SD-Player 8

User Manual

DMX4ALL®

Contents

Important Notes

For your own safety, please read this user manual and warnings carefully before installation.

A Firmware Update is recommended after receiving the item. This is the only way to ensure that the device has the latest version. The latest firmware is available on the homepage.

The latest version of the DMX-Configurator is available as a free download on our website dmx4all.de.

Description

The **SD-Player 8** is a Stand-Alone DMX- or LED-Pixel-Player.

Settable Output
The output of the SD-Player 8 can be set between DMX and various LED control signals. So, DMX devices or digital LED strips with individual controllable LEDs, can be controlled directly from the SD-Player 8.

Several LED-Protocols
The SD-Player 8 promotes different LED-Protocols.
A list of the possible LED protocols is shown in the technical data.

Settable Color Sequence
The RGB color sequence is adjustable for flexible use. It is also possible to control RGBW pixels. Furthermore, a SingleColor Option can be selected in which each pixel only needs one channel.

Settable Pixel Groups
Pixel groups with adjustable length are supported. Each pixel group behaves like a single pixel controlled via 3 DMX channels (RGB) or 4 DMX channels (RGBW).

RGB LED-Display
The LED status display on the SD player 8 is designed with an RGB LED.

IR-Sensor
The SD-Player 8 can be operated via IR remote control using the built-in IR sensor. The IR commands are freely configurable.

DMX-Remote
A DMX signal can be used to control the SD-Player 8.
So, programs or cue lists can be selected via several DMX channels and the speed and brightness settings can be made.

External and internal switch contact
Functions can be freely configured for the external and internal switching contact, such as "Next program".

Easy Configuration
A user friendly configuration occurs via configuration files within the text format (TXT).

Several File Formats
Various file formats can be used for the programs, PRG (DMX-Configurator), TP2 (Jinx) or FSEQ.

Programming by SD-Card
Programming is exclusively via an SD card possible.
This means that all settings are available depending on the project.

Firmware-Update-Function
To be able to use future functions, the SD-Player 8 offers a firmware update function.

Din rail housing available
The top-hat rail housing 350 or 350 flat is available as an acessory for the SD-Player 8.

Data Sheet

Power supply:	8-24V / ~ 50mA (external power supply or from LED-Stripe)
Output:	Control signal for digital LEDs or DMX-Signal with 512 channels
Supported LEDs:	APA-101, APA-102, APA-104 DycoLED PB3, DycoLED PC5 GS8202 INK1002, INK1003 LC8808, LC8808B, LC8823 LPD1101, LPD6803, LPD8803, LPD8806 LPD1886 8Bit, LPD1886 12Bit (8Bit controlled) SK6812 RGB, SK6812 RGBW, SK6822, SK9822 SM16703 TM1804, TM1812, TM1814 (RGBW), TM1829, TM1934 UCS1903, UCS1912, UCS2903, UCS2912 UCS9812 (8Bit control), UCS9812 (16Bit control) WS2801, WS2811, WS2812, WS2812B, WS2813 WS2815, WS2818, WS2821
Color sequence:	RGB, RBG, GRB, GBR, BRG, BGR SingleColor white, red, green, blue RGBW
Pixel groups:	settable, 1 – 127 Pixel / All
Inputs:	Digital LongDistance control input with DMX-Functionality IR-Sensor
Connection:	Screw terminals
Program memory:	MicroSD-Card up to 16GB (Accessory)
Program number:	max. 999 Programs or Cue-Lists
File format:	TXT Configuration PRG Programs with DMX-Configurator TP2 Programs with Jinx (TPM2/TPM2NET) FSEQ Programs (V1; UNCOMPRESSED)
Operation:	Button and RGB-LED-Display on the device IR-Remote control (Accessory)
Further Functions:	RGB-Filter Free configurable IR-Commands Configurable maximum speed Firmware-Update-Function
Dimension:	29,2mm x 82mm

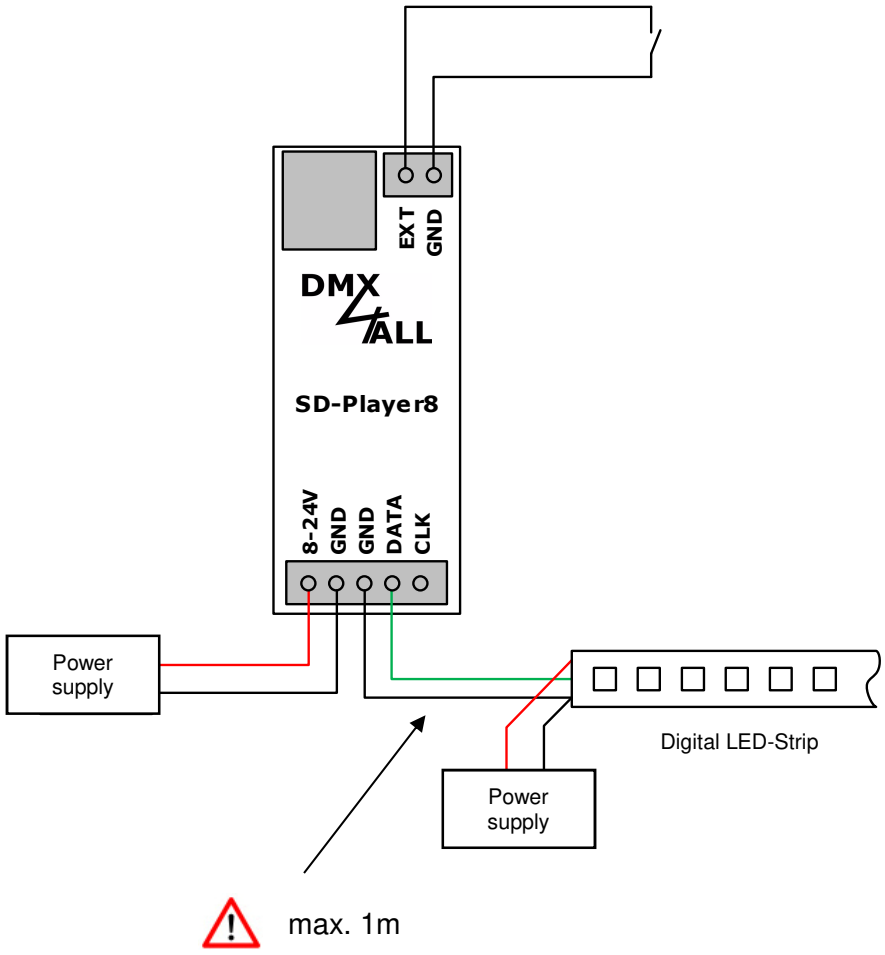
Content

1x SD-Player 8
1x Quick guide german / english

Connection

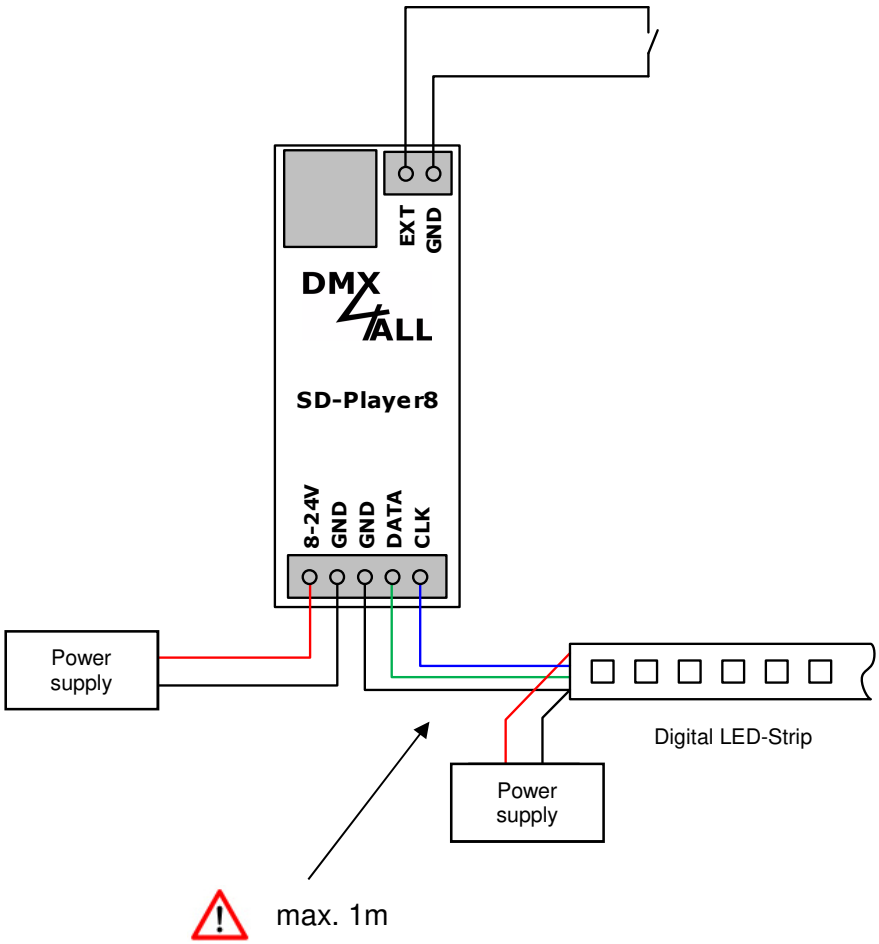
Connection of digital LEDs with one control signal (DATA)

For digital LEDs with **one** control only DATA and GND must be connected (e.g. WS2811 / SK6812 / APA-104 / TM1804).



Connection of digital LEDs with two control signals (CLK+DATA)

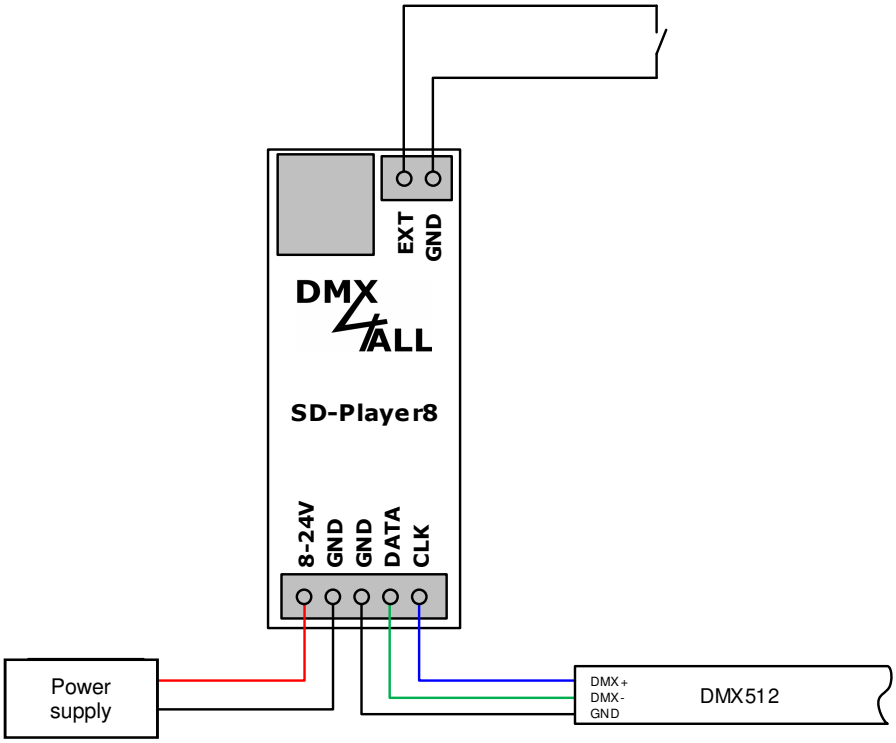
For digital LEDs with **two** control signals DATA, CLK and GND must be connected (e.g. WS2801 / APA-102 / SK9822).



Connecting DMX-Devices

For controlling DMX devices the signal is outputted at DATA (DMX-) and CLK (DMX+).

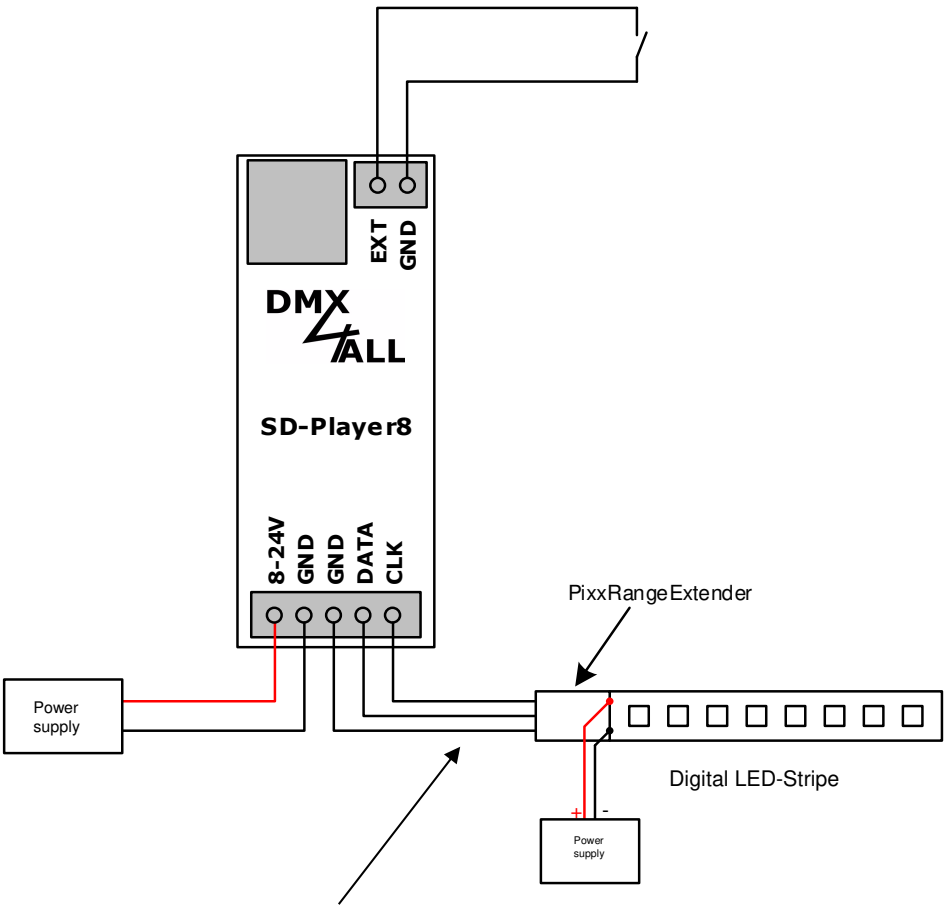
Also DMX enabled LEDs can be controlled via DMX (e.g. WS2821).



Connection with long data lines

With longer data lines (longer than 1m) and using digital LED stripes, the use of a PixxRangeExtender is recommended to prepare the control signal and isolate the individual areas.

For this, the PixxRangeExtender is connected directly before the signal input of the digital LED stripe.



Also longer data lines are possible
with the PixxRangeExtender
(not recommended for over 50m)

Power supply with several LED-Stripes

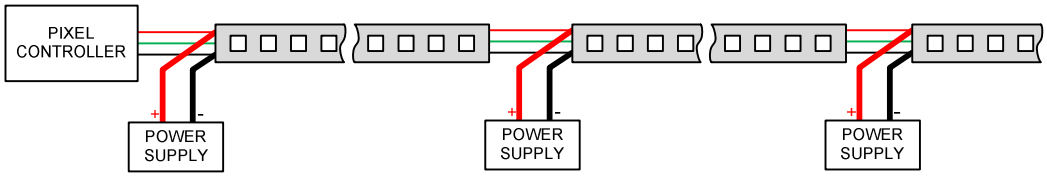
Generally digital LED-Stripes are operated with a power supply of 5V.
Relatively high currents for the complete installation are the result.

A voltage drop occurs on the digital LED-Stripe itself, so little by little the brightness reduces. Furthermore, this is the reason for different color reproduction in case of using RGB/RGBW-Stripes. A steady feed of voltage is necessary.

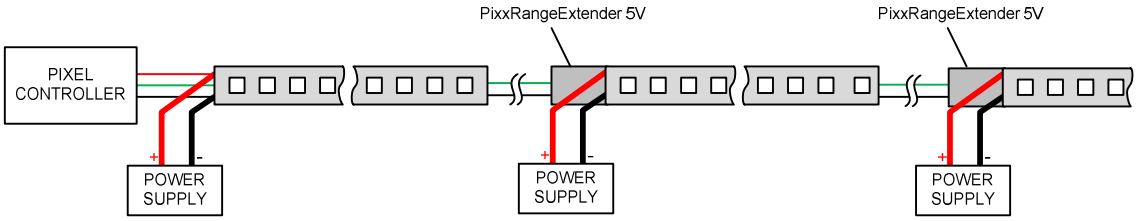
Several decentral power supplies or one central power supply can be used for voltage/power supply. The cross-sections of the supply lines to the digital LED-Stripe must be sufficiently dimensioned !

Connecting LED-Stripes with several power supplies

If several power supplies are used, these can be installed decentrally. The supply lines can be shorter in this case.

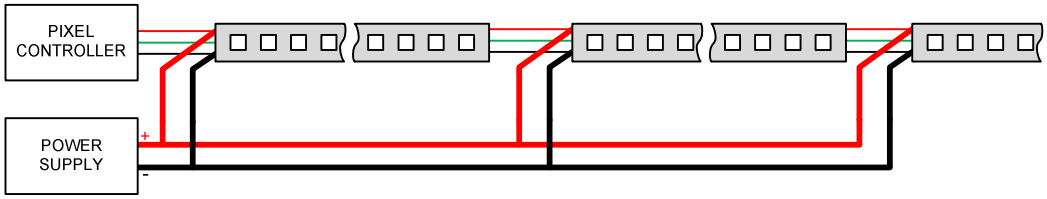


In case of long distances within the installation the PixxRangeExtender 5V can be used to purify the control signal and to isolate single areas.



Connecting LED-Stripes with one power supply

The supplies must be calculated adequately in its dimension if only one power supply with the needed high power is provided. To ensure a low voltage drop on the cable route this is necessary.



RGB-LED-Display

The **SD-Player 8** has a RGB-LED-Display, showing the device status.

Off	Power supply not connected
RED lights up	No SD-Card
RED flashes	No program / cue list on SD card
GREEN lights up	Device works normally No program is played
GREEN flashes	Device works normally A program is played The flashing speed depends on the playback speed
BLUE lights up	Firmware-Update is running
BLUE flashes	Firmware update can be started / Device has received an IR command
PINK flashes	An error was detected in the configuration file

Micro-SD Card

The **SD-Player 8** needs for program storage a Micro-SD card, which is available as accessory (not included in delivery). It is to insert underneath the IR sensor with the contacts downwards.

When inserting the Micro-SD card, push it into the slot until you hear a click and feel resistance.

When removing the Micro-SD card, press it again until you a click sounds. The card is now pushed out ca. 2mm and can be removed.

Please use only SD cards or SDHC cards of Class4 or higher, maximum 16GB.

The SD card must be formatted with the FAT16 or FAT32.

File naming

To use the files from SD card with the SD-Player 8, these must be named according to the following specifications so that they can be used by the SD player 8.

config.txt	Configuration File
PRG001.prg PRG002.prg : : : PRG999.prg	PRG program file from DMX-Configurator
PRG001.tp2 PRG002.tp2 : : : PRG999.tp2	TPM2- or TPM2NET program file e.g. Jinx
PRG001.fseq PRG002.fseq : : : PRG999.fseq	FSEQ program file V1 or UNCOMPRESSED
CUE000 CUE001 : : : CUE999	Folder for Cue-Liste
error.txt	Error information generated by SD-Player 8

Device Settings

The device settings must be specified in the config.txt file in the main directory (root) of the SD card.

After starting SD-Player 8 or after inserting the SD card, the configuration file config.txt is read and the settings are used. If the file is not present on the SD card, the saved device configuration is used.

The settings are specified by parameters. The individual parameters are specified one after the other in any order in the file.

If a parameter is not available, the default value is used.

If a parameter is incorrect (incorrectly written parameter name or value), it is not taken into account and error information is stored in the error.txt file.

The following specifications apply to the formatting of the configuration file:

- All lines must end with a line break (CR+LF or LF)
- Each parameter must end with a ; (semicolon)
- Upper and lower case are not relevant
- Spaces or tabs stay unconsidered
- Blanks are not relevant
- Comments can be included in the configuration file
  These start with // and can be used at the beginning of a line or after parameters

Formatting parameters is as follows:

Parameter = Value;

Parameter = Value; // ***comment***

// ***comment***
Parameter = Value;

Parameters can also be commented out so that they are not used.
The notation is as follows:
// **Parameter = Value;**

The possible parameters with the corresponding values are listed below:

Parameter	Value	Description
OUTPUTTYPE=	DMX512	Sets the output protocol
	APA101	Default: SK6812
	APA102	
	APA104	
	DYCO_PB3	
	DYCO_PC5	
	GS8208	
	INK1002	
	INK1003	
	LC8808	
	LC8808B	
	LC8823	
	LPD1101	
	LPD1886_8	
	LPD1886_12	
	LPD6803	
	LPD8803	
	LPD8806	
	SK6812	
	SK6822	
	SK9822	
	SM16703	
	TM1804	
	TM1812	
	TM1814	
	TM1829	
	TM1934	
	UCS1903	
	UCS1912	
	UCS2903	
	UCS2912	
	UCS9812_8	
	UCS9812_16	
	WS2801	
	WS2811	
	WS2812	
	WS2813	
	WS2815	
	WS2818	
	WS2821	

Parameter	Value	Description
GROUPSIZE=	1..127	Sets the size of a pixel group
	ALL	Default: 1

Parameter	Value	Description
COLORSEQUENCE=	RGB	Sets the color sequence
	RBG	Default: RGB
	GRB	
	GBR	
	BRG	
	BGR	
	R	
	G	
	B	
	W	
	RGBW	

Parameter	Value	Description
PIXELCOUNT=	10..1365	Sets the number of LED-Pixel
		Default: 1365

Parameter	Value	Description
BRIGHTNESS=	0..255	Sets the master brightness when switching on
	LAST	Default: 255

Parameter	Value	Description
BRIGHTNESS_R=	0..255	Sets the brightness for RED when switching on
	LAST	Default: 255

Parameter	Value	Description
BRIGHTNESS_G=	0..255	Sets the brightness for GREEN when switching on
	LAST	Default: 255

Parameter	Value	Description
BRIGHTNESS_B=	0..255	Sets the brightness for BLUE when switching on
	LAST	Default: 255

Parameter	Value	Description
BRIGHTNESS_W=	0..255	Sets the brightness for WHITE when switching on
	LAST	Default: 255

Parameter	Value	Description
SPEED=	0..255	Sets replay speed when switching on
	1..200fps	Default: 128

Parameter	Value	Description
MAXFPS=	1..250	Sets the maximum playback speed
		Default: 200fps

Parameter	Value	Description
AUTOSTART=	PRGxxx	Specifies the to be played back Program or Cue-List
	CUExxx	Default: NO AUTOSTART
	LAST	

Parameter	Value	Description
CONFIG:SAVE=	1	Stores the configuration in SD-Player 8

Programs

Programs replayed by SD-Player 8 must be located in the root directory (Root) of the SD card.

The files must be named PRGxxx, where xxx is the program number starting with 001.

The file extension can be .prg, .tp2 or .fseq, depending on the format of the program file.

The programs are called up by the value (`PRGxxx`) of a parameter in the configuration, where xxx corresponds to the program number of the file.

Additional settings can also be made when calling up a program. These must be entered after the program number in a fixed sequence separated by a comma:

`PRGxxx,speed,master,red,green,blue,white,repeat;`

`xxx`	Program number Valid Values: 001..999
`speed`	Playback speed Valid Values: 1..255 or 1fps..200fps (MAXFPS=200)
`master`	Playback brightness Valid Values: 0..255
`red`	Red content RGB-Filter Valid Values: 0..255
`green`	Green content RGB-Filter Valid Values: 0..255
`blue`	Blue content RGB-Filter Valid Values: 0..255
`white`	White content RGB-Filter Valid Values: 0..255
`repeat`	Setting if the running program should be restarted when it is called up again Valid Values: DISABLE_RESTART, ENABLE_RESTART (Default)

If a setting is to remain unchanged when called up, the entry must remain empty and the separating **,** (comma) must still be specified!

Cue-Lists

With the CueList it is possible to playback program files in a row and in a specific sequence and duration.

Within the SD-Card there must be a folder named CUExxx. Xxx is the Cue number beginning with 001.

The program files that are to be played in sequence must then be stored in this folder. The files must be named with PRGxxx. xxx is the program number starting with 001.

A configuration file (config.txt), which is available in the CUE folder, is used to define any playback sequence and duration.
If the configuration file is not available, all consecutive program files are played back. After the last program file has been played, the first file is played again.

In the configuration file, the programs are specified in a row in the order in which they are to be executed.

The program number and other settings are specified as follows:

Program from CUE folder:
`PRGxxx,speed,master,red,green,blue,white,repeat;`

Program from main index (Root):
`../PRGxxx,speed,master,red,green,blue,white,repeat;`

The repeat information differs:

`repeat` Setting, how long the program should be played back
Valid Values: 1-255 Number of runs
1s-255s Playback time in seconds
ENDLESS Endless playback

Additional parameters are also available which can be specified between the programs:

Parameter	Value	Description
DISABLE_RESTART		Avoids the CUE-List from restarting
ENABLE_RESTART		Allows the CUE-List from restarting
STOP		Stops the replay of the CUE-List
WAIT_TRIGGER		Waits for the TRIGGER before the next program in the CUE list is executed

Execute a program after turning on

After turning on a specific or the last used program / cue list can be replayed.

Therefore, the parameter `AUTOSTART` must be set within the configuration file.

When calling up a program `speed,master,red,green,blue,white` also the value **`LAST`** can be set. In case of the value **`LAST`** before shut down is used.

The formatting of the parameter is as follows:

`AUTOSTART=PRGxxx,speed,master,red,green,blue,white;`

`AUTOSTART=LAST,speed,master,red,green,blue,white;`

`AUTOSTART=CUExxx;`

Error Information

If a parameter in the configuration file is incorrect (parameter name or value incorrectly written), it will be not considered and an error information will be generated within an error.txt file.

The file error.txt will be deleted after restart or inserting the SD card, so only the latest error information is available.

The Error entries are as follows:

```
Parameter unknown [PARAMETER=VALUE;]
```

➔ The entered parameter is not correct

```
Wrong Value [PARAMETER=VALUE;]
```

➔ The entered value is not correct

Create Programs

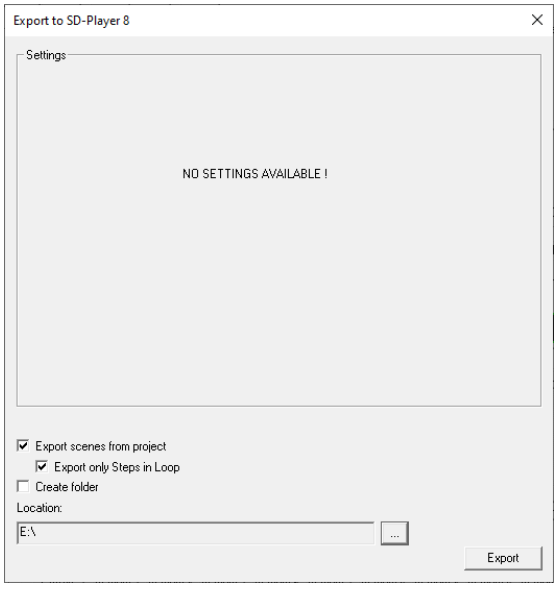
The program files can be created for the SD-Player 8 with the software DMX-Configurator. Alternatively, TPM2 or TMP2.NET files can be used.

Program files with DMX-Configurator

The DMX-Configurator is available in the current version as free download on our website dmx4all.de.

Creating programs is described in the DMX-Configurator manual.

After the programs are created, the export is to be done in the menu ***Project→Export→SD-Player 8***:



The activated export options specify which elements are to be exported.

Export scenes from project	The scenes contained in the project are exported
Export only Steps in Loop	Only the steps contained in a loop are exported
Create folder	Creates the exported files in a folder that is created. This option offers the possibility to save the exported files per project on a disk.

Under ***...*** the path is to specify where the files should be written.
Please choose directly the SD-Card and don't create a folder to use the SD card directly in the SD-Player 8 subsequently!

Export starts the export process.

Pixel Groups

The **SD-Player 8** promotes pixel groups with an adjustable length.

Each pixel group behaves like a single pixel controlled with 3 DMX channels (RGB) / 4 DMX channels (RGBW) or 1 DMX channel (Single color).

According to the selected LED protocol a different number of pixel can be connected at the output (controlled pixel):

LED-Protocol	max. Pixel/Pixel group	max. controlled Pixel
RGB		
APA-101	1360	16318
APA-102	1360	8158
APA-104	1360	2719
DycoLED PB3	1360	16318
DycoLED PC5	1360	10442
GS8208	1360	2719
INK1002 / INK1003	1360	2719
LC8808 / LC8808B	1360	2719
LC8823	1360	8158
LPD1101 / LPD6803	1360	16318
LPD1886 8Bit	1360	3626
LPD1886 12Bit (8Bit controlled)	1360	2719
LPD1886 12Bit (12Bit controlled)	680	2719
LPD8803 / LPD8806	1360	10879
SK6812 / SK6822	1360	2719
SK9822	1360	8158
SM16703	1360	2719
TM1804 / TM1812	1360	2719
TM1829	1360	2719
TM1934	1360	2719
UCS1903 / UCS1912	1360	2719
UCS2903 / UCS2912	1360	2719
UCS9812 (8Bit controlled)	1360	1554
UCS9812 (16Bit controlled)	680	1554
WS2801	1360	10879
WS2811 / WS2812 (B)	1360	2719
WS2813 / WS2815 / WS2818	1360	2719
WS2821*	170	170
RGBW		
SK6812	1024	2040
TM1814	1024	2036
UCS2912	1023	2040

* = No Pixelgruppe available

Digital Control Input

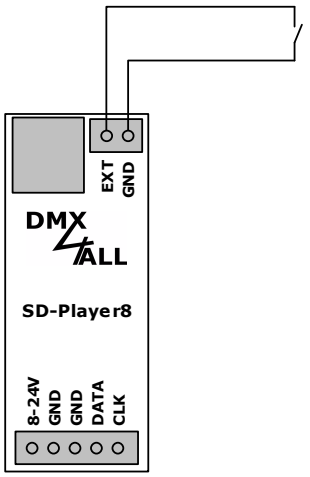
The digital control input can be used to trigger various functions, such as switching the program forward.

For the Configuration four states are …..

SHORT	Short triggering e.g. for program forwarding
LONG	Lange triggering e.g. for Up-/Down dimm
ON	Permanent triggering e.g. for program switch (day program)
OFF	Permanent not triggering e.g. for program switch (night program)

The EXT digital control input is designed as a LONG DISTANCE input, which makes it possible to use longer supply lines to the switching elements.
It is recommended not to exceed a cable length of 50m.

The input is wired with a push-button (NO contact) to GND as shown in the following layout:



Internal Button (Button)

The button on the SD-Player 8 can be configured independently. The same functions are available for this as for the digital control input.

The following parameters are available to configure the digital control input (EXT) and internal button (Button):

Parameter	Value	Description
BUTTON:SHORT=	PRG_UP	Specifies the function of the button (Button) or External input (EXT)
BUTTON:LONG=	PRG_DOWN	
BUTTON:ON=	ON	
BUTTON:OFF=	OFF	
EXT:SHORT=	ON_OFF	
EXT:LONG=	SPD_UP	
EXT:ON=	SPD_DOWN	
EXT:OFF=	SPD_UP_DOWN	
	DIM_UP	
	DIM_DOWN	
	DIM_UP_DOWN	
	SET_FREEZE	
	CLR_FREEZE	
	TOGGLE_FREEZE	
	TRIGGER	
	SPDxxx	
	DIMxxx	
	PRGxxx	
	CUExxx	

The SHORT and LONG parameters as well as ON and OFF can be combined with each other.
Other combinations are not recommended.

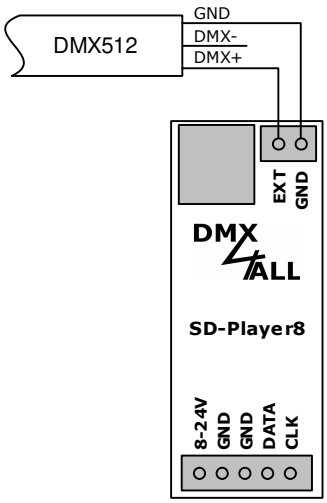
If a program and a cue list with the same number exist, the cue list is always output with PRG_UP and PRG_DOWN.

Remote per DMX

The digital control input can also be used as a DMX input to control the SD-Player 8 via DMX remote over a total of 9 DMX channels

In this case, the parameter `EXT=DMX;` must be specified in the configuration.

The input is wired with DMX as follows:



The following parameters are available for configuration:

Parameter	Value	Description
`EXT=`	`DMX`	Sets the control input to DMX remote

Parameter	Value	Description
`DMX:START=`	`1-512`	Sets the DMX remote start address Default: 1

Parameter	Value	Description

`DMX:FAIL=`	`HOLD`
	`OFF`
	`PRGxxx`
	`CUExxx`
		Specifies the event in case of a DMX failure
		Default: HOLD

If a program and a cue list with the same number exist, the cue list is always output.

DMX Channel	Function	Value	Description	
1	Program LOW	0-7	PRG1	
		8-15	PRG2	
		16-23	PRG3	
		24-31	PRG4	
		32-39	PRG5	
		40-47	PRG6	
		48-55	PRG7	
		56-63	PRG8	
		64-71	PRG9	
		72-79	PRG10	
		80-87	PRG11	
		88-95	PRG12	
		96-103	PRG13	
		104-111	PRG14	
		112-119	PRG15	
		120-127	PRG16	
		128-135	PRG17	
		136-143	PRG18	
		144-151	PRG19	
		152-159	PRG20	
		160-167	PRG21	
		168-175	PRG22	
		176-183	PRG23	
		184-191	PRG24	
		192-199	PRG25	
		200-207	PRG26	
		208-215	PRG27	
		216-223	PRG28	
		224-231	PRG29	
		232-239	PRG30	
		240-247	PRG31	
		248-255	PRG32	
2	Program HIGH	0-7	PRG PAGE 1	(PRG1-32)
		8-15	PRG PAGE 2	(PRG33-64)
		16-23	PRG PAGE 3	(PRG65-96)
		24-31	PRG PAGE 4	(PRG97-128)
		32-39	PRG PAGE 5	(PRG129-160)
		40-47	PRG PAGE 6	(PRG161-192)
		48-55	PRG PAGE 7	(PRG193-224)
		56-63	PRG PAGE 8	(PRG225-256)
		64-71	PRG PAGE 9	(PRG257-288)
		72-79	PRG PAGE 10	(PRG289-320)
		80-87	PRG PAGE 11	(PRG321-352)
		88-95	PRG PAGE 12	(PRG353-384)
		96-103	PRG PAGE 13	(PRG385-416)
		104-111	PRG PAGE 14	(PRG417-448)
		112-119	PRG PAGE 15	(PRG449-480)
		120-127	PRG PAGE 16	(PRG481-512)
		128-135	PRG PAGE 17	(PRG513-544)
		136-143	PRG PAGE 18	(PRG545-576)
		144-151	PRG PAGE 19	(PRG577-608)
		152-159	PRG PAGE 20	(PRG609-640)
		160-167	PRG PAGE 21	(PRG641-672)
		168-175	PRG PAGE 22	(PRG673-704)
		176-183	PRG PAGE 23	(PRG705-736)
		184-191	PRG PAGE 24	(PRG737-768)
		192-199	PRG PAGE 25	(PRG769-800)
		200-207	PRG PAGE 26	(PRG801-823)
		208-215	PRG PAGE 27	(PRG833-864)
		216-223	PRG PAGE 28	(PRG865-896)
		224-231	PRG PAGE 29	(PRG897-928)
		232-239	PRG PAGE 30	(PRG929-960)
		240-247	PRG PAGE 31	(PRG961-992)
		248-255	PRG PAGE 32	(PRG993-999)
3	Speed	0-255	Slow → Fast	
4	Complete brightness	0-255	0% → 100%	
5	Brightness Red	0-255	0% → 100%	
6	Brightness Green	0-255	0% → 100%	
7	Brightness Blue	0-255	0% → 100%	
8	Brightness White	0-255	0% → 100%	
9	Trigger	Run Trigger, if value switches from smaller 128 to higher 127		

IR-Remote Control

An optional IR remote control can be used to control the SD-Player 8.
With free configurable NEC-IR-Commands it is possible set the needed functions for the remote control.

The following preconfigured IR remote control is available as accessory:

Program / Select cue list
By using the buttons 1 to 9, the programs or the cue list **1** to **9** can be called up directly.
After pressing ***SELECT PROG***, the programs / cue lists are called up in a row using the **+** and **-** buttons.

Output on / off
BLACK OUT switches the output off and on again, when pressed again.

Set replay speed
After pressing ***SPEED***, the playback speed can be set using the **+** and **-** buttons.

Set brightness
Depending on the configuration of the "Enable RGB Filter" setting in the DMX Configurator, the brightness can be set globally for all channels or individually for the colors red, green and blue.

After pressing ***R***, ***G*** or ***B***, the brightness can be set using **+** and **-**. If "Enable RGB Filter" is active, the setting is made separately for the colors, otherwise the brightness is set globally for all channels.

Specify IR Functions

The IR functions of any IR remote control with NEC protocol can be assigned in the configuration file.

To find out which IR command a button on an IR remote control is using, `IR:LOG=1;` must be entered in the configuration file.
In this case, each time an IR command is received, it is written to the text file ir.txt.
Then, one or more functions can be assigned to each IR command by using the parameter `IR:0xzzzzzz=` (multiple entries of the parameter are possible).

The following parameters are available for configuration:

Parameter	**Value**	**Description**
`IR:CODE=`	`NEC`	Sets the IR-Protocol Default: NEC

Parameter	**Value**	**Description**
`IR:LOG=`	`1`	Activates the saving of IR commands on the SD card

Parameter	**Value**	**Description**

`IR:0xzzzzzz=`	`PRG_UP`
	`PRG_DOWN`
	`ON`
	`OFF`
	`ON_OFF`
	`SPD_UP`
	`SPD_DOWN`
	`DIM_UP`
	`DIM_DOWN`
	`SET_FREEZE`
	`CLR_FREEZE`
	`TOGGLE_FREEZE`
	`TRIGGER`
	`SPDxxx`
	`DIMxxx`
	`PRGxxx`
	`CUExxx`
	`SELECT_PRG`
	`SELECT_SPD`
	`SELECT_ILM`
	`SELECT_R`
	`SELECT_G`
	`SELECT_B`
	`SELECT_W`
	`UP`
	`DOWN`
		Specifies which function is to be executed when IR command 0xzzzzzz is to be executed

Sample Configuration

A sample configuration for SD-Player 8 is available for download.
This contains various programs and shows the structure of the configuration file:

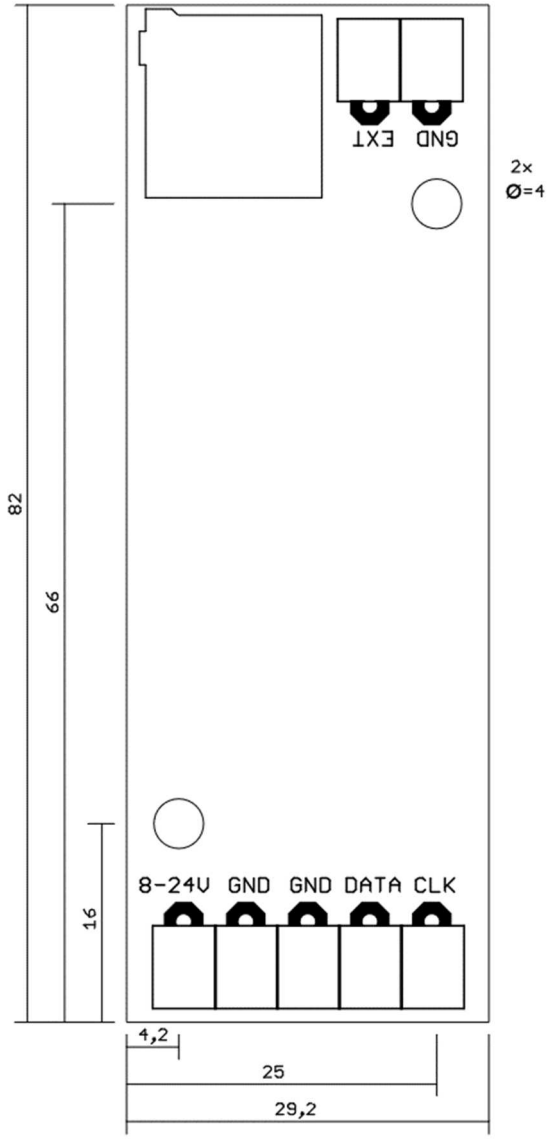
```
// Configuration file for SD-Player 8

// LED configuration
OutputType = SK6812;
GroupSize=1;
ColorSequence=RGB;
PixelCount=300;

// Power ON configuration
// Start PRG001 on power on with 100% speed and 50% brightness
AutoStart=PRG001,100%,50%;

// Button configuration
Button:Short=PRG_UP;
Button:Long=DIM_UP_DOWN;
```

Dimension



All details in mm

Factory Reset

To reset the **SD-Player 8** into the delivery state, please proceed as follows:

- Turn off the SD-Player 8 (Turn off the power supply)
- Remove SD card
- Press and hold the button
- Turn on the SD-Player 8 (Turn on power supply)
- Now, the LED flashes red / green quickly alternately
- Meanwhile, release the button
- Now, the Factory Reset is running
- As confirmation the LED flashes green 3x

Firmware-Update

The **SD-Player 8** has an Update-Function, allowing to transfer further Firmware-Versions.

Please proceed as follows:

- Copy the firmware file (.bin) to SD card
- Turn off the SD-Player 8 (Turn off power supply)
- Insert the SD card into the device
- Press and hold the button
- Switch on SD-Player 8 (Turn on power supply)
- Now, the LED flashes blue 10x
- Release the button in the meantime
- After completed update, the LED lights up green for ca. 1 second
- Then, the SD-Player 8 starts with the new firmware
- The firmware file (.bin) can now be deleted from the SD card

Accessory

Top hat rail housing 350

Top hat rail housing 350flat

Wall bracket for top-hat rail enclosure

Power supply 12V

IR Remote Control

Micro SD Card

Revision History

Firmware V1.00
- First Release

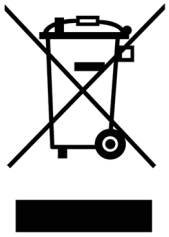
Firmware V1.01
- Add support for TWI Analog Extension

Firmware V1.02
- Correct DMX-Output Polarity

CE-Conformity

This assembly (board) is controlled by a microprocessor and uses high frequency. In order to maintain the properties of the module with regard to CE conformity, installation into a closed metal housing in accordance with the EMC directive 2014/30/EU is necessary.

Disposal



Electronical and electronic products must not be disposed in domestic waste. Dispose the product at the end of its service life in accordance with applicable legal regulations. Information on this can be obtained from your local waste disposal company.

Warning

This device is no toy. Keep out of the reach of children. Parents are liable for consequential damages caused by nonobservance for their children.

Risk-Notes

You purchased a technical product. Conformable to the best available technology the following risks should not excluded:

Failure risk:
The device can drop out partially or completely at any time without warning. To reduce the probability of a failure a redundant system structure is necessary.

Initiation risk:
For the installation of the board, the board must be connected and adjusted to foreign components according to the device paperwork. This work can only be done by qualified personnel, which read the full device paperwork and understand it.

Operating risk:
The Change or the operation under special conditions of the installed systems/components could as well as hidden defects cause to breakdown within the running time.

Misusage risk:
Any nonstandard use could cause incalculable risks and is not allowed.

Warning:
It is not allowed to use the device in an operation, where the safety of persons depend on this device.

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