LT512S

USB to DMX interface



Datasheet &

Quickstart Guide

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Introduction

Our professional package for entry-level budgets and users seeking an easy-to-operate DMX control system.

Newly designed aluminium housing with beautiful finish and updated electronics that work with all the latest 2022 Chromateq software (as well as older versions of LED Player and Pro DMX).

Capable of 3 trigger options and equipped with DC 5V input this USB to DMX controller includes USB 5V power supply and an optional infrared remote control in the package. It is the perfect hardware for easy integration projects.

Objectives

The purpose of this technical manual is to develop the options managed by the interface in standalone mode, for software options, please refer to the software manuals

Main features

Hardware technical specifications

Input	USB 2.0 via USB-C
Number of DMX Outputs	Up to 128 or 512 on 3 pin XLR (XLR5 optional)
DMX Speed	1 to 45 Hz, MaB, Bk
Stand Alone Mode	Yes, 128 or 512 channels, fine DMX channels (16 bits)
Internal Memory	Yes (200 Kb)
Memory Capacity	200 to 2000 memory steps
Infra-red Receiver	Yes, (IR remote control for triggers available in option)
Infra-red Options	Scene selection, play, pause, speed, dimmer, next, black out
Dry Contact Triggers	Yes (3 smart contacts port with 7 actions max)
Power Supply Input	5V, 0,1A
High voltage Protection	Yes
Housing	Strong Aluminium
Infrared remote	optional, need IR Kit
USB Mode	Yes
Display of signal states	USB LED
Power	0,5 W
CPU's technology	32 bits
Dimensions	H : 55mm(2.16in) / W : 50mm(1.96in) / D : 37,5mm (1.47in)
Weight	0.085 Kgs
Package total weight	0.15 Kgs
Colour	Black

IP rating	IP40
Place of Use	Indoor
Storage	Keep in dry place
Compatibility	8 and 16 bits DMX 512 fixtures
Operating Temperature	-25 to +70 C°
Certifications	CE, RoHS, Fcc
International Warranty	Yes, 1 year

Software options

PLAYER , PRO, PRO2	128 or 512 channels Live and Stand Alone
Studio DMX 3D viewer	Yes, real time
Art-Net Output from PC	No
System Compatibility	Windows, MAC Os X (10.6 and higher) and Linux (64 Bits)
Free Software Updates	Yes

Front panel



XLR Connector 3 pins 1: Ground 2: Data -

3: Data +

Infrared Receiver LED, (Remote unit is optional)

Rear panel



USB-C Connector (5V DC input)

Green USB Signal LED

Terminal Block Connector with screws

- 1 to 3: Trigger A, B, C
- 4: Power output for triggers A, B, C, 5V DC
- 5: Power Input 5V DC; 0,1A or VCC (V+)
- 6: Ground (V-)

USB Signal LED operating states

OFF	Interface not powered (check the USB cable or the power supply)
ON	Interface powered, No scene is playing
Fast Blinking	USB communication running with the software
Slow Blinking	Stand Alone mode and playing a scene
Flashing very fast	In bootloader mode, waiting to load a new firmware

USB drivers installation

Install USB drivers to communicate with the device and change settings. Installation of USB drivers is required only for Windows at the end of installation. Drivers for Mac and Linux systems are installed automatically.

USB drivers verification :

In the Windows Device Manager. Check that the device icon is visible in "USB Bus Controllers".

Ö Contrôleurs de bus USB
Ö DMX512 Stand Alone Device

If drivers are not installed, the Windows Device Manager lists a device with a yellow warning.

Universal Serial Bus controllers

On Mac OS, simply check the USB device tree to view "DMX 512 Stand Alone Device". On Linux, use the "Isusb" command to view "DMX 512 Stand Alone Device" as a list.

After control software installation and USB drivers

- Connect the device with the USB cable.
- Start the DEVICETOOL or the software and select "Open USB Device" or "USB" to check the success of drivers installation.

All connected and detected devices are listed.

Multiple USB connections



Standalone mode settings



In standalone mode of the control software, **configure the device according to the** available options then select and configure the triggers of scenes to be written in memory.

Device configuration

IN/OUT tab

Select a DMX input/Output configuration of the interface from the drop-down menu

💮 In / Out Config	Clock 8	🗘 Options 🛛 🗖 Master / Slave 🧹 – Commands 💭 Zones	
	In / Out Config :	A Out 🔹 Merge Dmx In / Dmx Out 🥐	
		A Out	
	DMX A :	AB Out	
		ABC Out	
	DMX B :	ABCD Out	
		AB Out / D In	
	DMX C :	ABC Out / D In	
	DMX D :	Channels:	
	ArtNet / sACN :	U1 • <===> U2 •	

Available configurations will be displayed depending on the connected device depending on whether it has 1.2 or 4 DMX lines.

- **A OUT** Assigns 1 output universe on the DMX line(s), for devices that have more than 1 DMX lines duplicate the universe on each.
- **AB OUT** Assigns 1 different output universe on 2 DMX lines, for devices that have 4 DMX lines duplicates the first 2 lines on the next 2 lines.
- A OUT/B or D IN Assigns 1 output universe on the first line(s) and uses the last DMX line as DMX input.
- **ABC OUT** Assigns 1 different universe output on the first 3 DMX lines.
- **ABCD OUT** Assigns 1 different universe output on 4 DMX lines.
- **AB OUT / D IN -** Assigns 1 different output universe on the first 2 lines and uses the last DMX line as DMX input.
- **ABC OUT / D IN -** Assigns 1 different output universe on the first 3 lines and uses the last DMX line as DMX input.

"Merge DMX In / DMX Out" option

Available with interfaces with more than 2 or 4 DMX lines.

Enable the option to re-inject line configured as an input (IN) to the line(s) configured in DMX outputs and thus merge them.

The merged DMX levels are compared and the highest is retained. We are talking about HTP (Highest Takes Priority).

Maintain manual control on some circuits with an external DMX console.

Create a multi-zone system by merging several cascading interfaces to obtain only one common DMX line.

💮 In / Out Config	Clock §	ි Options	Master	/ Slave	Commands	Zones	
	In / Out Config :	ABCD Out			✓ Merge Dm	x In / Dmx Out	?
	DMX A :	U1 -	Channels :	512			
	DMX B :		Channels :	512			
	DINK DI			100			
	DMX C :	U2 ¥	Channels :	192	<u> </u>		
	DMX D :	U3 🔻	Channels :	64			
	ArtNet / sACN :	U1 -	<===>	U2			

Assign any universe of the software to any DMX line assigned to output, choosing line by line (U1, U2...).

Optimize the size of shows saved in memory by reducing the number of circuits per universe depending on the channels used.

Example: If 150 channels are used in the show, select only the nearest higher value, here 192.

Art-Net/sACN universe range:

Define the starting universe and the finish universe to write in memory on an external SD card for an Art-Net/sACN show.

Cf: "Saving Art-Net or sACN to an external SD card"

Options tab

🕑 In / Out Config 🕒 Clock	හි Options 🗖 Ma	aster / Slave C	ommands 🗍 Zones
Turn off LED o	display after 4s	?	Select Dimmer channels
Trigger delay (Bo	unce): 500 ms	?	Scroll time : +1 🔹 ?
(?	Default start scene	Dimmer (DMX In)	Direct DMX levels (0-255)
Zone A :	Scène 1 🛛 🔻		
Zone B :			
Zone C :			
Zone D :			
Zone E :			

For devices with an LED display, turn it off after 4 seconds of inactivity by checking the option.

Select a default scene to play automatically after the interface is turned on (with USB or external power supply). For multi-zones devices it is possible to set a default scene for each area.

Note: The selected default start scene loses its priority if another scene uses the "Restore if power off" option.

Cf: "Advanced trigger options"

Configure the "Select Dimmer channels" option to select separately the Dimmer or RGBW light intensity channels that will be controlled directly by Dimmer mode, dry contacts or via the infrared remote control.

Sélect	Sélectionner les circuits Dimmer																																		
					6		8								16				20		22	23	24	25	26		28	29	30		32	\odot	Unive	ers	
33	34	35	36		38	39	40		42	43	44	45	48		48	49	50		52	53	54	55	56		58	59	60		62	63	84				
65	66		68	69											80		82		84	85	88		88	89	90		92	93	94	95	96	1	2	3	4
	98	99	100		102	103	104	105	106		108	109					114		116		118		120		122	123	124	125	126		128	5	6	7	8
129	130		132	133	134	135	136		138	139	140	141	142	143	144	145	146	147	148	149	150		152	153	154	155	156	157	158	159	160	H			40
161	162	163	164	165	166	167	168	169	170				174	175	176		178	179	180	181	182	183	184	185	186	187	188	189	190		192	9	10	11	12
193	194	195	196		198	199	200	201	202	203	204	205	206	207	208	209	210		212		214	215	216	217	218	219	220	221	222	223	224	13	14	15	16
225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	17	18	10	20
257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276		278	279	280	281	282	283	284	285	286	287	288	<u> </u>		13	20
289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310		312	313	314	315	316	317	318	319	320	21	22	23	24
321	322	323	324	325	326	327	328	329	330		332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	25	26	27	28
353	354	355	356	357	358	359	360	361	362	363	364	365	388	367	368	369	370	371	372	373	374	375	376		378	379	380	381	382	383	384	Ē		_	
385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410		412	413	414	415	416	29	30	31	32
	418	419	420	421	422	423	424	425	428	427	428	429	430	431	432	433	434	435	438	437	438	439	440	441	442	443	444	445	446	447	448				
449	450	451	452	453	454	455	456	457	458	459	480	461	462	463	464	465	486	467	468	469	470	471	472	473	474	475	476		478	479	480				
481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	498	497	498	499	500		502	503	504	505	506	507	508	509							
																	_																		
						Se	elect I	Dimm	er chi	annel	S														Sele	ct RG	BW c	hann	els						
																																	•	/	×

Commands tab

Assign external contacts, among those available for your device, to trigger some standalone mode commands: Dimmer +, Dimmer -, Blackout, Speed +, Speed -, Pause, Scene +, Scene - and Zone.

Note: Be careful not to use the same command trigger as the one used for a scene and vice versa.Cf: "Choice of triggers by external contacts"

The last assigned contact will take priority over the other.

Use 2 types of Short/Hold contact and thus assign an identical contact to 2 different commands. (here as an example with the Dimmer +; Dimmer -)

💮 In / Out	Config	٥	lock 🔯	Options		Master / Slave	Comma	ands 📃 Z	ones	
									Short	Hold
Stop :			Pause :		•	Blackout :		Dimmer +:	04-C/T3 🔻	
Zone A :	01 - A / T	1 -	Zone C :	03	•	Zone E :		Dimmer - :		04-C/T3 🔻
Zone B :	02 - B / T	2 🔻	Zone D :		•	Zone G :		Speed + :		
Scene + :	06		Scene - :	07	•			Speed - :		
Zone + :		•	Zone - :	01-A/T1 02-B/T2				Color +:		•
				03 04 - C / T3 05				Color - :		-
				06 07				CCT +:		-
				08 - D / T4 09	-			CCT - :	-	-

Scenes selection and configuration

×	✓ ● »)					Device	Triggers	Time triggers	Schedule activation				
	Name	Duration	Properties	Triggers	Zone								
1 🗸	Scène 1	00m 04s 000	00:00:000 #00		Α								
2 ✓	Scène 2	00m 09s 960	00:00:000 #00		А								
3 🗸	Scène 3	00m 11s 000	00:00:000 #00		A								
4 √	Scène 4	00m 02s 000	00:00:000 #00		A				RS232	(?)	Restore if power off	(?)	
5 🗸	Scène 5	00m 02s 000	00:00:000 #00		A					\sim		\sim	
6 ✓	Scène 6	00m 02s 000	00:00:000 #00		A							\bigcirc	
7 ✓	Scène 7	00m 02s 000	00:00:000 #00		A		<i>))</i>			~	Play in priority	(?)	
8 🗸	Scène 8	00m 03s 000	00:00:000 #00		A								
9 🗸	Scène 2	00m 03s 000	00:00:000 # oo		В		_/_			- 0			
10 🗸	Scène 3	00m 02s 400	00:00:000 #00		C					$ \cdot$			
11 🗸	Scène 4	00m 09s 960	00:00:000 #00		D		\sim						
							••						
							Ŭ						
													-th
										1%			

Check to select the scenes to write in memory and assign triggers from those available by your device.

Choice of triggers

In the "Triggers" tab, select and assign different types of triggers.

Device	Triggers	Time triggers	Schedule activation			
	0		RS232	?	Restore if power off	?
))				Play in priority	?
				~		
	_/ _			(?)		
	\bigcirc					
	\mathbf{O}					

Infrared Trigger

For devices that do not have this trigger option an Infrared kit is available containing an IR receiver and a remote control.

Cf: "use of the remote control by infrared"

Select a scene from the list and assign it a remote control button from the 15 available buttons.





Automatically assign buttons to all scenes in the list by clicking the Infrared icon on the scene list toolbar.



External contacts Trigger:

Depending on the interface, several external contacts are available: Trig A, Trig B, Trig C ..., and the Use a multiplexing interface to extend the number of contacts when possible.(from 3 to 7; from 4 to 15; from 5 to 31 ...) Contact reaction time, 5ms (0.005s)



Example of multiplexing system with 4 external contacts extended to 15.



Select a scene from the list and assign it a contact from those available through the interface.

Option of triggers



Select a trigger option from the drop-down menu next to it.

On: Activating the contact makes the scene play (the only trigger action is to start the scene). **On/Off:** Activating the contact starts the scene, subsequent activation stops the scene.Each trigger action will reverse the stage state (start/stop).

Auto Release: The scene is played only while the contact is enabled. When the contact is released, the scene stops.

Restart: If the scene is playing, enabling the contact restarts the scene from its beginning. If the scene is not being played, it will start. External contact reaction time: 8 ms (0.008 s) / time between 2 contacts: 500 ms (0.5 s)

If something plays: Play the selected scene if a scene is already played.

If nothing plays: Play the selected scene if nothing plays.

These two interdependent options allow the same contact to be assigned to two different scenes.

Note: Be careful not to use the same scene trigger as the one used for a command and vice versa.Cf: *"Order tab"*

The last assigned contact will take precedence over the other.

Automatically assign external contacts to all scenes in the list by clicking the external contact icon on the scene list toolbar.



Advanced trigger options.



Restore after power off

By checking this option in the "Triggers" tab, the selected scene takes priority on the boot scene (see "Options tab") when the power supply is restored.

If all scenes have the option checked, the last active scene is replayed.

Play in priority

By checking this option in the "Triggers" tab, the selected scene plays continuously until its end, without taking into account other triggers, except for time triggers and physical buttons on the device.

Save in memory option

Check scenes that need to be saved in memory.

×☑ ● カ)						
		Name	Duration	Properties	Triggers	Zone 📤
1	V	Scene 1	00m 14s 400	00:05:000 #00		A
2	\checkmark	Scene 3	00m 00s 480	00.03:000 📫 oo 📃		A
3	V	Scène 4	00m 05s 720	00:05:000 #1		A
4		Scene 5	00m 18s 000	00.07:000 #1		A
5		Scene 6	00m 05s 000	00.00:000		A
6	>	Scene 6_copy_1	00m 05s 000	00.00:000		A
7		Scene 6_copy_2	00m 07s 000	00.00:000 - 00		A.
8		Scene 6_copy_3	00m 07s 000	00:00:000	Real Property lines	A
9		Scene 6_copy_4	00m 07s 000	00.00:000		A
10		Scene 6_copy_5	00m 07s 000	00.00:000		A
11		Scene 6_copy_6	00m 07s 000	00.00-000		A.
12		Scene 6_copy_7	00m 07s 000	00.00:000		А
13		Scene 6_copy_8	00m 07s 000	00.00-000		A
14		Scene 6_copy_9	00m 07s 000	00.00:000		A
15		Scene 16	00m 03s 000	00:05:000 #3		A,
16		Scene 17	00m 08s 000	00.00:000 #2		A
17		Scene 18	00m 03s 200	00.00:000 440		A.
18		Scene 19	00m 13s 000	00.00:000 #2		A
19		Scene 20	00m 04s 000	00.00:000 #2		A
20		Score 21	00m 02c 500	00-00-000 thee		

Click on the "Write in Memory" button





Select the desired option in the Scenes Write window.

Basic backup

Write standalone configuration: Change only certain settings in the configuration of a show already written in memory. Reduces backup time.

Write to Memory: Default backup in the internal memory of the device.

Save to an internal and external micro SD card

For devices with a micro SD port.



Save scenes to a micro SD card (Class 10) installed in the device's SD card reader or in the computer drive. The card must be CLASS 10, formatted in FAT or FAT 32 with a maximum capacity of 256 GB. It is recommended to use the largest allocation unit size available when formatting.

Write to the SD card of the device: SD card installed in the interface drive

Write to an external SD card: SD card connected to the computer Note: Save to the root directory of the SD card.

Backing up Art-Net or sACN to an external SD card

For devices with a micro SD port and an Ethernet port.



Art-Net - Write to an external SD card: Save up to 8 universes only on micro SD to render an Art-Net or sACN show independently.

Set the universe range in the IN/OUT config tab.Cf:

Pre-commissioning verification:

Connecting the RJ45 cable before power on.

Connection to the local network.Cf: "Ether Ethernet connection and configuration"

Configuring the device in Art-net or sACN mode via the software or DeviceTool.

Note: Once in Art-Net (Ar) or sACN (AC) mode, the interface is no longer visible on the local network.

In Art-Net the interface will use Broadcast to play the show on the network.

In sACN the interface will use the Multicast to play the show on the network.

Stand-alone use

Switch to stand-alone mode

The interface switches to standalone mode automatically after 5 seconds after power on and if no software connection is made.

External and USB power supply

The external power supply is only used for "Autonomous" mode.But it is possible to connect a USB cable and power supply at the same time, even if this configuration is not recommended.If a USB cable is connected to the interface when running in standalone mode, the device will detect a possible connection to a computer but this will not affect the scenes that play.

How to use IR Remote

Infrared Remote triggers work in Stand Alone and in Live mode when "Get Stand Alone Triggers" is

checked in software option window, at the bottom of "Device" section.

Get Stand Alone triggers

Previous Remote Control Unit (Before 2022)

Functioning for Interfaces without Mode and older interfaces.



- 1. Scene trigger buttons (1 to 10) assigned via the software.
- 2. Scene selector, next or previous.
- 3. Speed value, increase & decrease
- 4. Dimmer value, increase & decrease
- 5. **Blackout:** Stops the current scene and plays the scene 00. All DMX levels are set to zero.
- 6. Pause: Freezes the current scene in its state

Functioning for Interfaces with Modes



- 1. Scene trigger buttons (1 to 10) assigned via the software
- 2. **Increase or decrease** the value of the selected mode: Scene +/-, Dimmer +/-, Speed +/-, Color +/-.
- 3. Color mode
- 4. Scene mode
- 5. Dimmer mode
- 6. Speed mode
- 7. **Blackout:** Stops the current scene and plays the scene 00. All DMX levels are set to zero.
- 8. Pause: Freezes the current scene in its state.

New Remote Control Unit (2022)

Functioning for Interfaces with Modes



- Scene trigger buttons (1 to 15) assigned via the software Trigger 1 to 15 with 1 Zone. Trigger 1 to 9 with several Zone.
- 2. **5 Control Zones** available: A, B, C, D, E and Global Zone: [] to trigger each Zone in the same time.
- 3. **Increase or decrease** the value of the selected mode: Scene +/-, Dimmer +/-, Speed +/-, Color +/-.
- 4. Release Color mode
- 5. Color mode
- 6. Scene mode
- 7. Dimmer mode
- 8. Speed mode
- 9. **Blackout:** Stops the current scene and plays the scene 00. All DMX levels are set to zero.
- 10. Pause: Freezes the current scene in its state.

Functions descriptions

Scene +/-: Each push selects the next or previous scene of the current Zone. Scene are play immediately.

Master Dimmer: Increases or decreases the RGB, CMY and dimmer channels of the current zone. The CMY, RGB, Dimmer channels are defined in the Profile of the fixture and the stand-alone mode.

Scene Speed: Increases or decreases the speed of the current scene in the current zone. A different speed can be chosen separately for each scene.

Zones: Choose a Zone (A,B,C,D,E or Global []). Then select a scene or mode to trig in the selected zone.

Modes: Select a Mode from Speed, Dimmer, Color or Scenes, then use +/- to change values.



IR receiver box



To use the optional IR remote control, an external circuit with an IR receiver must be connected via an RJ45 port or via the stand-alone interface terminal block.

IR PCB pinout

-With RJ45 cable, use pins: #8 = Ground; #4 = IR data; #7 = 5V. -With connectors, use pins: O = IR data; V = 5V; G = Ground.

Maximum distance from cable to receiver is approx. 20 m.

Light sensor

The light sensor integrated in the IR box circuit **only works with hourly triggers**. The external card must be connected via the RJ45 port or via the terminal block. Light sensitivity must be set in the software.

See "Time-controlled scenes".

Housing dimensions in mm.

Front



Back



Tops





The device is not detected by the DeviceTool or	Unplug to restart the device.		
USB software.	Change the USB cable		
	Unplug to restart the device.		
The device is not detected by the DeviceTool or	Change the Ethernet cable		
Ethernet software.	Check the selection of the Ethernet network		
	before opening.		
	Check the mode of communication with LED		
	signals and reconfigure the device via USB if		
	necessary		
	Verify that the IP addresses and subnet mask		
	are configured correctly.		
	Update the firmware of the device via the		
The device is not detected on the network	software or DeviceTool		
	Update the software with the latest version and		
	try again		
	Open and allow communication ports used by		
	the device. Some local networks may require		
	manual opening of the following UDP Ports:		
	8011 + 8012 for communication between the		
	device and software.		
	Check the firmware and software version.		
	Device with display		
	When working properly: The screen indicates		
	"ON" when connected to the computer, then it		
	displays "SA" and "00" (or a scene number).		
	When you start the software and the interface		
	is properly detected, you should see "PC".		
	Device without display		
The device is blocked in standalone mode and	Check the mode of communication with LED		
it cannot establish communication with the	signals.		
software.	During the 5 seconds before the device		
	switches to standalone mode:		
	1) Create a small show with a scene (in demo		
	mode) and close the software after saving the		
	snow.(optional)		
	2) Onplug the interface.		
	s) start the sortware and wait for the sortware		
	to be on the 1st page of the wizard with the		
	seiected USB device.		

	4) Plug in the interface and start the software		
	IMMEDIATELY .Simply confirm all the steps of		
	the wizard.You should see the interface well		
	detected and listed in the wizard.		
	5) Open the software and quickly write the		
	small show in memory.		
	Writing a new scene cleanses memory and		
	does not allow the infinite loop to reproduce.		
	Before commissioning, plug the RJ45 cable		
	before powering.		
	Replugging the power supply		
	Insert the SD card again (Reset)		
The device does not restore the Art-Net or	Device with display		
ACN show	Select ArtNet (Ar) mode again, sACN (AC) in		
SACIN SHOW.	the advanced F3 menus of the interface (mode		
	button).		
	Device without display		
	Select ArtNet, sACN mode again via the		
	software or DeviceTool.		

If you experience unlisted issues, contact your seller or manufacturer directly to indicate your problem and receive a solution.

Product design and specifications are subject to change without prior notice.

Older devices (sold before 2020) are not compatible with PRO DMX version 2