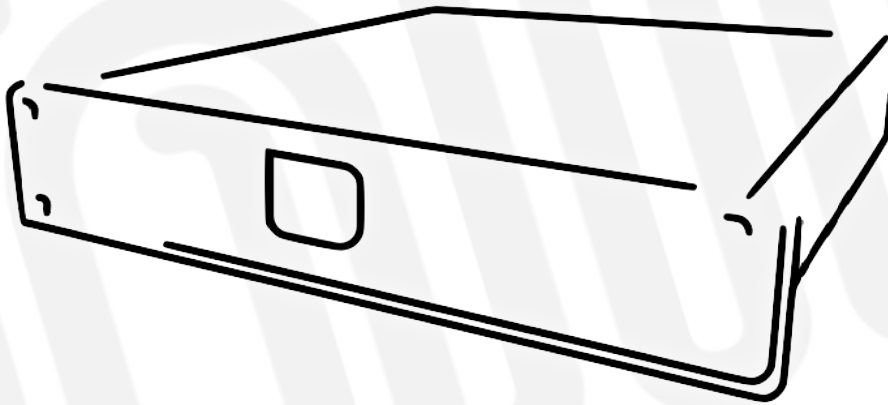


Hill



Hill M-Series

Hi-Z Drive Processing Unit

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Packaging

Carefully open the shipping carton and check for any noticeable damage. Every Hill DPU is tested and inspected before leaving the factory and should arrive in perfect condition. If found to be damaged, notify the shipping company immediately. Only the consignee may institute a claim with the carrier for damage incurred during shipping. Be sure to save the carton and packing materials for the carrier's inspection.

It is also advisable, to save the carton and packing material, even if the DPU is undamaged. Should you ever need to ship the DPU, use the original packing.

Warnings

Read this before you are operate your DPU:

- Do not use this DPU if the power cord is broken or frayed.
- Always operate the unit with the chassis ground wire connected to the electrical safety earth.
- Do not parallel or series connect a DPU output, with any other DPU output.
- Do not connect the DPU output to any other voltage source, such as battery, mains source or power supply, regardless of whether the DPU is turned on or off.
- Do not run the output of any DPU back into another channels input.
- Do not block the air intake or exhaust ports.
- Do not operate the DPU near heat producing devices such as radiators, stoves etc.
- Do not spill water or other liquids into or on the unit.
- Do not operate the DPU if it is standing (or is suspected to be) in liquid.
- Do not remove top or bottom covers. Removal of the cover will expose hazardous voltages. There are no user serviceable parts inside and removal may void warranty.
- Keep this manual for future reference.

User Responsibility

Speaker Damage

This DPU is only designed for Hill M-Series Hi-Z Speaker Systems.

Your DPU is very powerful and can be potentially dangerous to both loudspeakers and humans alike. Hill loudspeakers can be damaged or destroyed if continually overdriven.

Speaker Output Hazard

DPUs are capable of producing hazardous output voltages. To avoid electrical shock, do not touch any exposed speaker wiring, while the DPU is operating. See outputs section about proper connection of speakers.

Radio Interference

This product complies with the limits for the European Electro Magnetic Compatibility (EMC) directive. These limits are designed to provide reasonable protection against harmful interference between electrical equipment. However, there is no guarantee of no interference even if the DPU is EMC approved.

If the DPU causes interference (which can be easily determined by turning the DPU on and off) the user can correct the interference by one or more of the following steps:

1. Increase the proximity between the equipment.
2. Connect the AC cord to an outlet on a different circuit from that to which the affected unit is connected.
3. If a radio receiver has interference (normally amplitude modulation) reorient the antenna.
4. Check if the affected unit complies with the EMC limits for immunity (CE-labelled).
If not, address the problem with the manufacturer or supplier.

All electrical products sold in the EC must be approved for immunity against electromagnetic fields, high voltage flashes, and radio interference.

User Operation

User Controls

The power switch for the DPU is located on the rear of the unit.

There are no other user operated controls on this product, it is fully optimised for use with the Hill M10 Hi-Z system.

Simply connect each output to a Hill M10 Hi-Z speaker system.



Hill M-Series Hi-Z Drive Processing Unit Front Panel

Fan Operation

The cooling system is actively controlled via onboard audio sensing circuitry. When audio drive to the DPU is low the cooling fan will operate slowly, as audio drive increases so will the fan speed. If a high temperature condition occurs the fan will also be triggered.

Peak/On LED

When the unit is switched on and operational the Peak/On LED will be lit in 'green'.

As the unit approaches maximum output the LED light will dim to 'black'. When the unit reaches peak, the LED will be lit in 'red'. **Warning** - regular/prolonged use of the DPU whilst the Peak LED is lit in 'red' will result in damage to the DPU and speaker system.

Maintenance

The fan filter requires regular cleaning/replacement to ensure a free flow of air. This is mounted externally on the rear of the unit. Cleaning intervals will depend on the condition of the air being drawn into the unit. Typically the intervals will be between 3 and 6 months. Ensure the filters are dry before reinstalling them

Do not operate the DPU without the air inlet filter being installed.

Input Connectors

There are two balanced line-level input connectors located on the rear panel:

Neutrik female 3pin XLR (pin2 +ve)

1 x Mid-Frequency Drive (LF)

1 x High-Frequency Drive (HF)

Output Connectors

There are two balanced line-level output connectors located on the rear panel. This enables a 'daisy chain' of upto 12 units:

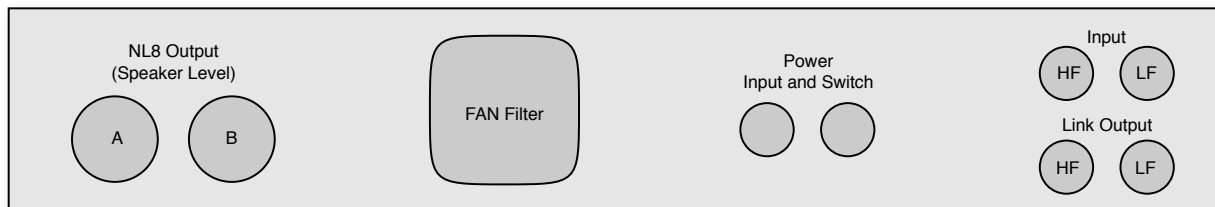
Neutrik male 3pin XLR (pin2 +ve)

1 x Mid-Frequency Drive (LF)

1 x High-Frequency Drive (HF)

There are two NL8 Hi-Z Speaker output connectors located on the rear panel. These are designed to connect to 1 x M10 Hi-Z per NL8 output connector. **Warning** - Do not daisy chain, or split the speaker level output, or connect it to another DPU.

NL8 pin out: 1+/1-:MF outer 2+/2-:MF inner 3+/3-:N/A 4+/4-:HF



Hill M-Series Hi-Z Drive Processing Unit Rear Panel

Cooling and Installation

Rack Mounting

The Hill M-Series DPU must be supported from both the front and rear of the chassis. Rack mount adaptors are provided for this purpose.

Please note that consideration to air inlet/outlet must be taken to allow adequate cooling for the DPU.

Cooling

The air cooling inlet is at the rear of the unit, do not block or obstruct this. Ensure a supply of clean cool air is available to draw into the DPU.

The air outlet is located down either side of the DPU. Ensure this is free of direct obstruction. Hill recommend that a 1U venting gap is left above each DPU.

Specification

Voltage:	240v (+/- 10v)
Max Operating Current:	6.5A (<i>Note: Surge on switch-on</i>)
Output power into Hi-Z configured speaker system:	1100W + 400W
Dimensions:	H (2U): 88mm
	W (19"): 450mm
	Depth: 500mm
Weight:	13.6Kg

FAQ and Trouble Shooting

Please contact your distributor should you encounter any problems or difficulties.