S-Play User Manual Part No.: 51301

E N T T E C S-Play



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Safety

This unit is intended for indoor use only.

Do not expose this device to rain or moisture, doing this will void the warranty.

Make all the connections before you plug in the mains power

Do not remove the cover, there are no user-serviceable components inside.

Never plug this unit into a dimmer pack

Ensure proper earth connections

Always be sure to mount this unit in an area that will allow proper ventilation. Allow about 6" (20 cm) between this device and a wall.

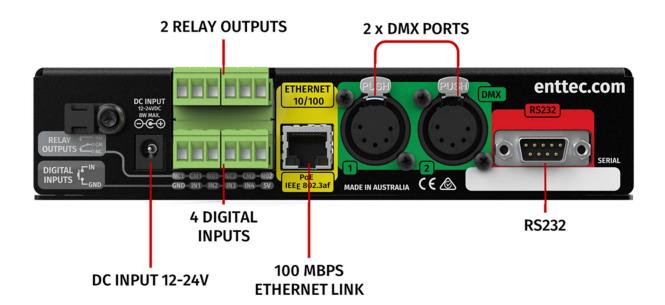
Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, pay particular attention to the point they enter and exit the unit.

Package Contents

When you open the packaging, you should find these items in the box:

S-Play (70092) 2m cat5 cable (79102) 1RU mount kit (79105) 1 X 12V PSU adaptor with international plugs ReadMe Card

Physical Features



1U height – Half width

Two bi-directional 5 Pin female DMX Ports

Colour TFT LCD screen (160x128)

Navigation LCD menu buttons

1 x USB Type A port

12 to 24v DC Input (8w max power draw) – Power supplies over 5A should not be connected to the S-Play.

MicroSD card storage (Class 10 40/10 Mb/s Read/write performance)

100 Mbps Ethernet link featuring 802.3AF PoE

4 Digital Inputs (GPIO)

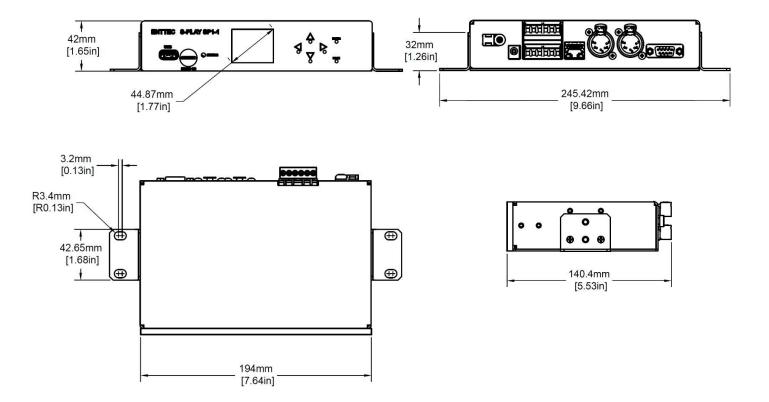
2 Relay outputs (NC, NO, COM)

Solid-state design



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Physical Dimensions



Note

All dimensions are in millimetres (mm).

Mounting Options

The S-Play is provided with ENTTEC's, 1RU mount kit (*pn: 79105*). To provide 9.5" rack and various surface/ wall mounting solutions.



Note

The S-Play mounting solution is not intended to be suspended above head height or audiences. Ensure all relevant legal safety guidelines are followed when installing this device.

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Software Features

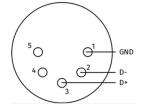
- Supports Physical DMX and eDMX over Network:
 - Art-Net
 - o sacn
 - o DMX512-A
- 2 Universe DMX output or input
- Up to 32 Universe Art-Net and sACN input or output
- Create / edit DMX Scenes (static cue)
- Create / edit DMX Presets (dynamic cue)
- Preview cues being created
- Monitor the DMX values of cues being made
- Configurable output refresh rate. (Max 60FPS eDMX, 44Hz Physical).

- Make playlists from DMX Presets (dynamic cue)
- Make live recordings using DMX/Art-Net/sACN
- Schedule playlists
- Map different streams and protocols to different ports.
- HTP merge between cues and playlists
- Fade out on Stop command.
- Hold last value on Pause
- Remote trigger options: RS232, UDP, OSC, Digital Input (GPI), Art-Net, sACN and DMX
- HTTP and OSC Device API
- Lock out edit functionality using a password.

Diagrams

Connector Pin-Out

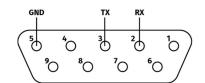
Female XLR5 (DMX512)



PIN	CONNECTION
1	GND
2	DATA -
3	DATA +
4	NC
5	NC

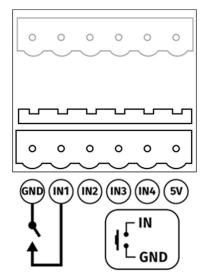
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Male DB9 (RS232)

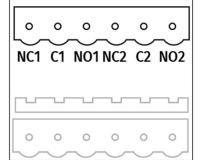


PIN	CONNECTION
1	NC
2	RX
3	ТХ
4	NC
5	GND
6	NC
7	NC
8	NC
9	NC

GPIO

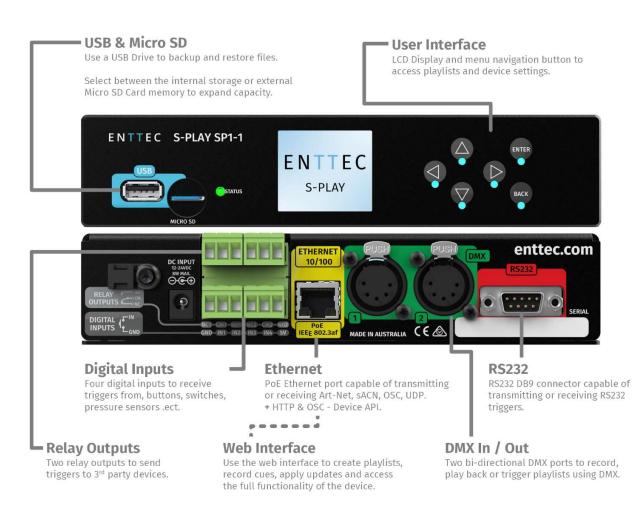


Relay



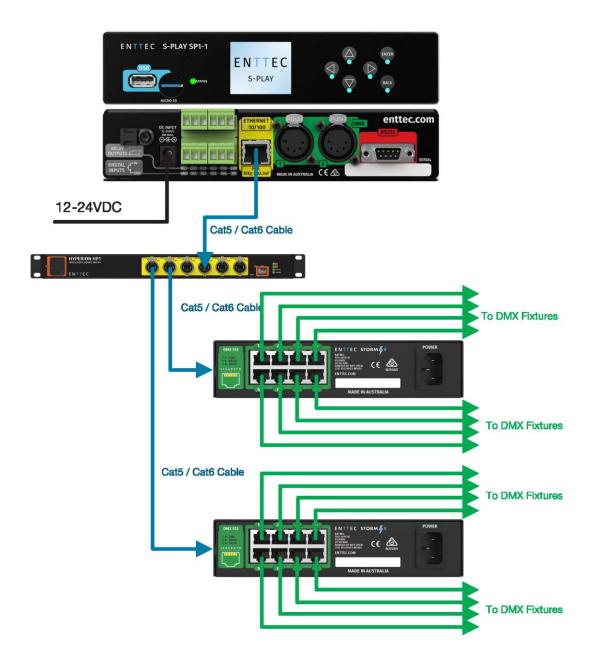


S-Play Connectivity



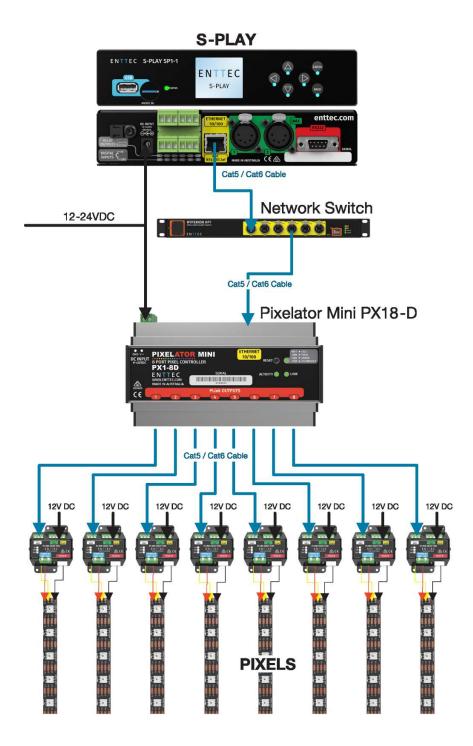


S-Play to Distributed DMX Output

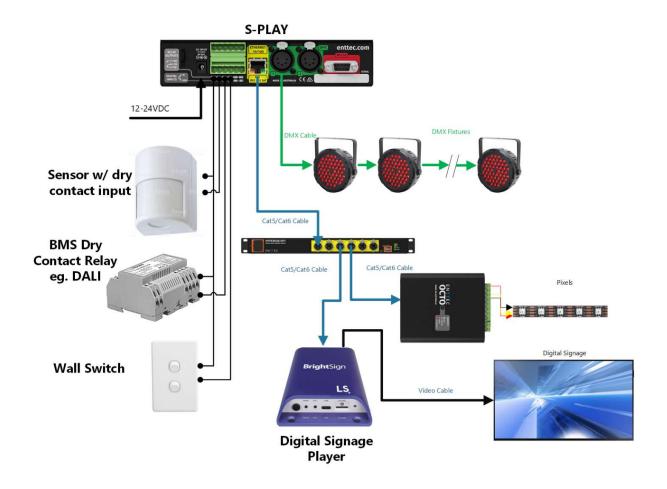




S-Play to Playback to Pixel Systems



S-Play Application Diagram



Connection to Relays

The S-Play contains relays designed for use with low power devices and to provide switching logic for higher power devices.

To ensure a safe installation it is imperative that the power connected to the S-Play relays is within safe operating limits:

The S-Plays relay specifications are as follows:

Maximum Current Rating:	2A
Maximum Voltage Rating:	50V DC
Total switchable power of each S-Play relay:	60W.

To calculate to total power your circuit will pass through the relay, multiply the circuit voltage by the current you intend to pass through it. This value must be lower than 60w

	Example 1	Example 2	Example 3
Current	1.2A	2A	2A
Voltage	50V	30V	50V
Maximum Power	60W	60W	100W

If your application requires mains power switching or high current applications, ENTTEC recommends the use of a DMX switch pack controlled by the S-Play's DMX output, or wire the S-Plays relay outputs to connect to the primary coil of a DIN mount high powered relay.

Connection to Digital Inputs

The S-Play's digital inputs detect circuit completion to the S-Plays 'GND' (V- terminal) to send triggers.

- The maximum resistance of a cable that can be used to connect to a Digital Input to the S-Plays GND is **20 Ohms**.
- ENTTEC recommends a total maximum wire length of 100m. (50m total distance from the S-Play in a loop).
- The longer the cable, the higher it's capacitance and likelihood of interference from EMF (Electro Magnetic Interference).
- To ensure a reliable trigger when creating a system, contact should be made for 3 seconds when triggering a digital input.

Note: Always run digital input cabling away from mains power or high sources of EMI (i.e. air conditioning units) to reduce interference.



If you require a remote input trigger further away from the S-Play than 50m, ENTTEC recommend the use of a 3rd party GPIO interface that can communicate with the S-Plays other triggering methods over a network.

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Getting Started

Right out of the box, the S-Play is factory configured to:

- DHCP Allowing you to plug it directly into your existing router and it will receive a network address.
- Output to DMX ports
- Update its internal clock based on the NTP server to update the date and time based on the selected time zone.

To begin your installation please follow these steps:

- Unpack the unit from the box. Inspect the S-Play for any damage that might have occurred in shipping and verify that it looks to be in good condition before plugging it into power.
- S-Play occupies a half width 1RU space, you will need to attach the mounting bracket kit included in the box to use the S-Play within a half width rack.
- Using a Cat5, Cat5e or Cat6 cable, connect the S-Play to an ethernet network.
- If the unit is connected to a compatible PoE (IEEE 802.3aF) router or switch skip this step. Otherwise, use the provided AC->DC power adapter to power up the unit by plugging it into your mains outlet and the rear of the S-Play.
- Once the unit is powered on, you will be able to see its IP address on the LCD display. The IP address will be automatically assigned by the network, if connected to a DHCP network. If you are connected to a static network, navigate to the devices settings to define a static IP address to allow you connect with the unit's web interface.

The LCD Menu

Controls

- **Direction arrows** Can be used to move between menu tabs and increase or decrease the value in the field with numbers such as IP address, (using the side arrows will allow numerical values to be changed in steps of 10).
- Back- Used to return to the main menu from a sub-menu.
- **Enter** Used to move down to a menu, access sub-menu options, set a numerical value or select options.

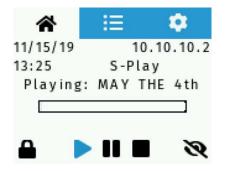
Layout



Home Screen

The home screen displays the following:

- Current date and time
- Device IP Address
- Device Name
- Playlist Status
- Lock Screen
- Playlist control
- Brightness control



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Playlist Screen

The playlist screen allows the user the following:

- Navigate playlists
- Play, pause and stop playlists
- Monitor playlist playback status

Settings Screen

The settings screen allows the user the following:

- Display system status
- Change network configuration (displayed when connected to a network)
- Display time and date
- Restore to factory defaults
- Create a USB backup
- Restore a backup from a USB

To create or restore a backup from a USB you must insert a USB drive into the S-Plays front USB port and navigate to the backup and restore menu.

To load an S-Play backup onto the S-Play, the backup file must be named **splay_backup.bak** for it to be accepted on the device.

Both backup and restore will take up to 1 minute to complete.

DO NOT remove the USB thumb drive whilst creating or restoring a backup.



Network Discovery

To configure your S-Play you will be required to use its web interface, to find your S-Plays IP Address you can either:

View the S-Plays LCD

- 1. Ensure your S-Play is physically hooked up to your network (or WiFi router) using an ethernet cable DHCP is recommended for first time use.
- 2. Power up the device.
- 3. Monitor the LCD menu. The LCD will display the IP address in the LCD home page. If your S-Play's LCD shows 'DISCONNECTED' check even when your S-Play is set to the correct IP setting (either Static or DHCP) and power cycle the device.
- 4. Using a browser on a device within the same network range, type in the IP address shown on the LCD in order to access the web interface to load the S-Play web interface. All configuration can be done using the devices web page.

Finding an S-Play's IP Address from NMU

ENTTEC provides free software (available for Windows and MacOS) called Node Management Utility (NMU) that find the S-Play and display its IP address.

Note: The S-Play is only supported by NMU v1.93 and above.

Please follow these steps:

- 1. Download NMU from <u>www.enttec.com</u>
- 2. S-Play should be connected physically by an ethernet cable to the same physical network (or router) as the computer on which you will run NMU.
- 3. Open NMU. If prompted to, select your computers network interface that your S-Play is connected to.
- 4. Press the Discovery button and wait until NMU finds all supported ENTTEC devices
- 5. Once found, select 'S-Play' and press 'Configure' to be directed to your S-Plays Web interface.

Note: When the S-Play is set to a static IP, the default gateway **MUST** be the same for both the S-Play and your computer for NMU to discover the S-Play.

Web interface

The S-Play can be configured and controlled through a web browser on a computer, located on the same Local Area Network (LAN) as the device. Either click on the 'configure button within in NMU or type the IP address (as detected by NMU e.g. 10.10.3.156) into your web browser to access the web interface.



The S-Plays web interface consists of the following pages:



Home

The home page presents playlists and schedules to give an overview of all playback on the S-Play. This page is the default landing page of the S-Play,

When used in combination with the **lock** function, the homepage can be used to present end users of the system a page to view all playlists and schedules:

Playlists:

• Play, Pause, Stop, Intensity, Progress.

Schedules:

 \circ Activate and Pause schedules

/ 1 My Playlist 1	100	11 🔳 🔽	0:47.654		Playing		00:56	
2 My Playlist 2	66	▶ ■ 7	0.24.221		Paused		01:00	
3 My Playlist 3	-* 33	Image: State of the state of	pped				01:00	
4 My Playlist 4	* 0	► 🖩 st	pped				01:00	
	All Playlists	▶ ■						
			Sched	ulers				
II • Activated My S	ichedule 1 My	y Playlist 1 Ir	finity Fr	equency: Hourly	Time: 0:00	Start: 2020-12-17	End: After 1	
Activated My S	chedule 2 My	r Playlist 2 In	inity Fr	requency: Dally	Time: Sunrise	Start: 2020-12-16	End: After 10	
II President inje								

Note: specific playlists can be hidden from the home page by selecting the **'Hide from Home'** option when editing each playlist on the playlist page.

💦 Hide from Home

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Cue Library

The Cue Library consists of a list of 256 cues, which can either be **Static**, **Dynamic** or **Effects**.

- A **Static** cue is a snapshot of up to 32 universes of data captured at a given time instance.
- A **Dynamic** cue is a recording of up to 32 universes of data captured from a given time duration.
- An **Effect** cue is a cue type capable of creating internal effects from within the S-Play without requiring a DMX source (i.e. rainbow).

The Cue Library page allows the user to:

- Access all recorded or generated cues
- Preview and stop cues

ENT	TE	С										EN	CN	Login	a
		Home	Cue Li	ibrary I	Events	Triggers	Playlists	Scheduler	Settings	Status	Backup	Nov	/ 12 20	19 16:00):49 PM
	Show 20	▼ Cues				Search Cues		Please sele	ect a cue to	begin e	diting				
		Name	11	Туре 🖯	11	Duration	11		es to choose t		and blaut butte	in at the he	ttom o	r a alaat	
	1	Cue 001		Static		0.0		number	of Cues show	n from top			ntom, o	Select	
	2	Cue 002		Static		0.0			by name, numl by cue name		(Click on title to er the cues	o order)			
	3	Cue 003		Static		0.0					s will appear in scene) or Dyna				
	4	Cue 004		Static		0.0		 To save 	the cue eithe	r Edit Scer	e or Record				

Once this page is accessed on the Web UI, playback will be stopped.

Events

The events page allows:

- Access all event options
- Create, edit and delete events

ΕΝΤΤΕΟ			<u>EN</u> CN Login 🔒
Hc	ome Cue Library E	Events Triggers Playlists	Scheduler Settings Status Backup Nov 12 2019 16:01:11 PM
Show 20	Controls Name	Search Controls	Events are commands that are sent from S-Play using the desired protocol.
1	Event 000	N/A	 128 Events entries to configure To see more events, use the navigation buttons on the bottom of the
2	Event 001	N/A	page Click the name of the column to sort the list
3	Event 002	N/A	 Search by event name, protocol type or event ID Click on the event row to display options
4	Event 003	N/A	Once saved, you can use the events in the Playlist Page.

EN CN Login

Triggers

The triggers page allows:

- Access all trigger options
- Create, edit and delete triggers

ENTTEC

	Home	e Cue Library	Ever	nts Triggers	Playlists	Scheduler	Settings	Status	Backup	May 27 2020 16:57:25 PM				
Show	20	• Controls		Search Contro	ols				the S-PLAY	will wait for				
D 🖯	ĮŁ	Name	11	Protocol 0	J†	before ac	tivating a	playlist.						
Trigger 000				N/A		 A list of 128 Triggers allowing for configuration To see more triggers, use the navigation buttons at the bottom of 								
2	Trigger 001		Frigger 001 N//			the pa	per page.							
3		Trigger 002		N/A		Searce	h by trigger r	name, proto	to sort the list ocol type or trigg	ger ID				
4		Trigger 003		N/A	 Click on the trigger row to display options Once saved, you can use the trigger in the Playlist Page. 									

Playlists

The Playlists page is where playlists can be created by combining Cues, Events and Triggers onto the timeline. Using the tools made available it is possible to:

- Create, Edit, Rename and Delete Playlists.
- Access to all Playlists.
- Play, Pause and Stop Playlists.
- Re-order Playlists.
- Hide certain playlists from the home page.
- Define loops.
- Define fade time.
- Define start and stop triggers or to start from start up.

Ε	ΝΤΤ	EC							EN	CN Log	in 🔒
		Home Cue	Library Events	Triggers Pla	aylists Schedu	ller Settings	Status	Backup	Dec	17 2020 10	:20:37 AM
			All Playlists	▶ ■							
	Q Search	🗰 Static cue	📽 Dynamic cu	e 🕐 Effects	tvents [¹]	[4] Triggers	ľ	0. 000 / Fade in	01: 00. 00	0 🕓 🏮	000 🍆 ade out
							N	lame			
								tart Trigger → No Trigger		Sto No Trigg	p Trigger ger →
								lay Count 🗘 Infinity	In	ternal Priority	100
							Ę	Hide from Ho	me	Group	0
							C		►		8
		00:00 05	10 15	20	25 30	35	40	45	50	55	01
	100										
	100										
	100										
	100										
	Events										
	Triggers										

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Scheduler

The scheduler page allows the user the following:

- Access all schedules
- Play and pause schedules
- Monitor status of the schedule
- Create and edit schedules

NTTEC	Cue Library Events	Triggers	Playlists	Scheduler	Settings	Status Ba	ackup	Dec 18 20	20 10:57	:14 AN
			No Register	ed Schedules	_					
Create New Scheduler	Schedule Name:	New Name	here							
Select Playlist:	- Select a Playlist -	~	Loop: 4	C	C	ommand: Play	(~		
Start:	2020-12-18		Time	;	• 0:00	ž				
End:	2 020-12-18	0	O After:	1 Rep	etitions					
Frequency Type:	 Per Second Per Minute Hourly Daily 	Every	1 Hour(s	i) 🔂						
	 Weekly Monthly Yearly Astronomical 									
	Save Scheduler	Delete								

Settings

The settings page allows the user the following:

- Configure Art-Net and sACN output universes and destination IP's
- Configure output protocol refresh rate
- Configure DMX output ports
- Define the OSC and UDP input port
- Set the date, time and location
- Change the S-Play's network configuration
- Configure remote access using SSH Tunnelling (Advanced Feature).
- Reset to factory defaults
- Update firmware



Note: Do not downgrade firmware version without consulting the ENTTEC support team first. Downgrading, firmware version may result in playlists, schedules to operate as intended.

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ENTTEC

EN CN Login 🔒

Home Cue Library Events Triggers Playlists Scheduler Settings Status Backup Feb 8 2021 05:49:24 AM



-PLAT OU	tputs							Default Co	nfigurations	~
Universe 1:	ArtNet 1	Universe 2:	ArtNet 2	•	Universe 3:	ArtNet 3	•	Universe 4:	ArtNet 4	•
Universe 5:	ArtNet 5	Universe 6:	ArtNet 6	•	Universe 7:	ArtNet 7	•	Universe 8:	ArtNet 8	~
Universe 9:	ArtNet 9	Universe 10:	ArtNet 10	~	Universe 11:	ArtNet 11	•	Universe 12:	ArtNet 12	~
Universe 13:	ArtNet 13	Universe 14:	ArtNet 14	~	Universe 15:	ArtNet 15	~	Universe 16:	ArtNet 16	~
Universe 17:	ArtNet 17	Universe 18:	ArtNet 18	÷	Universe 19:	ArtNet 19	÷	Universe 20:	ArtNet 20	~
Universe 21:	ArtNet 21	Universe 22:	ArtNet 22	~	Universe 23:	ArtNet 23	•	Universe 24:	ArtNet 24	~
Universe 25:	ArtNet 25	 Universe 26: 	ArtNet 26		Universe 27:	ArtNet 27	•	Universe 28:	ArtNet 28	~
Universe 29:		 Universe 30: 	ArtNet 30	•	Universe 31:	ArtNet 31	•	Universe 32:	ArtNet 32	~
	201010123	- onverse sor	Partition	_	late Outputs	Printer of		oniterae an	PUTTELUZ	
					ate outputs					
ArtNet					SACN					
		Configure Art Net					80	nfigure sACN		
DMX Outp	ut 8				Network	Input Por	ts 🖯			
Refresh Rate		44 v fps			OSC Input	Port:		8000		
	Oup	odate DMX Settings			UDP Input	Port		5000		
						Up	date Net	work Input Settin	gs	
Date & Tin	ne O				Location	0				
Set Date Man	ually: On				GMT offset		+ Hrs:	11 × Mi	n: 04 ¥	
Date :	8	 February 	2021 🗸		Latitude:	55	♥ 2	5 🗸 'North 1	iouth	
Time :	5	✓ : 48 ✓			Longitude:	160	v 2	11 × '	East West	
Time Zone:	Au	stralia/Melbourne	*		Calculated	Sun	ise: 08:26	Sunset: 17:2	2	
		DUpdate Clock					♥ Up	date Location		
Network Ir	nterface 🖯				Remote	Access 🖯				
DHCP:		On			Enable:	Off	۲			
	Upda	te Network Settings			IP:	0		ο.	ο.	0
					Remote Po	rt: 8080		http://0.0.0.0	8080	
					Username:	usema	ime			
					SSH Key:	Choose	file No file	chosen		
						Up	date Rem	ote Access Settin	gs	
Depart to -	actory Defaul									
Click RESET • Web • The	F TO FACTORY DEI Passwords will r IP address will b	FAULTS to clear all user eturn to their default s e set to DHCP ents and triggers will b	etting	figuratio	n and reset this S	Play to facto	ry defaul:	ts. After resetting	, the:	
Warning: F	actory resetting t	his device is irreversib			ta previously enti	ered on this (levice.			
	Downgra	Note: Do not downgra ding, firmware version			e Update 6	the ENTTEC	support t	eam first.	×d.	
	e e magne	Alwa	s perform a	backup h	efore updating fir	mware versi	on.			

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Status

The status page displays:

- Network information of the device
- Current output protocols
- System information including:
 - o System status
 - Playlist activity
 - \circ CPU status

- S-Play User Manual Part No.: 51301
- Storage status
- Device name
- System uptime
- Hardware ID
- Software version information
 - Firmware version

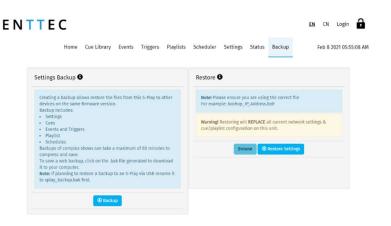
ΤΤΕΟ	2									<u>EN</u> CN	Login
Ho	me Cu	ue Library	Events T	friggers	Playlists	Scheduler	Settings	Status	Backup	Dec 18 2	020 10:5
				Ne	etwork Infe	ormation 🖯					
IP Address:			10.0.0.25								
Subnet Mask:			255.0.0.0								
Broadcast Ad	dress:		10.255.255.2	255							
Mac Address:			00:50:C2:08	:1A:36							
Serial No.:			0050c2081A	\36							
				0	utput Info	rmation 🖯					
	Jniverse 1	Universe 2	Universe 3	Universe 4	Universe	5 Universe 6	Universe 7	Universe 8	Universe 9	Universe 10	Unive
Protocol	ArtNet	ArtNet	ArtNet	ArtNet	ArtNet	ArtNet	ArtNet	ArtNet	ArtNet	ArtNet	ArtNe
Universe)	1	2	3	4	5	6	7	8	9	10
IP Address	Broadcast	Broadcast	Broadcast	Broadcast	Broadcas	t Broadcast	Broadcast	Broadcast	Broadcast	Broadcast	Broad
				S	ystem Info	ormation 🖯					
System Status	:			ED		STOP ENG	INE REBOO	т			
Activity:			No Playlist i	s Playing							
CPU Status:			Load: 1.3 %	Temp: 38	3.9 °C						
Disk Space:			5.82 % used								
Disk opace.			SD (Internal)						8.0 0	GB free out of 8	3.5 GB
System Name	ß		S-PLAY								
System Uptim	e:		2 hours, 15,	minutes							
Hardware ID:			1651660c04	424264							
				So	oftware Inf	ormation 🖯					
Software Vers	ion:		1.3.0								
OS Build date			Fri 08 May 2	2020 09:35:0	5 AM UTC						
Web Version:			20201218.5								
Engine Version	n:		20201218.2								
	rsion:		1.5								

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Backup

The backup page allows the user the following:

- Settings backup
- Restore
- Storage location selection



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Record

To record Cues, select any cue in the library as shown in the image below.

ENTTEC A EN CN Login Home Cue Library Events Triggers Playlists Scheduler Settings Status Backup Nov 13 2019 08:31:22 AM • Cues Search Cues Show 20 Cue Name 🔁 : Cue 001 Duration 0 ID 8 Il Name 🖯 11 Type 🖯 Cue Type 0 : Static Scene Cue 001 2 Cue 002 Static 0.0 ✤ Edit Scene Cue 003 3 Static 0.0 4 Cue 004 Static 0.0

Select the cue type to be recorded or created:

- Static
- Dynamic
- Effects

The S-Play allows previews of recordings or effects to be played back without the need to create a playlist.

Recording Pointers:



During ArtNet or sACN recording, ensure that no other active ArtNet/sACN device is outputting (including the S-Play). This will eliminate the chance of interference loopback that can lead to jumpy or incorrect recordings.

The S-Play actively outputs the same internal universes as it is recording in real-time. For best practice configure your DMX input universes to be different to the output universes on the S-Play Settings page, or the outputs on the settings page are set to **'NONE'** to stop any data conflict.

When recording using the physical DMX ports, ensure the DMX ports are not already configured to be outputs on the Settings page. – If a DMX port is configured to be an output it will be unable to receive data.

Static Cue

When creating a Static Cue ensure you follow the recording pointers at the beginning of this section to configure your S-Play correctly.

- 1. Select Static Scene as the cue type
- 2. Press the 'Edit scene' button
- 3. Provide cue name to aid identification
- 4. Select one of the following options for data capture:
 - 1. DMX (up to 2 Universes / 1024 Channels)
 - 2. Art-Net (up to 32 Universes / 16,384 Channels)
 - 3. sACN (up to 32 Universes / 16,384 Channels)
- 5. Specify the universes for capturing data
- 6. Once the option for capturing is selected (either manually defined or a live snapshot), press on the capture button to take a snapshot of your input data at a specific time. (For Network based protocols sACN/Art-Net sometimes several Captures needed to get states of all Universes).

Live Preview – When enabled, the output will be shown live as values are recorded.

Toggle All Inputs – Selects all input universes

Save Scene - used to save the cue created

Close - Close edit window without saving

Preview – Observe the capture using DMX ports. This will stop any current playbacks

Stop Preview – Stop output of captured data through DMX ports

The DMX values captured will be shown for the corresponding universe, as shown in the image below:

Cu	e Nan	ie:		Cue 00	01									Live P	review	6					To	oggle A	ll Input	s	
			MX	Art-N	let s	ACN	I.						SE	25	5 f	rom	1	to	512	0	Set DA	IX	🖞 Capt	ure	
In 1:	l Ir	1 2: □																							
In		in 2		in 3	In	4	In 5	1	16	In	7	In 8	Ir	19	In 10		In 11	In	12	In 13		n 14	In 1	15	in 16
In	17	In 18	1	n 19	In 3	80	In 21	In	22	In 2	13	in 24	In	25	In 26		In 27	In	28	In 29		n 30	In 3	31	In 32
255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255
255	265	255	255	255	265	255	255	255	255	255	255	255	255	265	255	255	255	255	255	255	255	255	255	255	265
255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255
265	265	255	255	266	265	255	255	255	265	255	255	265	265	265	255	255	255	255	265	255	265	255	265	265	265
255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255
255	255	255	255	255	265	255	255	255	255	255	255	255	265	265	255	255	255	265	255	255	255	255	255	255	265
255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255
255	265	255	255	255	265	255	255	255	255	255	255	265	255	255	255	255	255	255	255	255	265	255	255	255	265
255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255
255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255
255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255
255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255
255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255
255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255
255	265	255	255	255	255	255	255	265	255	255	255	255	255	265	255	255	255	255	255	255	255	255	255	255	255
255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255

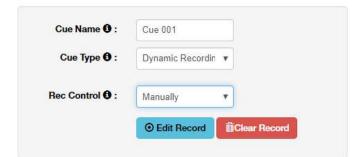
Dynamic Cue

Dynamic Cue recording can be started manually or by sending an ArtNet trigger. When carrying out a recording ensure you follow the recording pointers at the beginning of this section to configure your S-Play correctly.

Cu	e Narr	ne:		Cue 0	01				Recor	ding	00:00:	00		live P	review						To	iggle Al	l Input	5	
		D	MX	Art-N	et s	ACN							Sta	irt 1		End	512	0	Start	Rec		itop R	ec		
In 1:	🗆 Ir	2: 🗆																							
1	•	2 ~																							
In	1	In 2		In 3	In	6 I	In 5	- b	6	In 7		In 8	Ir	9	in 10		In 11	In	12	In 13	: 11	14	In 1	15	in 16
In	17	In 18		n 19	In 2	0	In 21	In	22	In 2	3	in 24	In	25	In 26		ln 27	In i	28	In 29		1 30	In 3	я	In 32
255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255
255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255
255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255
255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255
255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255
255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255
255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255
255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255
255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255
255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255
255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255
255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255
255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255
255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255
255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255
255	255	255	265	255	255	255	265	255	255	265	255	255	255	255	255	255	255	255	255	255	255	255	255	265	255

Manual Recording Control

- 1. Select Dynamic Scene as the cue type
- 2. Select Manually from the Rec. Control option
- 3. Press the **Edit Record** button



- 4. Provide cue name to aid identification
- 5. Select one of the following options for data capture:
 - 1. Snapshot DMX (up to 2 Universes / 1024 Channels)
 - 2. Snapshot Art-Net (up to 32 Universes / 16,384 Channels)
 - 3. Snapshot sACN (up to 32 Universes / 16,384 Channels)
- 6. Specify the universes for capturing data

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7. Once the option for capturing is selected, press on the start rec button to start the recording. The timer in the right bottom part of the window should start running as soon as data is captured.

The DMX values captured will be shown for the corresponding universe.

Live Preview – When enabled, the output will be shown live as values are defined.

Toggle all inputs - Selects all input universes

Save scene - used to save the cue created

Close - Close edit window without saving

Preview – Observe the capture using DMX ports. This will stop any current playbacks

Stop Preview – Stop output of captured data through DMX ports

N.B. During Art-Net or sACN recording check that no active output is broadcasting from your S-Play to eliminate unwanted frame loopback.

Art-Net Recording Control

- 1. Select Dynamic Scene as the cue type
- 2. Select ArtNet Trigger from the Rec. Control option
- 3. Set the desired universe, channel and value to activate the trigger

Rec Control	ArtNet Trigger	¥
Uni 🔁 :	In 10	
	Net: 0 Subnet: 0 U	ni: 10
Channel 🔁 :	5	T
Val 🔁 :	240	×
	O Edit Record	Clear Record

- 4. Press edit record button
- 5. Provide cue name to aid identification
- 6. Select one of the following options for data capture:
 - 1. Snapshot DMX (up to 2 Universes / 1024 Channels)
 - 2. Snapshot Art-Net (up to 32 Universes / 16,384 Channels)
 - 3. Snapshot sACN (up to 32 Universes / 16,384 Channels)
- 7. Specify the universes for capturing data
- 8. Once the option for capturing is selected, press on the start rec button to start the recording.
- 9. S-Play will wait then for the trigger to be active before it starts recording
- 10. The timer in the right bottom part of the window should start running as soon as the Trigger is active, and data is captured

The DMX values captured will be shown for the corresponding universe.

Toggle all inputs – Selects all input universes

Save scene - used to save the cue created

Close - Close edit window without saving

Preview – Observe the capture using DMX ports. This will stop any current playbacks

Stop Preview – Stop output of captured data through DMX ports

N.B During Art-Net recording, ensure no active Art-Net output is broadcasting to eliminate frames loopback, which leads to the incorrect recording.

N.B. The Art-Net trigger will be active, once the value of the channel is equal to or greater than the value set in the trigger.

Effects

- 1. A slot from the Cue Library
- 2. Provide cue name to aid identification
- 3. Select your desired effect type within the **Cue Type** field.
- 4. Press the Edit Effect button

Cue Name 🔁 :	Cue 001	
Cue Type	Rainbow Effect	
	Edit Effect	Clear Effect

5. Configure your desired effects using the onboard parameters. – The S-Plays colour effects have been primarily designed around LED and RGBW fixtures.

Number of LEDs: 1	28						
EDs skipped by eff	ect: 0						
ED Channel Orderi	ng: RGBW 💊	2					
BPM: 128							
Output 1:	Output 2:	Output 3: 🗹	Output 4:	Output 5:	Output 6:	Output 7:	Output 8:
Output 1: 2 Output 9:	Output 2:	Output 3: 🗹 Output 11: 🗆	Output 4: Output 12:	Output 5: Output 13: Output	Output 6: Output 14: Output	Output 7: Output 15: Output	Output 8: Output 16:
			and the second	1 Sec. 7 (21) Sec. 2.0			

- 6. Effects are applied on a per universe basis and do not cascade across multiple. Select each of the S-Plays universes that you wish to apply the effect to
- 7. After the parameters have been set, the S-Play allows effects to be previewed using the **Preview** button.
- 8. Once happy with the effect created this can be Saved to the S-Plays memory.

Playback

Preview Cue

- Select a Cue within the **Cue Library** and enter edit mode.
- Click **Preview Cue**.



• The **Cue** is previewed on the selected output ports as defined within the S-Plays **Settings** page.

When previewing a cue, be sure to stop the preview when done.

Editing a Cue, Effect or Dynamic Recording

After a cue has been created, the option to edit it is available when selecting the cue in the Cue Library, please note this directly overwrites the full universe values received and extends the length of the cue if necessary.

If you wish to subtract elements from a static scene, effect or dynamic recording (*i.e. remove universes or individual channels from the recording, shorten the length of a dynamic cue*) this cannot be done using the edit function. Clear the scene and start again. Clear the recording and re-record.

Once a cue begins being edited. Discarding a cue will reset it to default values. If you have entered edit mode, but do not want to make changes, press **save**.

Playlists

The playlist page allows the user to add multiple cues (static or dynamic), events and triggers in a sequence to be stored and played back at any given point.

Playlists Page Layout

Ε	ΝΤΤ	EC						<u>EN</u> C	N Login 🔒
A		Home Cue	Library Events	Triggers Playl	ists Scheduler	Settings	Status Backup	Dec 17	7 2020 10:20:37 AM
В			All Playlists						
C D	Q Search	Static cue	Suppose the second seco	() Effects	ပံ Events ြ	Triggers	Name Start Trigger → No Trigg Play Count → Infinity	Inter	Stop Trigger No Trigger → nal Priority 100
		00:00 05	10 15	20	25 30	35	F Q Q 40 45	50	Group 0
G H I	100 100 100 Events Triggers		10 15	20	2) 50		40 4)	20	

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The playlists page is comprised of 9 key elements:

A. Created Playlists (all playlists are shown here) B. Global Playlist Control

Playlist Editor

- **C.** Search and Filter Bar
- E. Playlist Attributes
- **G.** Media Track Timelines
- I. Trigger Track

- **D.** Attribute Library**F.** Timeline Navigation
- H. Event Track

Created Playlists

This section lists all the playlist created. The section displays basic information like the playlist name and duration and gives basic control over a playlist.



Reorder: Drag and drop the playlist from the three dots rearranging your playlist (this will be reflected on the Home Page).

Edit: Loads the playlist in the timeline and media tracks for editing

Name: Displays the ID (set internally) and name of the playlist set in the Playlist Attribute section.

Intensity: real-time control of the master intensity of the playlist. By default, it is set to 100% and it can be changed when the playlist is playing.

Controls - Play/Pause, Stop

Play: Play the selected playlist, also the Playlist is loaded into the timeline and media track section.

Pause: Pause the selected playlist. By pausing a playlist, S-Play holds the las DMX value.

Stop: Stops the selected playlist. By stopping a playlist, S-Play stops outputting any data (set DMX value t 0).

Status: Shows the status of the playlist. It can be: *Playing, Paused, Stopped, Waiting for Trigger.*

Timeline and Duration: Shows the playback state of each playlist. Once the playlist has completed playing, it stops outputting data. Opacity of this bar matches the playlist intensity.

Delete: Deletes the playlist and schedules where the playlist is used in

Global Playlist Control

Gives control over all playlists. When pressing play on the global control, all the playlists start playing. If there are conflicts in channels, the values are merged on a Highest Takes Precedence (HTP) basis.

Search and Filter Bar

This box contains all Cues Events and Triggers Stored on the S-Play. To create a new Playlist, select "Create New Playlist" from the list. This entry will always be the first entry of the menu.

Available Cues and Controls

Lists all the media that can be used in the playlist. It is categorized by Static Cues, Dynamic Cues, Effects, Events and Triggers.

To use any media, drag and drop the desired cue into any of the media tracks. Please note that triggers and events have dedicated tracks.

Playlist Attributes

0. 000 🥕 💌 Fade in	30. 000 ○ 0. 00	00 🍢 de out
🖍 Playlist		0
^{Start Trigger} ⊣→ No Trigger	_{Stop} No Trigge	Trigger er →
Play Count	Internal Priority	100
畏 Hide from Home	Group	0
Fade in	FADE HANI	DLE
FADE IN TIME	FADE OUT	

Name: Set the name of the playlist.

Internal Priority: when playing multiple playlists, for any conflict between channels, the playlist with higher priority will drive the output. If the playlist has the same priority the channels will merge following HTP (Highest takes precedence) method.

Loop: Determine the number of times that the playlist will play until it stops

Group: Define a group of playlists to override the output. Groups with the highest hierarchy drive the S-Play's output when the groups of the same number have universe conflicts the S-Play references Internal Priority.

Start Trigger: A list of triggers set in Triggers page, except "On Power Up" which triggers playlist right after Splay is powered on. These triggers are used to start the playlist. To use this feature, select a Trigger from the dropdown menu; the Playlist will play by either pressing play or activating the trigger.

Stop Trigger: A list of Triggers set in Triggers page. These triggers are used to stop the playlist. To use this feature, select a Trigger from the dropdown menu; the Playlist will stop when the trigger conditions are met.



Fade: Set the fade in and fade out time for a cue. It will go from 0 to max intensity in the set period.

Playlist Settings

					CU	E OPTIONS			ZO	DM	CONT	ROL	SAVE
		0.000	<u>0</u>	0. 000 🖉		Cue 001	0. 000 %	30. 000 <u></u>	Q	٩			
	4	•	00: 00)	05	10	15		20		25		30
	10	0	🗰 со										×
Т	IMEL	INE											

NAVIGATION

Cue Options: Options for any cue added into the cue track. The cue options are also active when a cue in the cue track is selected.

Zoom: Zoom In and Out using the magnifying glass with the plus and minus symbol. Note that when you zoom in/out, the values in the timeline change and the size of the cue boxes change.

Control: Gives navigation and playback over the playlist loaded in the Playlist Editor.

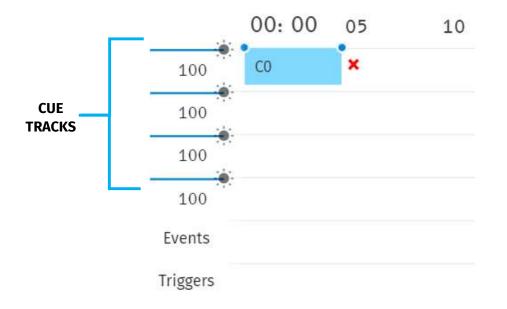
Save: Saves any change on the Playlist. S-Play will ask to save any change before playing a Playlist.

Timeline navigation: Navigate back and forward between timelines using this option. Drag the timeline to navigate back and forward.

Playlist Timeline and Media Tracks

TIME INDICATOR

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S-Play has 4 different cue tracks where any cue from the playlist media section can be dragged on.

Intensity: Each track has its own intensity and it affects all the media on the same level.

Cue tracks: Drag and drop media to this section. To remove a cue from the tracks, select the cue and click on the red **x** next to the right edge of the box.

When playing multiple media at the same time. i.e. 2 cues on 2 different tracks, S-Play will use HTP (Highest value Takes Priority) merging.

Event and Trigger Tracks

These tracks are reserved for events and triggers respectively. The vertical line shows the exact moment playlist will pause to wait for the trigger to be active, or the playlist executes the event. When using triggers, the playlist pauses and holds the last value on the output. To continue, activate the selected trigger or press play again.

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Example Playlist

Q Search	🗮 Static cue	🔐 Dynamic cue	C Effects	t Events 🖞	🗄 Triggers	• • • • • • • • • • • • • • • • • • • •) - 30. 000(0.000 Fade out
Effect 00	1					🧨 Playlis		0
						Start Trigger → No Tri Play Count ↓ Infinite		Stop Trigger gital Input 1 →
						🔁 Hide fro	m Home	Group 0
						0 0		
← → 0	00: 00	05	10	15	ō	20	25	30
200	EO					Ŭ		
100								
100								
100								
Events E1			E1			E1		
Triggers		71		71			Т1	

This example is showing a playlist named "Playlist 1" that will start on power up and will loop until manually stopped (Play Count: Infinity).

The effect cue "Cue 001" will play while sending an RS232 Event. By second 5 the playlist will pause and wait for the Digital input trigger to be sent before the effect will continue playing will continue playing

. The playlist will then continue sending Events and waiting for triggers. At second 30 it will loop back sending the first RS232 Event out.

Control

Events

Use events to allow integration between S-Play and other devices. The S-Play can send commands over multiple protocols and interact with Relays.

RS232

- An RS232 Event will send the user defined RS232 command, when activated.
- RS232 strings ending in: \r the \r will be replaced by a carriage return.
- n -the n will be replaced by a line feed.

Make sure the receiver has the correct communication setup:

- Baud rate: 9600
- Data: 8bit
- Parity: None
- Stop: 1bit
- Flow Control: none

N.B. ASCII Command text limited to 1024 Characters.

Event Name 👔	RS232 Ever	nt
Output Type 🚯	RS232	*
 An RS232 Event will send the activated. RS232 communication informone, Stop: 1 bit, Flow Contine Commands are limited to 33 RS232 strings ending in: \r - return. \n - the \n will be referred. 	mation Baud rol: none. ? characters. - the \r will b	rate: 9600, Data: 8 bit, Parity: e replaced by a carriage
Command 🚯		
SEND EVENT		
SAVE EVENT		

UDP

- A UDP Event will send the command defined below when activated.
- Commands are limited to 1024 characters.
- UDP strings ending in: \r the \r will be replaced by a carriage return. \n - the \n will be replaced by a line feed.

Event Name 🚯	UDP Ev	/ent					
Output Type 🚯	UDP		Ŧ				
 A UDP Event will send the command defined below when activated. Commands are limited to 1024 characters. UDP strings ending in: \r - the \r will be replaced by a carriage return. \n - the \n will be replaced by a line feed. 							
IP 🚺	10	0	0	255			
Port 🚯							
Command 🚯							
SEND EVENT							
SAVE EVENT							

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OSC

- When activated, this Event will send the OSC data defined in the settings.
- OSC Strings, Floats and Integers can be defined.
- All OSC address must start with a leading '/' sign.

Event Name 🚯	OSC Eve	nt		
Output Type 🚯	OSC		•	
 When activated, this Event settings below. All OSC commands must st 				in the
Broadcast IP 🚯			0	
Port				
Address 🚯	/			
Туре 🚯	string		•	
Argument 🕕				
SEND EVENT				
SAVE EVENT				

Relay

Control the relay action.

- NO: Normally Open
- NC: Normally Closed

When activated in a playlist the Relay will perform the selected action.

N.B. On system power-up, the Relays position is set to be normally open.

Event Name 🚯	Relay Event	
Output Type 🚯	Relay	•
When activated in a playlist the R perform the selected action	lelay will	NO. Normally Closed
Relay Selection 👔	Relay 1	*
Relay State 🚯	NO	*
SEND EVENT		
SAVE EVENT		

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Art-Net

When activated, this Event will send the Art-Net channel defined in the settings defined.

• For best practice, do not overlap Events with universes used for playback of recordings.

Event Name 📵	Art-Net E	vent	
Output Type 🊯	Art-Net	*	
 When activated, this Event v settings below. 	vill send the	e Art-Net channe	el defined in the
Broadcast IP	10	0 0	255
Art-Net Universe 🚯	0	Net: 0 Subne	et: 0 Universe: 0
Art-Net Channel 🚯	1	*	
Channel Level 🌒	0	*	
> SEND EVENT			
SAVE EVENT			

sACN

When activated, this Event will send the sACN channel defined in the settings.

• For best practice, do not overlap Events with universes used for playback of recordings.

Event Name 🌒	sACN Ever	nt		
Output Type 🚯	sACN	*		
When activated, this Event v settings below.	will send the	SACN chan	nel defined	d in the
Multicast IP	239	255	0	1
sACN Universe 👔	1			
sACN Channel 🚯	1	·*		
Channel Level 🚯	0	*		
SEND EVENT				
SAVE EVENT				

DMX

When activated, this Event will send the DMX channel defined in the settings.

• For best practice, do not overlap Events with universes used for playback of recordings.

Event Name 🚯	DMX Event	
Output Type 🚯	DMX	•
 When activated, this Event settings below. 	will send the D	MX channel defined in the
DMX Port 🚯	Port 1	•
DMX Channel 🚯	1	*
Channel Level 🚯	1	• •
		*

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Triggers

Use triggers to take control of the timeline of the playlist. When using a trigger, the timeline will pause until the selected trigger is active.

Triggers can be used to start a playlist or at any point within the timeline.

When a playlist is waiting for a trigger, it will play by either activating the trigger or by pressing play. This way there is full control of the playback even when the triggers are not available.

When creating new triggers, the 'Test Trigger' option can be used to send the trigger being created.

RS232

RS232 communication settings:

- Baud Rate: 9600
- Data: 8bits
- Parity: none
- Stop: 1bit
- Flow Control: None

N.B. Each command string is limited to 1024 Characters.

Trigger Name	0	RS232 Trigg	fer	
Input Type	0	RS232	*	
• A Trigger will be activa	ated w	hen an incon	ning command ma	atches the
user defined RS232 co	mman	ıd.		
user defined RS232 co		ıd.		
	0	ıd.		

UDP

UDP communication settings:

- A Trigger will be activated when an incoming UDP command matches the one defined below.
- When used in a playlist, the S-PLAY will wait to receive the Trigger below before continuing.
- To define a UDP input port navigate to your S-Play's Settings page.
- UDP strings ending in: \r the \r will be replaced by a carriage return. \n the \n will be replaced by a line feed.

Trigger Name 🚯	UDP Trig	ger	
Input Type 🚯	UDP	*	
 the one defined below. When used in a playlist, the below before continuing. To define a UDP input port in 	S-PLAY wil navigate to the \r will b	your S-Play's Settings page. De replaced by a carriage returr	
Command 🕕			
• TEST TRIGGER			
SAVE TRIGGER			

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OSC

The S-Play can receive OSC through two key methods:

1). Triggers that can be created to start and resume playlists.

- A Trigger will be activated when an incoming command matches the user defined Trigger string.
- The command must be received upon the port defined within the settings page (default 8000).
- All OSC commands must start with a leading '/' sign.
- When used in a playlist, the S-PLAY will wait to receive the Trigger below before continuing.

2). Integration with the S-Plays OSC API to enable control of:

- Master intensity
- Play, pause and stop all playlists
- Play, pause and stop individual playlists
- Per-playlist intensity control

Visit <u>www.enttec.com</u> to download a copy of the OSC API.

Digital Input

S-Play has 4 Digital input ports to activate triggers.

- Idle position for digitals input is high.
- A Trigger is registered when the circuit is completed (low).
- When used in a playlist, the S-PLAY will wait to receive the Trigger below before continuing.
- If the input remains on low position while the timeline goes over the trigger, the playlist won't pause.

Use Digital inputs with sensors, pressure pads, wall switches, etc.

Trigger Name 📵	OSC Trigg	er
Input Type 🚯	OSC	·
 A Trigger will be activated v user defined Trigger string. The command must be rece settings page (default 8000 All OSC commands must sti When used in a playlist, the below before continuing. 	eived upon t I). art with a lea	he port defined within the ading '/' sign.
Address 🚯	1	
• TEST TRIGGER		
SAVE TRIGGER		

Trigger Name 🚯	Digital Input T	rigger
Input Type 🚯	Digital Input	•
 Idle position for digitals inj A Trigger is registered wher completed (low). When used in a playlist, the wait to receive the Trigger I continuing. 	• the circuit is	
Input 📵	1	*
C TEST TRIGGER		
SAVE TRIGGER		

Art-Net

An Art-Net trigger can be unicast or broadcast to the S-Play.

- The Trigger will be activated, when the incoming value is equal or greater than the Art-Net channel parameters defined.
- To avoid clashes do not use a universe assigned for Recording/Playback.
- When used in a playlist, the S-PLAY will wait to receive the Trigger below before continuing.

Trigger Name 👔	Art-Net Tr	igger
Input Type 🚯	Art-Net	÷
 The Trigger will be activate the Art-Net channel parame To avoid clashes do not use Recording/Playback. 	eters defined e a universe a	I. assigned for
 When used in a playlist, the below before continuing. 	e S-PLAY will	wait to receive the Trigger
	e S-PLAY will	wait to receive the Trigger Net: 0 Subnet: 0 Universe: 0
below before continuing.		
below before continuing. Trigger Universe ①	0	
below before continuing. Trigger Universe () Trigger Channel ()	0 1	

SACN

- The Trigger will be activated, when the incoming value is matched to the sACN channel parameters defined.
- To avoid clashes do not use a universe assigned for Recording/Playback.
- When used in a playlist, the S-PLAY will wait to receive the Trigger below before continuing.

Trigger Name 🚯	sACN Trigger	
Input Type 🚯	SACN	•
 The Trigger will be activated the sACN channel paramete To avoid clashes do not use Recording/Playback. When used in a playlist, the below before continuing. 	rs defined. a universe assigne	ed for
Trigger Universe 🚯	1	
Trigger Channel 🚯	1	v
Trigger Level 🚯	0	*
S TEST TRIGGER		
SAVE TRIGGER		

DMX

- The Trigger will be activated, when the incoming value is matched to the DMX settings defined.
- To avoid clashes do not use a universe assigned for Recording/Playback.
- When used in a playlist, the S-PLAY will wait to receive the Trigger below before continuing.

N.B. If DMX is selected as output protocol in the setting page, the DMX triggers will be disabled in the playlist.

Trigger Name 🚯	DMX Trigger		
Input Type 🌗	DMX	•	
 The Trigger will be activate the DMX settings defined b To avoid clashes do not us Recording/Playback. When used in a playlist, th below before continuing. 	elow. e a universe as	signed for	
DMX Port	Port 1	*	
Trigger Channel 🚯	1	•	
Trigger Level 🚯	0	*	
C TEST TRIGGER			
SAVE TRIGGER			

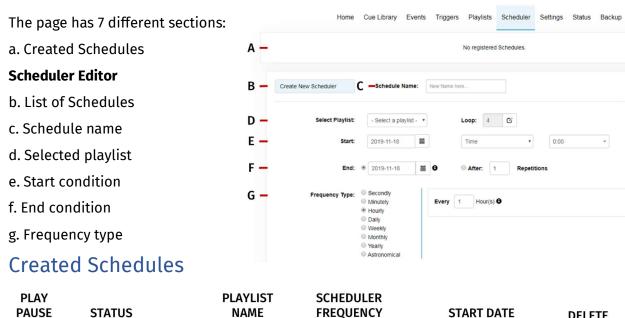
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Schedule

To set up a schedule you need to create a playlist first. The scheduler will play the playlist at a set time until the end condition is met. i.e. *PlaylistA* can be played every day on sunset from the 1st of February until the last Friday of October.

The playlists played by the scheduler will play next if there is a playlist playing when the initial condition is met. In the previous example, if S-Play is playing *PlaylistB* right before sunset, S-Play will wait for it to finish to play PlaylistA set in the scheduler.

Give attention to the setup of Date & Time and Location settings for the correct work of Schedulers.



							- U	
нс	Actived	ONCE A YEAR	Playlist	Infinity Frequency: Hourly	Time: 20:30	Start: 2019-11-18	End: 2019-11-18	Û
LOAD	S	CHEDULER NAME	P	PLAYLIST LOOP	START TIME	-	END CONDITION	

The created schedulers list gives information at a glance of the parameters set on each scheduler.

Pause/Play: Gives control of the scheduler. If a scheduler is paused, the status light will become yellow.

Load: Load scheduler into the Scheduler Editor to update or change any parameter

Status: Displays the status of the scheduler

- Green: Active Scheduler. An active scheduler still has instances to play
- Red: Expired Scheduler. An expired scheduler does not have any instances left to play.
- Yellow: Paused Scheduler. The scheduler will not play until it's active and the end condition is not met.

Scheduler name: Name set in the scheduler editor

Playlist name: Playlist selected in the scheduler editor

Play Count: Play Count is set in the scheduler editor, by default this is the same value configured in the playlist attributes.

Scheduler frequency: frequency set in the scheduler editor

Start time: Time set in the scheduler editor

Start date: Start date set in the scheduler editor

End condition: End condition set in the scheduler editor. To set an infinitely looping schedule, set the end time to be identical to the beginning

Delete: Delete selected scheduler

List of Schedules

NYE	*	Search items		
Create New Scheduler Scheduler 1				
NYE	play	list	¥	Loo

Lists all the schedules saved and shown in the created scheduler section. When an option is selected, its parameters are loaded into the scheduler editor.

To create a new scheduler, select "Create New Scheduler" option.

Schedule Name

Name to aid Schedule identification.

Selected Playlist

List of available Playlist to be scheduled.

Start Condition

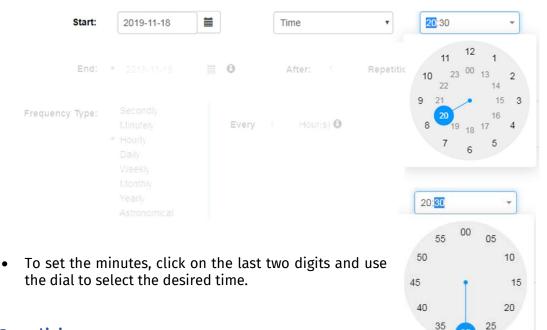
Set a schedule to start at a specific time, at sunrise or sunset. The sun phase is calculated based on the location set in the settings page. It takes into consideration:

- GMT Offset
- Latitude

• Longitude

To set the start of the scheduler to a specific time do the following:

- Select "Time" from the dropdown menu
- Click the first two digits on the second dropdown menu and set the hour using the dial. Note that the inner circle show hours past noon (>12) and the outer circle show hours before noon (1AM to 12).



End Condition

The scheduler will be expired once the end condition is met. It can be on a specific date or after a desired amount of repetitions.

Frequency Type

Set the frequency when the playlist set will play.

Frequency Type:	 Per Second Per Minute Hourly Daily Weekly Monthly Yearly Astronomical 	Every 1 Second(s)
	Save Scheduler	Delete

Per Second

Start the selected playlist after the specified seconds.

Per Minute

Start the selected playlist after the specified minutes.

Hourly

Start the selected playlist after the specified hours.

Daily

Start the selected playlist either every day or every number of days specified.

Frequency Type:	 Per Second Per Minute Hourly Daily Weekly Monthly Yearly Astronomical 	 Every Day Every 2 days
	Save Scheduler	Delete

Weekly

The selected playlist will play on the selected days every week or as specified in the text box. In the example, the playlist will play every week on Wednesdays and Tuesdays.

Frequency Type:	 Per Second Per Minute Hourly Daily Weekly Monthly Yearly Astronomical 		Monday Wednesday Friday Sunday		Tuesday Thursday Saturday	
-----------------	--	--	---	--	---------------------------------	--

Monthly

The selected playlist will play a specific day of every month as specified. In the example above, the playlist will play the 1st Day of every month.

Frequency Type:	 Per Second Per Minute Hourly 	۲	Day 1 v of every 1st v month								
	 Daily Weekly Monthly Yearly Astronomical 	۲	The	1st	v	Mon	nday 🔻	of eve	ry 1st	v	month

Yearly

The selected playlist will play a specific day of the year. In the example above, the playlist will play every year on the 1st of January.

Frequency Type:	 Per Second Per Minute Hourly 	۲	The	January	v	1	¥			
	 Daily Weekly Monthly 	0	On the	e 1st v) [N	londay	Ŧ	of	January	•
	 Yearly Astronomical 									

Astronomical

The selected playlist will play depending on the phase of the moon. In the example above, the playlist will play every new moon.

Frequency Type:	 Per Minute Hourly Daily Weekly Monthly 	 New Moon First Quarter Full Moon Third Quarter
	 Yearly Astronomical 	

¢

CANCEL

Network Mode: DHCP

Static IP: 10. 10. 10. 2 Netmask: 255.255.255. 0 Default Gateway: 10. 10. 10.254

SET

Setup

Changing the Network Settings

Changing the Network Settings Using LCD Interface

- 1. Use the up or down navigation buttons located next to the screen to move to the Settings tab
- 2. Use the down button to navigate to the Network settings page

The Network page can be used for the following:

- Enable or disable DHCP
- Set static IP value
- Set netmask
- Set Gateway

Use the arrows and enter keys to get the desired network settings



- 1. Toggle between DHCP and Static by pressing enter to change options and the up-down arrow to change between options
- 2. Press the Enter button to select and confirm each field of the IP address
- 3. Use the arrows to assign a number for each byte in IP; press on the right-left arrow to move in increments of 10, or use the up-down arrow to move in increments of one.
- 4. Once the desired IP is set, press enter button to move to Netmask settings
- 5. Repeat step 3 to set the desired netmask.
- 6. Once desired netmask has been set, press enter to specify the gateway settings (this can be set to any IP on the same Subnet as your S-play if a gateway is not required)
- 7. Press Enter to move out of network settings;
- 8. Use the arrows to navigate to the OK button and press Enter
- 9. All network settings assigned will get saved once the OK button is selected

Change IP Using the Web Interface

Change the Network settings between DHCP and Static IP, Netmask and Gateway. After modifying an IP address, it is good practice to power cycle the S-Play device.

DHCP:	Off						
IP Address:	10	ł	0		0	•	100
Ne <mark>t Ma</mark> sk:	255		0	•	0	-	0
Gateway:	10		0	1	0	П.	1

Network Interfa	ce 🕄	
DHCP:	On	
	Update Network Settings	

S-Play Output

Change outputs independently between ArtNet, sACN and DMX.

Universe 1:	DMX Port 1	~	Universe 2:	DMX Port 2	~	Universe 3:	ArtNet 3	~	Universe 4:	ArtNet 4	~
Universe 5:	ArtNet 5	•	Universe 6:	ArtNet 6	~	Universe 7:	ArtNet 7	•	Universe 8:	ArtNet 8	~
Universe 9:	ArtNet 9	•	Universe 10:	ArtNet 10	~	Universe 11:	ArtNet 11	~	Universe 12:	ArtNet 12	~
Universe 13:	ArtNet 13	•	Universe 14:	ArtNet 14	~	Universe 15:	ArtNet 15	•	Universe 16:	ArtNet 16	~
Universe 17:	ArtNet 17	~	Universe 18:	ArtNet 18	~	Universe 19:	ArtNet 19	•	Universe 20:	ArtNet 20	~
Universe <mark>21</mark> :	ArtNet 21	~	Universe 22:	ArtNet 22	~	Universe 23:	ArtNet 23	*	Universe 24:	ArtNet 24	~
Universe 25:	sACN 1	•	Universe 26:	sACN 2	~	Universe 27:	sACN 3	•	Universe 28:	sACN 4	~
Universe 29:	None	•	Universe 30:	None	v	Universe 31:	None	•	Universe 32:	None	~

Use the Default configurations option in the top part of the section to Select between Art-Net, sACN, DMX or No Output.

ArtNet Output Configuration

- Configure output refresh rate for all ArtNet output stream
- Set output ArtNet each of the 32 universes
 - Universe
 - Unicast IP address
 - Broadcast
- Save after any change by pressing "Update ArtNet"

e 32	Refresh Rate	e:				14	•	fps
	ArtNet 1:	Outpu	t:	Net:0	Subnet:0	Univ	erse:0	
	On Unio	cast	IP: 192	. 168			1	
sing								
				ate Art-Ne				

N.B. max refresh rate = 60FPS

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sACN output configuration

- Configure output refresh rate for all sACN output stream
- Set output sACN each of the 32 universes
 - Universe
 - Unicast IP address
 - multicast
- Save after any change by pressing "Update sACN"
- Generate sACN ID
- Set S-Play sACN priority

N.B. max refresh rate=60FPS

Change	Date	Time	and	Location

Set time, date and location. This information is critical when setting schedules.

Date & Time 0		Location 3
Set Date Manually:	Off	GMT offset : + - Hrs: 0 - Min: 00 -
Date :	28 🗸 July 🗸 2020 🗸	Latitude: 37 v ° 7 v 'North South
Time :	13 🗸 : 32 🗸	Longitude: 45 v ° 4 v 'East West
Time Zone:	GMT ~	Calculated: Sunrise: 08:05 Sunset: 22:10
	OUpdate Clock	Q Update Location

When the **Set Date Manually** is off and the S-Play is connected to an NTP server, the S-Play will automatically update the system time information upon power-up.

If the S-Play's system time is set manually the S-Play will stay locked to a set time. The user must manually update the time to reflect daylight saving time twice a year.

		(Tau)		
Refresh Rate:		60		fps
SACN 1 :	Output: 40			
Off Multicas	t IP: 239 . 255	. 0	. 1	
SACN ID:	ffa2-b0fa-80b4-4886-3	Gener	rate D	
Priority:	200			

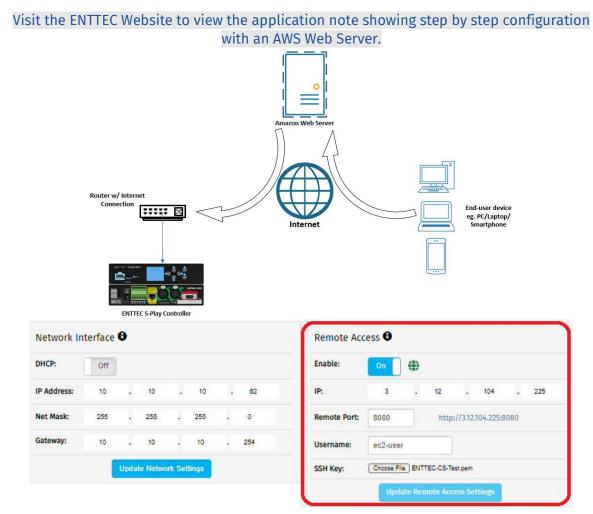
Configure Remote Access Using SSH Tunnelling - (Advanced Feature)

The S-Play allows the option for remote access through an SSH tunnel. This is a cost-effective method to access your device over the Internet.

Security Note – Internet Connection

- \triangle
- Before connecting your S-Play to the Internet ensure your local network firewall provides security all devices have been adequately secured.
- If ever unsure consult a qualified professional.
- Ensure you have sufficient extra bandwidth to deal with influxes of traffic caused by an internet connection.
- Ensure your SSH Tunnel is configured in such a way to ensure only trusted users can access the tunnel to remotely configure the S-Play.

This advanced feature requires a cloud server to be configured that will allow users to connect to it from anywhere in the world over the internet by navigating to a static URL via a browser and can be configured on the S-Plays Settings page.



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Factory Reset

A factory reset can be undertaken using either the web interface or LCD providing the user account is logged in. Performing a factory reset will result in:

- The Network settings returning to DHCP
- All cues, playlists and schedulers stored internally will be deleted
- The output universes will return to Art-Net
- Art-Net output will be set to broadcast
- sACN output will be set to multicast

Always take a backup before undertaking a factory reset.

Note: -Once a factory reset has been started the process will not stop until completion. -Do not remove power from the S-Play whilst a factory reset is in progress.



Following a sucessful factory reset and the S-Play re-booting, ENTTEC recommends removing power for 10 seconds, then re-plugging your device. Once it boots navigate to a 404 page on the device by modifying the URL to a page that doesn't exist on the S-Play (i.e. <u>http://10.0.0.100/en/404/</u>). This will automatically clear it's web cache.

Factory Reset Via LCD

- Navigate to settings
- Locate Reset to Defaults
- Select "RESET"



Factory Reset Via Web Interface

Go to settings page, scroll down to the end of the page and click "Reset to factory Defaults"

lick Reset to clear all u	ser-entered configuration and	I return to factory defaults. After n	setting, the	
 Web password w 	l be admin			
	pe reset (if set to DHCP)			
 All cues and play 	sts will be reset			
Varning: This will RES	T all options, settings & show	vs to Factory Defaults		
withing. This will read	an options, settings a short	is to ractory benants		

Backup

S-Play produces a package that includes:

- ✓ Cues
- ✓ Playlist
- ✓ Schedules
- ✓ Settings

The backup can be done via LCD and web interface.

Go to Backup page, click "Backup". The process produces a *.bak* package that can be downloaded and saved to any location in your computer.

kup succeed
Settings Restore
Note! Please make sure you are using the correct file For example: <i>backup_IP_Address.sbak</i>
Warning! This wil REPLACE all options, network settings & cue/playlist configurations on this unit.
Internal

Settings Restore

Restore

Use the created .bak file to restore cues, playlists, schedules and output settings.

Go to the *Backup* menu in the web interface

- Select the desired memory location (internal or external)
- Click browse and look for the .bak file
- Insert and click on restore

Igs.

Note! Please ensure you are using the correct file

For example: backup_IP_Address.sbak

Warning! Restoring will REPLACE all current network settings &

cue/playlist configuration on this unit.

.bak

internal

Browse

Deckup File: backup_10_10_10_69 (1).bak is selected

Selected File Name: backup_10_10_069 (1).bak

Once the restore is complete, a confirmation message will appear on the top of the page.

Show Storage

Static Cue

Snapshots are comprised of a single DMX frame. The maximum file size of a frame of one universe with associated metadata is 518 bytes. To calculate the file size of a Static Cue.

To calculate the theoretical file size of a static cue, multiply 518bytes by the quantity of universes you intend to capture as part of the static cue. This calculation will give a file size in bytes.

((518 bytes) * (Quantity of Universes to be captured)) = Static Cue Size (bytes)

Dynamic Cue

A dynamic cue can be thought of as a stream of Static Cues. To calculate the theoretical file size of a Dynamic Cue the size of a single 1 universe DMX frame (518 bytes) should be multiplied by the quantity of universes being captured, the quantity of frames being recorded per second and duration of recording (in seconds).

((518 bytes) * (Quantity of Universes) * (Frames per Second [produced by the DMX source]) * (Intended Recording Length [seconds])) = Dynamic Cue Size (bytes)

Triggers & Events

Triggers and Events each have a maximum file size of 1Kb (1000bytes). To calculate the theoretical storage size all Triggers and Events your configuration will occupy, multiply the total quantity of Triggers and Events you will use by 1Kb.

((1000 bytes) * (Quantity of Triggers and Events)) = Total Trigger and Event Size

Select Storage

S-Play contains internal memory of 8GB+. However, if the storage is getting full, the user can switch memory to an external Class 10 SD Memory card designed for high load video recording is used. (i.e. Samsung Pro Endurance series).

S-Play can only operate from a single memory source so make sure to move all the files from the internal memory to the external SD card. To do so, please refer to the next section in the user manual "Export Playback Data"

Note! Chang	e storage which stores all	cues, playlists, schedules and
settings.		
	(m.	
	sd	Ŧ

When a SD card is inserted into the S-Play it will be wiped and re-formatted to support the Linux EXT3 file format before shows are saved onto it. Ensure all files are removed from your SD card before inserting it into the S-Play.

Export Playback Data

The Export Playback Data function moves:

- Cues
- Playlists
- Schedules

from the internal memory to an external SD card inserted in the front slot of the unit or vice versa.

When moving files across make sure the desired storage is selected in "Select Storage" section on the web interface.

The files are copied from one location to another. Which means that they are not deleted from the original location.

The status of both memory devices can be tracked down in the "Status" page.

Note! Export data from	one storage to a	nother replacing pre	vious
playback data on target		notice replacing pre	nous
	an ann an an the the the		
From	sd	*	
To:	internal		

Locking the S-Play and User Management

S-Play includes a locking system to prevent settings, playlists, cues and schedulers from being modified.

How To Use The Lock Feature

Out of the box, S-Play is unlocked which means when connected to a network any computer within the network can change settings, create cues, create playlists, trigger playlists, etc.

If the lock on the top right corner of the screen is open, as shown below, the unit is unlocked and accessible within the network.

ENTTEC

Home Cue Library Events Triggers

					EN	CN	user -	i.
Playlists	Scheduler	Settings	Status	Backup	De	c 16 2	020 18:55:40 P	м

To lock the unit, simply click on the padlock in the top right-hand corner of the user interface and the unit will automatically disable all the tabs but home.

/	1 My Play	list 1	100	00:40.67	1	Playing		00:56
1	2 My Play	list 2	66 🕨 🔳	00:20.72	6	Paused		01:00
1	3 My Play	list 3	33 🕨 🔳	Stopped				01:00
1	4 My Play	list 4 🔅	0 🕨 🔳	Stopped				01:00
		All Pla	vlists 🕨 🔳					
				Sc	chedulers			
"	Activated	My Schedule 1	My Playlist 1	Infinity	Frequency: Hourly	Time: 0:00	Start: 2020-12-17	End: After 1
	 Activated 	My Schedule 2	My Playlist 2	Infinity	Frequency: Daily	Time: Sunrise	Start: 2020-12-16	End: After 10

When the S-Play is locked, users can:

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- Play and Stop any playlist
- Play and Stop all playlists
- Pause and Resume Schedules
- Navigate the LCD to preview cues, activate playlists and **display** settings

To enable full functionality the user account must be logged in.



When a user is logged in, the unit can remain locked for the rest of the users accessing from other locations/browsers. Within the network. However, the unit will ensure that only one browser is open at the same time when accessing "Home", "Cue Library" and/or "Playlist Page". This is to avoid having conflicting commands that can jeopardize any part of the recording process.

To unlock the S-Play, simply click on the padlock icon on the top right corner of the web interface.

Default Login and Passwords

USERS	DEFAULT PASSWORD
User	123456



Before setting a password take a full backup of your show data and settings. If the password is forgotten or lost, contact the ENTTEC support team for assistance to use the **Admin** log-in functionality. A full factory reset of the device is the only method to return the password to default.

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Status

				Net	work Inforn	nation 🖯					
IP Address	5 0		10.10.10.118								
Subnet Ma	ask:		255.255.255.	0							
Broadcast	Address:		10.10.10.255								
Serial No.	/ Mac Address	E.	00:50:C2:07:	F0:73							
				Οι	Itput Inform	ation					
	Universe 1	Universe 2	Universe 3	Universe 4	Universe 5	Universe 6	Universe 7	Universe 8	Universe 9	Universe 10	
Protocol	ArtNet	ArtNet	ArtNet	ArtNet	ArtNet	ArtNet	ArtNet	ArtNet	ArtNet	ArtNet	
Universe	0	1	2	3	4	5	6	7	8	9	
IP Address	192.168.0.1	<mark>1</mark> 92.168.0.1	192.168.0.1	<mark>1</mark> 92.168.0.1	192.168.0.1	<mark>1</mark> 92.168.0.1	192.168.0.1	<mark>1</mark> 92.168.0.1	192.168.0.1	<mark>1</mark> 92.168.0.1	
				Sy	stem Inform	ation 🖯					
System St	atus:		V STARTE	D		STOP ENGINE	REBOOT				
Activity:			No Playlist in	Playing							
CPU Statu	IS:		Load: 16.8 %	Temp: 34.	∋°C						
			5.58 % used								
Disk Spac	e:		SD (Internal) 7.39 GB free out of 7.81 GB 5.39 % used								
			sd mounted o	n Wed 23 Oct	12:25:18 AED	T 2019			13.76 GB free	out of 14.53 G	38
System Na	ame: 🖸		S-PLAY								
System Up	ptime:		1 day, 16 mir	nutes							
Hardware	ID:		165166cb0a8	18b9b							
				Sof	tware Inforr	nation 🖯					
Software v	version:		19092018-92 (updated: 19/09/2018)								
	er version:		version: 1.41								

© 2019 ENTTEC | Enttee Web | Contact us The Status page displays the following information:

Network Information

- IP Address
- Subnet Mask
- Broadcast Address
- MAC Address
- Engine Address

Output Information

- Protocol
- Universe •
- Output IP Address, (if applicable)

System Information

- Status
- Activity •
- CPU Status
- Disk Space (internal and external)
- System Uptime
- Hardware ID

Software Information

- Software Information
- DMX Driver Version

Using Motion Sensors with the S-Play

Diagram

CONNECTION



ΕΝΤΤΕΟ					EN CN Login 🔒
н	ome Cue Library	Events Triggers	Playlists	Scheduler Settings Status Backup	Feb 9 2021 02:42:52 AM
ID Protocol	Name	Q Search	+	Trigger Name 🚯 GPIO Trigger	
2 Digital Input	GPIO Trigger			Input Type 🚯 Digital Input	v
				 Idle position for digitals input is high A Trigger is registered when the circuit is completed (low). When used in a playlist, the S-PLAY will wait to receive the Trigger below before continuing. 	
				Input 🚯 3	DELETE TRIGGER

Steps

- 1. Connect a dry input from sensor to Port3 (or any other port), in the GPIO trigger connector in S-Play.
- 2. Connect OV (GND) from the S-Play GPI through the connector in the S-Play.
- 3. Go to web interface:
 - Go to Triggers
 - Create a new entry.
 - Select Digital Input from **Type**
 - Change to Port 3 in "Ports" (or to the corresponding port the OUT cable was connected to).
 - You can use the **Test Trigger** option to ensure functionality.
 - Click on **Save Trigger** for it to be saved ready for use on the Playlists page.
- 4. Navigate to the Playlists Page.

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ΝΤΤΕΟ				EN CN Login
Home Cue I	Library Events Triggers I	Playlists Scheduler Settings	Status Backup	Feb 9 2021 03:11:16
1 Playlist 1	100	Stopped		00: 30
	All Playlists			
Q Search 🗰 Static cue	📽 Dynamic cue 🔅 Effects	Events 🕒 Triggers	0. 000 - 5 Fade in	30.000 0.000 Fade out
GPIO Trigger			🎤 Playlist 1	0
			^{Start Trigger} ⊣→ GPIO Trigger	^{Stop Trigger} No Trigger →
			Infinity	Internal Priority 100
			🖳 Hide from Home	Group 0
15.	000 으 GPIO Trigger		0, 0,	
← → 00:00	05 10	15	20 2	25 30
100 CO				
100				
100				
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Events Triggers		CT X		
1155013				
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5. The Trigger can be selected as a 'Start Trigger' to commence playback of a certain playlist and/or dragged onto the timeline to act as a condition that must be met for playback to continue.



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