## Digital & Analog Audio Delayer

DLA180 one is for analog audio and digital audio delay processing of professional products. Delay time can be 0-180 seconds or 0-9999 milliseconds, and with external synchronization correction. Which uses digital signal processing chip as the core operations, the indicators in line with international standards; has multiple emergency function keys for different unexpected situations can be addressed urgently. Can be used in radio and television broadcasting, live, production and other occasions. The product is fully functional, stable and reliable performance, upgrade and maintenance convenient.

➢ Delay time from 0~180 seconds, or 0~ 9999 milliseconds adjustment.

➢ Digital & Analog audio outputs simultaneously transform.

➢ Digital audio processing complies AES3-1992 standard.

➢ Delay creation / removal to support Silent mode, Playback mode, Backup broadcast mode.

➢ Multiple protection modes,including:emergency release delay time, Reading typo correction, cough protection, mute, key bypass.

➢ Support the internal clock and the external reference clock synchronization.

➢ With power-down memory function.

➢ Double switch and double power supply redundancy design, support power off bypass.



## Analog Audio Index

| | |
|---|---|
| Sampling Rate | 32K~192K |
| Audio input level | +24dBu |
| Dynamic Range | >110dB |
| Signal to noise ratio | >85dBu (A weighted） |
| THD+N | <0.005%@1KHz,-3dBFS |
| Frequency Response | 20Hz to 20kHz, ±1dB at 48K sampling |
| Input impedance | >10KΩ XLR (Balanced) |

## Digital Audio Index

| | |
|---|---|
| Follow the standard | AES3-1992 |
| Sampling Rate | 32K~192K |
| Dynamic Range | >128dB |
| Audio processing | 24-bit |
| AES output | 110Ω XLR (Balanced) |

## Digital & Analog Audio Delayer

# DLA180 Series

## Front Panel Description



① ② ③ ④ ⑤ ①
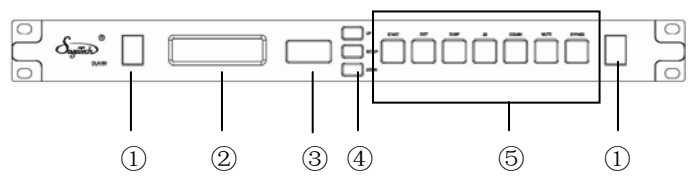
| ① | Power & Power Light | |
| --- | --- | --- |
| ② | LCD | Displaying information. |
| ③ | Digital Tube | Shows the delay time or the menu number. |
| ④ | Function setup Button | |
| | UP | Add or step to the next command line. |
| | SETUP | Enter the setup menu or OK. |
| | DOWN | Subtract or step to the previous command line. |
| ⑤ | Special Function Button | |
| | START | Start delay。 |
| | EXIT | Exit delay. |
| | DUMP | Emergency release. |
| | 2S | Depending on the setting for 2 to 8 seconds reading typo protection. |
| | COUGH | Cough protection. |
| | MUTE | Muted. |
| | BYPASS | Bypass button. |

## Ordering information

| DLA180-A Series | Support analog audio, second precision adjustment. |
| --- | --- |
| DLA180-AD Series | Support Digital & analog audio, second precision adjustment. |

Note: the above series products are all have a delay of 60 seconds, 120 seconds, 180 seconds.

| DLA180-AM | Support analog audio, millisecond precision adjustment. |
| --- | --- |
| DLA180-ADM | Support Digital & analog audio, millisecond precision Adjustment. |

## Back Panel Description



① ② ③ ④ ⑤ ⑥ ①
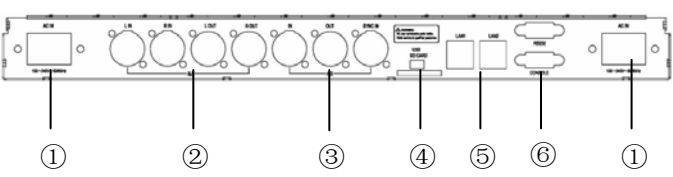
| ① | Power Supply Interface | |
| --- | --- | --- |
| ② | Analog Audio Interface (XLR) | |
| | L IN | Analog audio input (left channel) |
| | R IN | Analog audio input (right channel) |
| | L OUT | Analog audio output (left channel) |
| | R OUT | Analog audio output (right channel) |
| ③ | Digital Audio Interface （AES） | |
| | IN | Digital audio input |
| | OUT | Digital audio output |
| | SYNC IN | External synchronization clock input interface. |
| ④ | Storage Device Input Interface (options) | |
| | USB | USB input (Backup). |
| | SD CARD | SD card input (Backup). |
| ⑤ | Network interface (options) | |
| | LAN 1 | LAN input (Backup). |
| | LAN 2 | Network interface (Remote control) |
| ⑥ | Remote control interface (options) | |
| | RS232 | Serial ports input(Backup). |
| | CONSOLE | Serial ports interface(Remote control). |

## Physical Features & Environmental Req.

| AC Input | 220V/50Hz |
| --- | --- |
| Power Consumption | 10W |
| Operating Temperature | 0-40°C (32-104°F) |
| Moisture | 5-95% (non condensing) |
| Dimension (W×H×D) | 427mm×44mm×330mm |
| Weight | 6 Kg |