



**AUDIOM Distortion-Sustain Guitar Unit Effect Pedal**

**Product Name: Distortion AM DS1 **

**Product Description**

The AudioM Distortion AM DS1  is a guitar unit effect pedal which delivers distortion and sustain to the guitar signal applied to its input. This product is handmade by AUDIOM Amplification and is designed and manufactured in pure analog audio technology. Using FETs as an active elements and input buffers, in a combination with all other passive elements, this pedal delivers high quality, modern and yet vintage distorted shape of the guitar sound.

The AM DS1 pedal has two modes of operation, which actually means that it contains two effect units placed in one box. The 2 modes of the AM DS1 pedal are simply named as Mode A and Mode B. The Mode A uses classic symmetric clipping technique, while the Mode B uses very innovative AudioM unique dynamic and yet symmetric clipping technique, which brings new spirit in the guitar distortion effect sounds.

The other four controls on the AM DS1 pedal are user adjustable by rotary potentiometers, allowing the user to adjust the basic settings of the Distortion/Sustain unit in a way to match the user's desired sound. These four controls sets the Distortion level, Tone, Sustain and master Level of the output signal delivered from the AM DS1 pedal unit.

**Product Features**

The AudioM Distortion AM DS1  is designed as classic guitar effect pedal, placed in high quality aluminum enclosure box for easy of use with leg and for long-lasting heavy duty use. The pedal features:

- DISTORTION Knob Control;
- TONE Knob Control;
- SUSTAIN Knob Control;
- LEVEL Knob Control;
- MODE Changing Switch (A/B);
- BYPASS Switch (true bypass);
- Green LED On/Off Indicator;
- IN/OUT Connectors 6.35mm standard mono;
- DC Power Supply Connector (2.1mm center-negative);

**Note:** AM DS1 Pedal should be power supplied by external adapter via the DC Connector 2.1mm standard and center-negative polarity. The AudioM specified DC power supply voltage is 9 V and AudioM suggest that the user connects the pedal to the external, stable regulated, filtered and isolated DC power supply, thus ensuring the manufacturer declared needs for proper and maximum performance of the pedal. Also, the AM DS1 pedal doesn't have an option for power supplying via the internal battery placed inside the pedal box. Furthermore, AudioM doesn't suggest using the battery as power supply source, since it will not deliver the full requirements for basic pedal operation and it will affect its performance.

**Product Use & Settings**

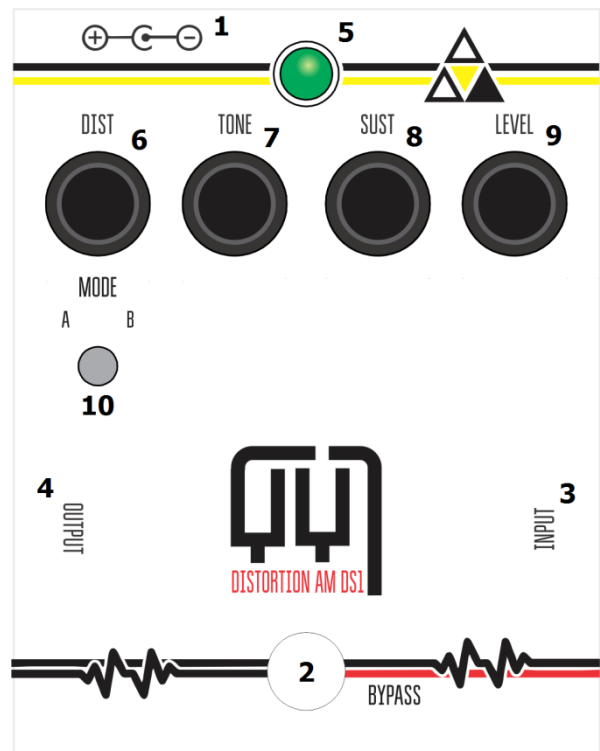
The AudioM Distortion AM DS1  is designed to be easy of use for the guitarist, musical artist. Once the user connects the AM DS1 pedal unit to its signal chain between the electric guitar instrument and the guitar amplifier, while playing test sounds the user can initially adjust the unit by changing the current values of the adjustable parameter settings. After these initial settings of the pedal are done, the user can easily switch the effect unit on and

off, bypassing the signal from distorted to clear guitar sound. Of course, further additional settings are always possible while playing. Also, an important note for AM DS1 pedal is that the user should be aware when switching between modes A and B, since they have different sound levels and mode B is designed to be with higher sound level than mode A. That's why AudioM suggests that the user should first decrease the master level of the pedal for certain amount before switching from mode A to mode B, thus avoiding the higher amp output sound right away after switching to mode B.

**Product Controls & I/O Elements**

The AM DS1 pedal functions/controls description is shown on **Figure 1**. Each input/output element or control is marked with proper number. The description of the elements, according to the marked numbers is as follows:

1. DC Power Supply Connector (2.1mm standard, center-negative);
2. BYPASS Switch (on/off switch, true bypass);
3. INPUT Connector (6.35mm standard, mono);
4. OUTPUT Connector (6.35mm standard, mono);
5. On/Off Indicator (Green LED);
6. DISTORTION Knob Control;
7. TONE Knob Control;
8. SUSTAIN Knob Control;
9. LEVEL Knob Control;
10. MODE Changing Switch (A/B);



**Figure 1: Pedal Unit Controls & I/O Elements**

**Operating the Pedal Unit**

After you have made the necessary connections, you are ready to start the operating of the pedal unit and adjust the controls in order to achieve your desired sound. Before that, it is good practice that you set all the knobs controls flat, which means to turn them half of the rotary path/angle. At this state, the adjustment of the controls, one by one, can start. Here is a short description:

1. Adjust the depth of the distorted sound with the DISTORTION knob. With the zero level of the distortion knob, the signal will be clear, especially in Mode B which provides higher output level.
2. The tone characteristics of the sound can be changed with the TONE knob. This is simple single-band tone control, which at zero level provides dark bass sound because of the high frequency cut

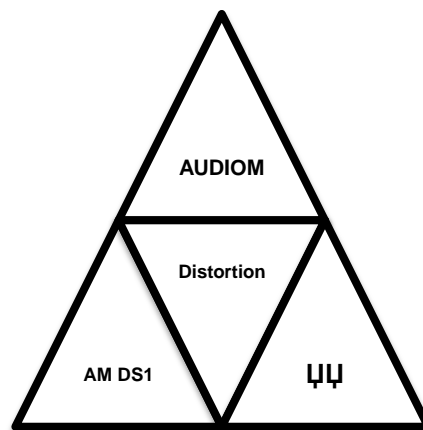
and at maximum level it provides high treble sound because of the low frequency cut. With the control set to half level, the frequency response is almost flat with a little cut of the middle frequencies.

3. The sustain effect of the sound can be easily controlled with the SUSTAIN knob. At zero level, it provides less sustain and at max level the sustain of the overall signal is at highest level.
4. The overall level of the output signal from the pedal unit can be controlled by the LEVEL knob.
5. The MODE switch is for changing between the two modes of the pedal unit. When the switch is in left position, the pedal unit is in Mode A, otherwise, when the switch is in right position, the pedal unit is in Mode B.
6. The BYPASS switch is for switching the pedal unit on and off. While the green LED indicator on the top of the pedal is ON, the pedal unit is running and the guitar signal is passing through it. While the green LED indicator is OFF, then the guitar signal is just bypassed from the pedal input to pedal output. The AM DS1 pedal unit provides true bypass of the signal, which means it does not affect the signal shape at all when it's OFF.

## Product Specifications

AudioM Distortion AM DS1 ٠٠

**Input Impedance:** 469.8 k $\Omega$  (113.44 dB) at 1 kHz;  
**Output Impedance:** 178.5  $\Omega$  (45.03 dB) at 1 kHz;  
**Nominal Output Level:** 32.4 dB (all flat controls);  
**Noise Spectral Density:** 2.53  $\mu$ V/Hz at 1 kHz;  
**Total RMS Noise:** 218.78  $\mu$ V (in band from 20 Hz to 20 kHz);  
**Controls:** Bypass Switch, DIST Knob, TONE Knob, SUST Knob, LEVEL Knob, MODE Switch;  
**ON/OFF Indicator:** Green LED;  
**Connectors:** INPUT Connector, OUTPUT Connector, AC Adaptor Connector (9 V DC);  
**Power Supply:** External (not included);  
**Current Draw:** 4 mA (OFF), 14 mA (ON) at 9 V DC;  
**Dimensions:** W 95 x D 120 x H 55 [mm];  
**Weight:** 360 g (+/- 5 g);  
**Accessories:** User's Manual;



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## PRODUCT WARRANTY

**AUDIOM Amplification provide the warranty of its products in a period of 5 years.**

The period of 5 years warranty starts from the date when the customer buy this product from the store in one of the official AudioM dealers. The dealer will provide to the customer an **Warranty Declaration List** as official document in which the date of warranty start will be declared. In the same document, the warranty conditions are listed and described in details. In order to use the warranty of the product in case of any problems founded with it, the customer should deliver its Warranty Declaration List and the product to the dealer where he buy it and the rest of the procedure will be taken by the dealer itself. Therefore, it is important for the customer to keep this document safe.



**MEM**

**Mihail Electronics & Music Ltd.**  
(long-term development)

**AUDIOM Amplification keeps the right of changing the product specifications and features without prior notice to the end user in interest of product development.**

Thank You for using AUDIOM.