

S-PLAY - Specification

Revolutionary Smart Player for hassle-free, professional light shows and automated projects.



General

1. The show recorder shall be a standalone playback unit with an inbuilt microprocessor, designed for the control of lighting protocol DMX512-A and eDMX (Art-Net / sACN).
2. The show recorder shall be a solid-state design.
3. The show recorder shall feature an easily accessible micro-SD slot for expandable memory up to 64GB.
4. The show recorder shall allow for input and output of the following lighting protocols simultaneously:
 - a. 2 Universes of DMX512-A.
 - b. 32 Universe of Art-Net.
 - c. 32 Universe of sACN.
5. The show recorder shall feature a method for remote access over the internet to update playlists and schedules.

Physical

1. The show recorder shall be 1U half width enclosure.
2. The show recorder shall feature two physical XLR5 connector for DMX.
3. The show recorder shall feature a 100 Mbps Ethernet link for eDMX (Art-Net / sACN) and web interface connectivity.
4. The show recorder shall feature four digital inputs. Additional hardware connected to the show recorder shall not be acceptable.
5. The show recorder shall feature two relay outputs (NC, NO, COM). Additional hardware connected to the show recorder shall not be acceptable.
 - a. The relays shall allow for a maximum current rating of 2A.
 - b. The relays shall allow for a maximum voltage rating of 50V DC.
 - c. The relays total switchable power shall be capable of switching up to 60W.
6. The show recorder shall feature one DB9 connector for RS232 Serial communication.
7. The show recorder shall feature a forward-facing status LED.

8. The show recorder shall feature a full colour LCD display with navigational menu buttons.
9. The show recorder shall feature one forward facing USB Type A port for show backup.
10. The show recorder shall be powered by either PoE or a DC Input:
 - a. PoE must comply with the 802.3AF standard, devices with passive PoE will not be deemed acceptable.
 - b. The DC Input shall allow between 12 and 24v DC Input with a power draw beneath 9W.
 - c. A power supply compatible with mains power in North America, Europe, UK, and Asia shall be provided.
11. The show recorder shall be capable of operating in a temperature range from 0°C to 50°C (32°F to 122°F).
12. The show recorder shall be CE/FCC/RoHS/WEEE compliant.

Web Interface

1. The show recorder shall operate a web server providing access through a dedicated local web interface without the need for additional software to record onto the device, edit and playback.
2. The web interface shall feature a way of viewing and control of both playlists and schedules without the ability to edit the playlists.
3. The web interface shall feature a cue library where dynamic cues, static cues and effect cues can be recorded and edited.
 - a. The web interface shall allow for the creation of static cues.
 - i. A static cue shall be able to be captured from live incoming DMX or eDMX (Art-Net / sACN) sources.
 - ii. A static cue shall allow for individually add or bulk assign DMX values to channels.
 - iii. The web interface shall allow the preview of static cues.
 - iv. Once recorded, the web interface shall allow any cue to be changed, renamed, and deleted.
 - b. The web interface shall allow dynamic cues to be recorded.
 - i. The dynamic cue shall be able to be recorded from live incoming DMX or eDMX (Art-Net / sACN) sources.
 - ii. The show recorder shall allow the ability to record cues using an Art-Net trigger
 - iii. The show recorder shall allow the preview of dynamic cues.
 - iv. Once recorded, the web interface shall allow any cue to be changed, renamed, and deleted.
 - c. The web interface shall have a built-in effects generator, allowing for effect cues to be generated without the need of additional software for programming LED pixels.
 - i. Once recorded, the web interface shall allow any cue to be changed, renamed or deleted.
4. The web interface shall have the capability to be externally triggered via the following protocols:
 - a. RS232
 - b. UDP
 - c. OSC
 - d. Digital Inputs (GPIO)
 - e. Art-Net
 - f. sACN
 - g. DMX512-A
5. The web interface shall be able to send external triggers to other devices via the following protocols:
 - a. RS232
 - b. UDP
 - c. OSC

- d. Relays
 - e. Art-Net
 - f. sACN
 - g. DMX512-A
6. The web interface shall allow cues, trigger, and events to be places into a playlist.
- a. The playlist shall provide the ability to create, edit, rename, and delete.
 - b. The playlist shall be displayed as a timeline editor.
 - i. will allow the drag and drop of cue, events, and triggers.
 - ii. will allow control in milliseconds.
 - c. The playlist will allow for up to four cues to be played simultaneously with one playlist.
 - d. The playlist shall be able to define the number of times it is looped, including infinity.
 - e. The playlist shall provide the ability to fade the playlists both in and out.
 - f. The playlist shall allow each cue to have a defined fade in and out time.
 - g. The playlist shall allow the ability to set a start and stop trigger including being able to start a playlist on receiving power without additional external triggers required.
 - h. The show recorder shall support multiple Playlists being played at the same time.
7. The web interface shall allow users to schedule content to be played.
- a. The schedule function shall provide the ability to create, edit, rename, and delete.
 - b. The schedule function shall allow the selection of a playlist to be controlled by the schedule.
 - c. The schedule function shall allow the ability to define the number of times it is looped.
 - d. The schedule function shall allow the ability to set the command to either play or pause.
 - e. The schedule function shall allow the ability to set the start time.
 - f. The schedule function shall allow the ability to set a start date, as well as either an end date or after a set number of repetitions, that the schedule would be active for.
 - g. The schedule function shall allow the ability to set the frequency the schedule will be played, with options for:
 - i. Hourly.
 - ii. Daily.
 - iii. Weekly.
 - iv. Monthly.
 - v. Yearly.
 - vi. Astronomically.
8. The web interface shall allow the ability to change the settings of the device.
- a. The settings shall allow the ability to set the show recorders 32 Universes of Output to either
 - i. Art-Net.
 - ii. sACN.
 - iii. DMX512-A.
 - b. The settings shall allow the ability to change the follow settings to the Art-Net and sACN protocols:
 - i. Refresh rate.
 - ii. Output universe.
 - iii. Destination IP.
 - c. The settings will allow you to change the refresh rate of DMX512-A.
 - d. The settings will allow you to define the OSC input port.

- e. The settings will allow you to define the UDP input port.
- f. The settings will allow you to define the date, time, and location.
 - i. The show recorder shall have an Internal Real-Time Clock
 - ii. The show recorder clock shall continue to operate when external power is absent.
 - iii. The show recorder shall be capable of adjusting for Daylight Savings Time.
 - iv. The show recorder shall be able to calculate the sunrise and sunset times based on the location.
- g. The settings shall allow the change of the show recorder network configurations including:
 - i. DHCP or static IP.
 - ii. IP address.
 - iii. Net mask.
 - iv. Gateway.
- h. The settings shall allow for the show recorder to be reset back to factory defaults.
 - i. The settings shall allow for the show recorder to have the firmware updated.
- 9. The web interface shall have a show recorder status page for technicians and installation purposes.
 - a. The status shall display the network configurations.
 - b. The status shall display the current output protocol settings.
 - c. The status shall display the system information.
 - d. The status shall display the firmware version information.
- 10. The web interface shall have a backup and restore option.
- 11. The show recorder must hold last value on pause.
- 12. The show recorder LCD display shall allow the viewing and updating of network settings.
- 13. The show recorder LCD display shall allow the viewing and controlling of playlists.
- 14. The show recorder shall have lockable functionality via a password.

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Due to constant innovation, information within this document is subject to change.