in theaters, clubs and in other entertainment venues.
- This device is not suitable for use by children and must always be operated by an adult.
- Only use the device in a suitable environment where it cannot cause any damage. Do not use the product in damp or dusty environments or where permanent damage may occur such as:
  - indoor swimming pools where chlorine is used
  - beaches, where sand and salt are present
  - outdoors
  - indoor areas where intense heat sources are present or where the temperature exceeds levels that are comfortable for humans.
- Avoid impacts and collisions during use and transport. Do not transport the device while in use. Avoid brute force during the installation and operation of this device.
- Familiarise yourself with the functions of the device before use. Do not allow operation of the device by unskilled or unqualified people.
- Use of the device in ways other than described in this user manual may cause damage and/or injury. Devine cannot be held responsible for any damage or injury caused by improper use.

## Storage and transport:

- This device is intended for mobile use. Always transport the device in the original packaging or in a flight case with a proper fitted foam inlay.

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- This device is not intended for permanent (24/7) use. Regular breaks in operation will ensure the expected lifespan of this device remains unchanged. Disconnect the device when not in use.
- If you do not plan to use the unit for an extended period of time, disconnect it and store it in a dust-free environment.
- Do not expose the device to extreme temperature differences.

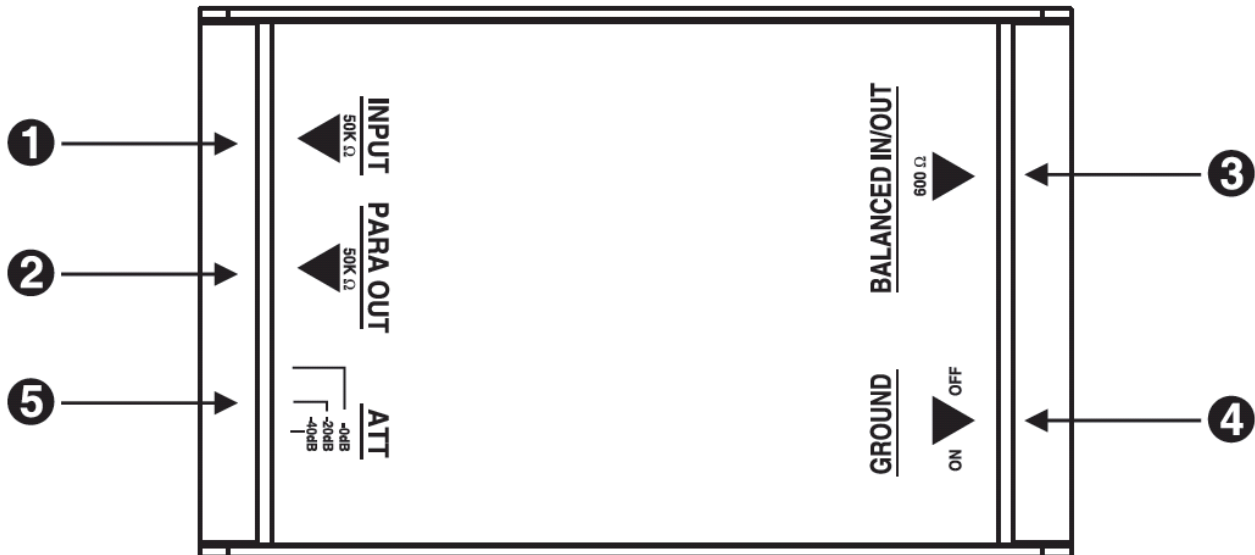
**Housing:**

- Inspect the housing of the device frequently and always before use. Severe dents, cracks and missing screws should be avoided at all costs. Do not use the device when the housing is not in optimal condition. Contact your dealer or a skilled technician when in doubt about the state of the device.
- Check the fixture and screws for corrosion. Corrosion should not be present on the fixture. Contact your dealer or a skilled technician if corrosion is found on the fixture.
- Every power or signal chassis/connector should be attached securely and tightly. Do not use the device when connectors are loose.
- Avoid the buildup of dust and dirt. Clean the exterior of the fixture once a month with a dry or damp cloth. If you use the device intensively, increase cleaning frequency.

**Symbol clarification:**

	<p><b>WEEE:</b> Dispose of this product properly. This product is part of the WEEE directive – the Waste Electrical and Electronic Equipment directive. The requirements stated in this directive apply to all manufacturers and producers of electronic equipment in the EU.</p> <p>Do not dispose of this product together with regular household trash. Contact your local government for more information about proper disposal and recycling of electronic products in your region. By recycling this product properly after use, we can work together to enjoy these products and protect our environment from pollution.</p>
	<p><b>CE:</b> The CE mark indicates that the product complies with applicable European directives and regulations.</p>
	<p><b>Indoor use only:</b> This device is designed to be used indoors only. The maximum ambient temperature should not exceed 40 degrees Celsius (104 degrees Fahrenheit).</p>

# Overview and use of the device



1. 6.35 mm TS jack input, 50 kilohm impedance
2. 6.35 mm TS jack link output (parallel), 50 kilohm impedance
3. balanced 3-pin XLR output, microphone signal level
4. ground lift switch
5. attenuator (-0 dB, -20 dB, -40 dB)

## Use of the device

The Devine DI-P is a passive DI box, used to transform unbalanced high impedance audio signals to balanced audio signals. This makes the signal more suitable to travel long distances to mixing consoles or audio interfaces. By doing this, the chance of audio disturbance and unwanted noise is decreased significantly.

The Devine DI-P is a passive unit and requires no additional power source. DI boxes come in several varieties, for example powered by a 9 Volt DC battery, or by an additional power adapter. The DI-P uses passive internal electronics and components to transfer any unbalanced signal to a balanced signal.

The DI-P is equipped with a 6.35 mm TS jack input with 50 kilohm impedance, suitable for devices such as electric guitars, (mono) keyboard signals, etc.

A parallel output is available to transfer the signal to other equipment. For example, if you wish to connect a keyboard but meanwhile also use a stage monitor, the link output could be sent directly to a stage monitor for the keyboard player.

The various signal sources, such as guitars or keyboards, also feature other signal impedances. To compensate for the different input impedances, an attenuator is provided which can decrease the incoming signal. Choose between an attenuation of -0 dB, -20 dB or -40 dB.

When connecting the balanced output to your mixing console, audio interface or other processing equipment, you will almost instantly see which attenuation works best.

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Devine recommends to start with -40 dB attenuation. This way, you will start with the least powerful volume level possible and you can see on your mixing console if the signal is strong enough. If not, you can switch the attenuation to -20 dB and see if the signal is strong enough, but not overpowering the inputs on your processing equipment. If this attenuation also won't provide adequate signal levels, the -0 dB attenuation can be chosen.

Some equipment, such as the power adapters from keyboards, link-connected amplifiers or the pickups of electric guitars, can cause unwanted noise and hums. To eliminate these problems, a ground lift is available. The ground lift disconnects the connection between the ground of the balanced signal, the housing and the ground of the incoming and outgoing input/link signals. If no audio-problems are present, the ground connection does not need to be lifted.

The balanced output sends out a balanced microphone level signal, suitable for connecting to the microphone inputs of a PA-mixer, audio interface or other equipment provided with microphone preamp circuits.

## DI box troubleshooting

If you encounter any problems with your DI box, consult this troubleshooting section for possible solutions. If this troubleshooting section does not solve your problem, contact your dealer for more information and help.

This troubleshooting section contains the most frequently occurring problems and is not a complete collection of possible faults, defects and solutions. This troubleshooting section applies to DI boxes. It is possible that the problems, causes and solutions described below do not apply to your situation as product details may vary from product to product.

Problem	Possible Cause	Solution
Incoming sound level on my mixer/interface is too low	Source signal output too low	Increase source signal output level
	Attenuation too high	Decrease attenuation to -20 dB or -0 dB
Incoming sound level on my mixer/interface is too high	Source signal output too high	Decrease source signal output level
	Attenuation too low	Increase attenuation to -20 dB or -40 dB.
Strange buzzing or humming noise present in the sound	Ground problem	Activate ground lift switch
No sound entering my mixer / interface at all	Defective XLR cable	Replace XLR cable and check again if there is still no signal present
	Defective instrument cable	Replace instrument cable and check again if there is still no signal present
	Sound source does not produce sound	Check if the sound source is producing any sound at all by connecting a speaker or headphones

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# Technical specifications

- passive DI box
- sturdy metal housing
- low-profile design
- no batteries or power source required
- transforms unbalanced, high-impedance audio signals to microphone level balanced audio signals
- 6.35 mm TS jack unbalanced input
- 6.35 mm TS jack unbalanced link output (parallel)
- balanced 3-pin XLR output
- input impedance: 50 kilohms
- output impedance: 600 ohms
- built-in attenuator switch: -0 dB, -20 dB, -40 dB
- built-in ground lift switch
- S/N ratio: > 95 dB
- frequency response: 15 Hz – 30 kHz
- dimensions: 127 x 74 x 45 mm
- weight: 0.43 kg
- ta max.: 40 degrees Celsius



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