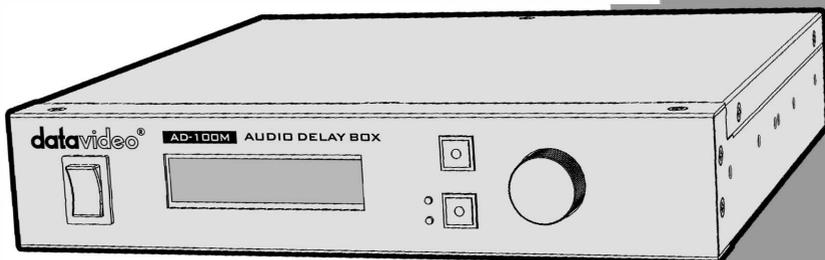


# datavideo



## AUDIO DELAY BOX AD-100M Quick Start Guide

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# Warnings and Precautions

1. Read all of these warnings and save them for later reference.
2. Follow all warnings and instructions marked on this unit.
3. Unplug this unit from the wall outlet before cleaning. Do not use liquid or aerosol cleaners. Use a damp cloth for cleaning.
4. Do not use this unit in or near water.
5. Do not place this unit on an unstable cart, stand, or table. The unit may fall, causing serious damage.
6. Slots and openings on the cabinet top, back, and bottom are provided for ventilation. To ensure safe and reliable operation of this unit, and to protect it from overheating, do not block or cover these openings. Do not place this unit on a bed, sofa, rug, or similar surface, as the ventilation openings on the bottom of the cabinet will be blocked. This unit should never be placed near or over a heat register or radiator. This unit should not be placed in a built-in installation unless proper ventilation is provided.
7. This product should only be operated from the type of power source indicated on the marking label of the AC adapter. If you are not sure of the type of power available, consult your Datavideo dealer or your local power company.
8. Do not allow anything to rest on the power cord. Do not locate this unit where the power cord will be walked on, rolled over, or otherwise stressed.
9. If an extension cord must be used with this unit, make sure that the total of the ampere ratings on the products plugged into the extension cord do not exceed the extension cord's rating.
10. Make sure that the total amperes of all the units that are plugged into a single wall outlet do not exceed 15 amperes.
11. Never push objects of any kind into this unit through the cabinet ventilation slots, as they may touch dangerous voltage points or short out parts that could result in risk of fire or electric shock. Never spill liquid of any kind onto or into this unit.
12. Except as specifically explained elsewhere in this manual, do not attempt to service this product yourself. Opening or removing covers that are marked "Do Not Remove" may expose you to dangerous voltage points or other risks, and will void your warranty. Refer all service issues to qualified service personnel.
13. Unplug this product from the wall outlet and refer to qualified service personnel under the following conditions:
  - a. When the power cord is damaged or frayed;
  - b. When liquid has spilled into the unit;
  - c. When the product has been exposed to rain or water;
  - d. When the product does not operate normally under normal operating conditions. Adjust only those controls that are covered by the operating instructions in this manual; improper adjustment of other controls may result in damage to the unit and may often require extensive work by a qualified technician to restore the unit to normal operation;
  - e. When the product has been dropped or the cabinet has been damaged;
  - f. When the product exhibits a distinct change in performance, indicating a need for service.

## Disposal



### **For EU Customers only - WEEE Marking**

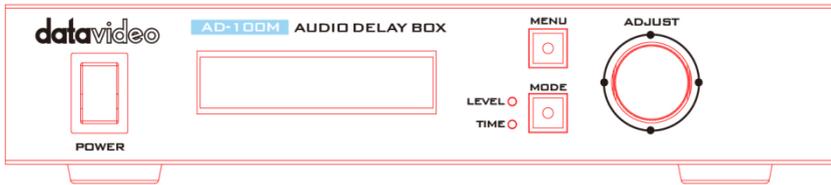
This symbol on the product indicates that it will not be treated as household waste. It must be handed over to the applicable take back scheme for the recycling of Waste Electrical and Electronic Equipment. For more detailed information about the recycling of this product, please contact your local Datavideo office.

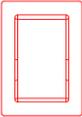
# Packing List

The following items should be in the box. If any items are missing please contact your supplier.

Items	Description	Q'ty
1	AD-100M	1
2	Accessory List	1
3	AD-100M Quick Start Guide	1

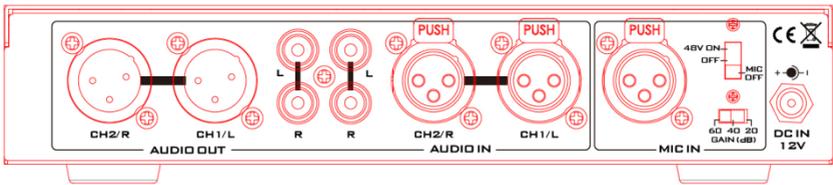
## Front Panel

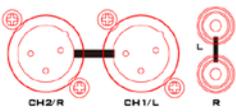
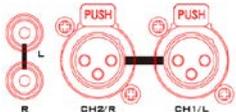


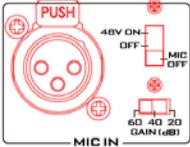
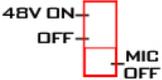
 <p><b>POWER</b></p>	<p><b>Power On/Off Switch</b></p> <p>Switches the power On / Off</p>
 <p><b>MENU</b></p>	<p><b>Menu</b></p> <p>This switch allows access to the 9 mode system settings.</p>
 <p><b>LEVEL</b> ○</p> <p><b>TIME</b> ○</p> <p><b>MODE</b></p>	<p><b>Mode</b></p> <p>Select <b>LEVEL</b> or <b>TIME</b> information on LCD Display.</p> <p><b>LEVEL</b> will display the audio output dBu level.</p> <p><b>TIME</b> will display the AUDIO DELAY &amp;</p>

	ATTENUATION settings.
	<p><b>Adjust</b></p> <p>The <b>ADJUST</b> knob is for mode select and value adjustment.</p> <p>It can be rotated to display the correct menu option or value and then pressed in to select or confirm a chosen value.</p>

## Rear Panel



	<p><b>Audio Out</b></p> <p>2 channels of XLR balanced audio output. 2 channels of RCA unbalanced audio output.</p> <p><i>For reference: 4dBu (XLR) = -10dBV (RCA)</i></p>
	<p><b>Audio IN</b></p> <p>2 channels of XLR balanced audio input. 2 channels of RCA unbalanced audio input.</p>
	<p><b>DC IN Socket</b></p> <p>Connect the supplied 12V / 1.5A (18W) PSU to this socket. The connection can be secured by screwing the outer fastening ring of the DC In plug to the socket.</p>

	<p><b>MIC IN</b></p> <p>1 Channel of XLR balanced MIC input.</p>
	<p><b>MIC Switch</b></p> <p>MIC OFF / 48V (ON / OFF)</p>
	<p><b>Gain</b></p> <p>Three levels of MIC gain: 20/40/60 dB</p>

## MENU Settings

***N.B. The unit will automatically exit the MENU settings mode if it is left idle for 12 seconds or more.***

### 1. AUDIO\_DELAY

This setting switches the audio delay function on or off.

- Press the **MENU** button to enter the system configuration settings.
- The cursor will flash at the beginning of this menu option.
- Press **MENU** button again to move the flashing cursor to the setting position.
- Turn the **ADJUST** knob to select the setting audio delay **ON** or **OFF**.
- Press the **ADJUST** knob in to save or confirm the chosen setting.
- The flashing cursor will return to the beginning of this menu option.
- Rotate the **ADJUST** knob to choose another menu option or press the mode button.

### 2. DELAY\_TIME

This setting adjusts the audio delay in 10 millisecond (ms) increments to a maximum delay of 700ms.

***NB: 1000ms = 1 second      1 frame PAL = 40ms      1 frame NTSC = 33.333'ms***

- Press the **MENU** button to enter the system configuration settings.
- Turn the **ADJUST** Knob to select **DELAY\_TIME** mode.
- The cursor will flash at the beginning of this menu option.
- Press **MENU** button again to move the flashing cursor to the setting position.

- Turn the **ADJUST** knob to select the **DELAY\_TIME** setting value from **0 ~ 700m SEC.**
- Press the **ADJUST** knob in to save or confirm the chosen setting.
- The flashing cursor will return to the beginning of this menu option.
- Rotate the **ADJUST** knob to choose another menu option or press the mode button.

### 3. ATTENUATION

This setting adjusts how loud or quiet the audio will be at the output. **0dB=Loud** and **-60dB=Quiet.**

**NB:** The AD-100M is an Audio Delay device and it can also be used as a Tone Generator. **Please DO NOT connect the AD-100M directly to a headset or set of speakers it should not be used like an Audio AMP.**

- Press the **MENU** button to enter the system configuration settings.
- Turn the **ADJUST** Knob to select **ATTENUATION** setting.
- The cursor will flash at the beginning of this menu option.
- Press **MENU** button again to move the flashing cursor to the setting position.
- Turn the **ADJUST** knob to select the **ATTENUATION** setting value from **0 ~ - 60 dB.**
- Press the **ADJUST** knob in to save or confirm the chosen setting.
- The flashing cursor will return to the beginning of this menu option.
- Rotate the **ADJUST** knob to choose another menu option or press the mode button.

**N.B. The unit will automatically exit the MENU settings mode if it is left idle for 12 seconds or more.**

### 4. TONE\_OUT

This setting switches the **TONE\_OUT** function on or off.

- Press the **MENU** button to enter the system configuration settings.
- Turn the **ADJUST** Knob to select **TONE\_OUT** setting.
- The cursor will flash at the beginning of this menu option.
- Press **MENU** button again to move the flashing cursor to the setting position.
- Turn the **ADJUST** knob to change the **TONE\_OUT** setting between **ON** or **OFF.**
- Press the **ADJUST** knob in to save or confirm the chosen setting.
- The flashing cursor will return to the beginning of this menu option.
- Rotate the **ADJUST** knob to choose another menu option or press the mode button.

**N.B. The test tone will be output at the level set within the TONE\_LEVEL menu option. This test tone will also override any audio source already being fed through the AD-100M.**

## 5. TONE\_MODE

This setting allows the 1 KHz test tone to be switched on or muted.

- Press the **MENU** button to enter the system configuration settings.
- Turn the **ADJUST** Knob to select **TONE\_MODE** setting.
- The cursor will flash at the beginning of this menu option.
- Press **MENU** button again to move the flashing cursor to the setting position.
- Turn the **ADJUST** knob to change the **TONE\_MODE** setting between **MUTE** or **1KHZ**.
- Press the **ADJUST** knob in to save or confirm the chosen setting.
- The flashing cursor will return to the beginning of this menu option.
- Rotate the **ADJUST** knob to choose another menu option or press the mode button.

***N.B. The MUTE value will silence the test tone but will not restore any audio source being fed into the AD-100M. Please set the TONE\_OUT menu option to OFF to switch back to an audio input source instead.***

## 6. TONE\_LEVEL

This setting adjusts how loud or quiet the test tone will be at the output.

**+26dBu=VERY Loud** and **-34dBu=Quiet**.

- Press the **MENU** button to enter the system configuration settings.
- Turn the **ADJUST** Knob to select **TONE\_LEVEL** setting.
- The cursor will flash at the beginning of this menu option.
- Press **MENU** button again to move the flashing cursor to the setting position.
- Turn the **ADJUST** knob to select the **TONE\_LEVEL** setting value from **+26 ~ - 34 dBu**.
- Press the **ADJUST** knob in to save or confirm the chosen setting.
- The flashing cursor will return to the beginning of this menu option.
- Rotate the **ADJUST** knob to choose another menu option or press the mode button.

***N.B. The unit will automatically exit the MENU settings mode if it is left idle for 12 seconds or more.***

## 7. RESET ALL

***Please remove all output connections before using this feature.***

***This option restores the factory defaults which may be louder than expected.*** Please review and adjust the default menu settings before re-connecting any output connections on the AD-100M rear panel.

***NB: The AD-100M is an Audio Delay device and it can also be used as a Tone Generator. Please DO NOT connect the AD-100M directly to a headset or***

***set of speakers it should not be used like an Audio AMP.***

- Press the **MENU** button to enter the system configuration settings.
- Turn the **ADJUST** Knob to select the **RESET ALL** setting.
- The cursor will flash at the beginning of this menu option.
- Press **MENU** button again to move the flashing cursor to the setting position.
- Turn the **ADJUST** knob to change the **RESET ALL** setting from **NO** to **YES**.
- Press the **ADJUST** knob in for 2 seconds, the system will return to the factory defaults.
- The setting will return to **NO**.
- Press the **MENU** or **MODE** button to start to review the units default settings.

Factory Default Settings	
<b>AUDIO_DELAY</b>	<b>OFF</b>
<b>DELAY_TIME</b>	<b>10ms</b>
<b>ATTENUATION</b>	<b>-0dB</b>
<b>TONE_OUT</b>	<b>OFF</b>
<b>TONE_MODE</b>	<b>1KHz</b>
<b>TONE_LEVEL</b>	<b>+4dBu</b>

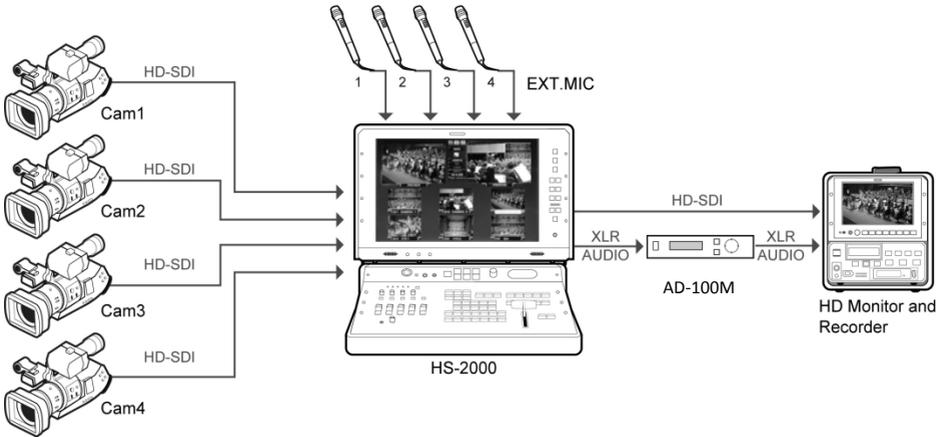
**8. SOFTWARE VERSION**

- Press the **MENU** button to enter the system configuration settings.
- Turn the **ADJUST** knob to select **SOFTWARE VERSION**.
- The firmware version of the AD-100M is displayed for 12 seconds.

**9. ESCAPE**

- After reviewing or changing the system configuration settings.
- Turn the **ADJUST** knob to select **ESCAPE**.
- Press the **ADJUST** knob in to exit the system configuration settings mode.
- Alternatively press the **MODE** button to exit the system configuration settings instantly.

## Example Setup



## Specifications

<b>Audio inputs</b>	1x Microphone Input, XLR connectors
	2 x balanced stereo audio, XLR connectors
	2 x unbalanced stereo audio, RCA / Phone sockets
<b>Audio Output</b>	2 x balanced stereo audio, XLR connectors
	2 x unbalanced stereo audio, RCA / Phone sockets
<b>Audio Spec</b>	Bandwidth 20~20KHz < +/- 3dB
	S/N Ratio > 70 dB
	T.H.D. < 0.1%
<b>Operating Temperature</b>	0°C to 40°C (32°F to 102°F)
<b>Humidity</b>	10% to 90% (non-condensing)
<b>Dimension &amp; Weight</b>	205mm (W) x 235mm (D) x 45mm (H) / 2.8 lbs/ 1.3 Kgs
<b>Power</b>	DC 12V / 1.5A (18W)

