SLIM STANDALONE INTERFACES
USB-DMX 512 & 1024 CHANNELS
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Datasheet – SLIM Standalone Interfaces USB-DMX 512 and 1024 channels
## HARDWARE TECHNICAL SPECIFICATIONS

**Input**
USB 2.0 via Mini USB

**Number of DMX Outputs (512/1024)**
Up to 512 / 1024 on 5 Screws terminal Pins

**DMX Modes (512)**
2x512 (Splitter, PC + Stand Alone) or 512 in/out (PC mode)

**DMX Modes (1024)**
2x512 ,1024 or 512 in/out (PC + Stand Alone)

**DMX Input (512)**
Yes (PC only, DMX record, DMX trigger)

**DMX Input (1024)**
Yes (PC and Stand Alone mode, DMX record, DMX trigger)

**Stand Alone Mode (512)**
Yes, 2x512 (splitter), fine DMX channels ( 16 bits)

**Stand Alone Mode (1024)**
Yes, 2x512 (splitter), 1024, 512 in/out, fine DMX channels ( 16 bits)

**Multiple Zone (512)**
No, 1 Zone, can play 1 scene per time

**Multiple Zone (1024)**
Yes, 5 Zones, can play 5 different scenes per time

**Stand Alone DMX Merging**
Yes, merge several interfaces to play different Zones together

**Internal Memory**
Yes (4 Mb)

**External Memory**
Yes, SD card slot included

**Memory Capacity**
20000 steps with 16 ch., 6000 steps with 512 ch., 3000 steps with 1024 ch.

**Real Time Clock - RTC**
Yes, Time and calendar triggers (minutes, hours, week, days, month)

**Trigger buttons**
Yes, 8 buttons with Blue status LED

**Option Buttons**
Yes, 4 buttons (Mode, Valid, Next, Previous)

**Mode Buttons**
Yes, Scene and Page selections, Speed, General Dimmer, custom colors

**Dry Contact Triggers**
Yes (5 contacts port on 3.3V or 5V)

**Infra-red Receiver**
Yes, external IR PCB and IR remote control available in option

**Infra-red Options**
Yes, external PCB with Light sensor available in option

**Light intensity Triggers**
Yes, scene selection, scene speed, general dimmer and next scene

**Master/Slave**
Yes, synchronize and connect up to 32 interfaces together in stand alone

**CPU’s technology**
32 bits

**Dimensions**
H : 20mm(0.79in) / W : 128mm(5.04in) / D : 109mm (4.29in)

**Weight**
0.2 Kgs

**Package total weight**
0.41 Kgs

**Power Input**
5V to 24V DC, 0.5A max on DC connectors, 5V, 0.5A via USB

**Power / Consummation**
0.3 to 0.5W

**High Voltage Protection**
Yes

**Housing**
Black or White with 4 mounting holes, ABS Plastic

**IP rating**
IP20

**Place of Use**
Indoor

**Storage**
Keep in dry place

**Compatibility**
8 and 16 bits DMX fixtures

**Operating Temperature**
-25 to +70 C°

**Certifications**
CE, RoHS, Fcc

**International Warranty**
Yes, 3 years

### Software features:

**LED Player**
512/1024 channels DMX + Stand Alone mode, Live Board mode

**Studio DMX 3D viewer**
Mode Full

**Pro DMX**
Yes, 1024 channels, full mode, 30 minute loop of Audio and VideoTimeline

**Art-Net output from PC**
Yes, 1 or 2 Universes (DMX + Artnet)

**WI-Light 2016 App**
Yes, can control LED Player and Pro DMX with a WIFI connection

**System Compatibility**
Windows, MAC Os X (10.6 and higher) and Linux (64 Bits)

**Free software updates**
Yes

### Package Content:
1 USB cable + 1 USB to DMX Interface
**FRONT FACE OF THE 512 / 1024 CHANNELS INTERFACES**

**Scene triggering buttons:**
1: Scene 1 On/Off
2: Scene 2 On/Off
3: Scene 3 On/Off
4: Scene 4 On/Off
5: Scene 5 On/Off
6: Scene 6 On/Off
7: Scene 7 On/Off
8: Scene 8 On/Off

**Command buttons:**
- : Mode selection (Trigger, Page, Color, Speed, Dimmer, Zone)
✓ : Valid Choice / Color Off
← : Decrease values
→ : Increase values

**Display:**
7-segments LED display

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**BOTTOM FACE OF THE 512 / 1024 CHANNELS INTERFACES**

**Mini USB connector and USB power connector**
5 DC Volts only; 0,15-1 A.

**Micro SD Port**

Datasheet – SLIM Standalone Interfaces USB-DMX 512 and 1024 channels
External connectors:
1: External input power 9-36V
2: GND
3: External trigger A
4: External trigger B
5: External trigger C
6: External trigger D
7: External trigger E
8: Master/Slave Data
9: Master/Slave Clock
10: 5V. DC External trigger voltage
11: GND
12: Infra Red signal
13: Light Sensor
14: DMX2 - data
15: DMX2 + data
16: DMX Ground
17: DMX1 - data
18: DMX1 + data

External wall mounting:
19: America standards
20: Europe + Asia standards
INTERFACE BUTTONS AND DISPLAY FEATURES

Mode selection button

Press the Button 🌺 to select one of the available modes: Scene triggers (SA), Page (PA), Color (Co), Speed (SP), Dimmer mode (dl) or Zone (Zo).

Valid Button

Press the button ✅ to validate your choice or turn off the current color selection.

Next/Previous, +/- Scene buttons

Scene trigger mode: Select the scene number with + or – buttons, then press Valid to confirm to play the selected scene from 01 to 255. The scene number will flash several times to confirm your selection.

With scene 00 nothing is playing

Page Mode: Select the scene page with + or – buttons from P0 to P9, then choose the scene available in the current page with the 8 buttons.

Color mode: From the 8 buttons, select one of the 8 customized colors or choose the color of the color wheel from 00 to 99 with + or – buttons. Press Valid button to turn off the current color or recall the last color from the color wheel.

Speed Mode: Increase or decrease the Speed of the current scene with + or – buttons. Values are from -9 to +9.

Dimmer Mode: Increase or decrease the general intensity (dimmer + RGB) of scenes and colors with + or – buttons. Values are from -9 to +9.

Zone Mode: Select the zone with + or – buttons (Zone A to E and global Zone), then choose the scene available in the current zone with the 8 buttons.

Blue LED buttons

Push one of the 8 trigger buttons to play a scene in memory from the Scene trigger mode, Page mode and zone Mode.

Push again the buttons with blue LED to stop the current scene.

In color mode push a button to trigger a personalized color. Push again to stop it.
**LED display operations and meaning:**

The LED Display shows the number of the current scene, page, color, selected modes, speed/dimmer values, selected zone and the update firmware mode.

There are different displays according to the selected mode:

**PC:** The interface is connected to the computer and communicating with the software. The interface is controlled by software.

**SA:** Scene trigger mode is running. By default then no scene is playing, all DMX channels are set to 0. In Scene trigger mode, the LED display gives the current scene number from 01 to 255. The 00 value is Black-out and the DMX interface send nulls (0x00) on all output.

**PA:** Page mode, it allows to switch between 10 pages of 8 buttons to triggers scenes directly. In page mode, the display indicates the page number P0 to P9.

**Co:** Color mode, to play some customized colors on RGBW channels. In color mode, the display indicates the color number from C1 to C8.

**SP:** Speed mode, increase or decrease the current scene speed. In speed mode, the display indicates the speed of the current scene, values from -9 to 9.

**di:** Dimmer mode, increase or decrease the general intensity and dimmer of scene and customized colors. In dimmer mode, the display indicates the general intensity, values are from -9 to 9.

**Pr:** Programming memory Mode, Pr is display when the interface is writing a show in memory.

**Zo:** Zone mode is selected. After programmed the interface memory the zone A is selected by default. In zone mode, the LED display gives the current Zone: General, A, B, C, D, E.

- Zone A to D display: ![Zone A to D](image)

- General Zone display: ![General Zone](image)

The LED Display switch between the current zone and the running scene number every 3 seconds.

**bL:** Update firmware mode, when a new firmware is writing in memory. In update firmware mode, the display will flash during the firmware update. Do not disconnect the interface during this mode.
ZONE MODE (1024 CHANNEL INTERFACES ONLY)

1024 channels interfaces allows to play 5 zones at the same time in stand alone mode.

In the edition mode:

Click on + to add zones
The zone window can be display by clicking on the « Zone » button

In the zone window, move the central bar to define the zone parameters, it is also possible to choose manually the zone range in the fields.

Make sure your DMX Patch and fixtures addresses are corresponding to your Zones.
When zones are defined, you need to create scenes in the corresponding tab:

In Stand alone Mode:

- The Zone option is available in Stand alone mode (Manual selection of zones).
- The « Zones » tab allows to display and configure each zone (double click on a zone to edit).
STAND ALONE INTERFACE TRIGGERS

The Stand Alone mode of the software enable to configure and personalize all the triggers. The information will be directly saved in the DMX interface memory with the memory writing function.

SWITCH TO STAND ALONE MODE

When the device isn’t connected to the software or has just been powered, it enters in Stand Alone mode after five (5) seconds.

INTERFACE MODE SETTINGS

![Device settings windows]
Choose a RGBW color to be played in stand alone color mode (8 colors max.)

Organizes menus available in stand-alone mode

Page selection Buttons

Associate scenes to buttons to be played in stand alone scene mode (80 scenes max.)
It is possible to personalize the mode that you want to use in Stand Alone. From the mode icons, you can right click to Add or Remove a mode. Drag and drop a mode in the list to order them accordingly to your need.

You can also choose a single menu to simplify the use of the interface.
Standalone mode offers 8 buttons that represents the interface LED buttons. From the scene list of the standalone mode, you need to drag and drop a scene on any button to assign a button number.

Drag and Drop a scene to a button

It's possible to replace a scene by another one or to remove it by pulling it out of the list.

You can also setup a color to each button and play this color in the color mode, click on color square to set your own color.

Click and set the desired color
CONTACT WIRING AND CONNECTIONS WITH RJ45 PINS

The 5 externals contacts are located on screw terminal. You can use the 5 dry contacts to trigger 5 scenes via external relay. To have more triggers you must use a multiplexed system to get a maximum of 31 contacts as following:

Multiplex the trigger could give 31 triggers combinations.

External Contact Closures can be done only when Pin 3, 4, 5, 6, 7 are connected to Pin 10 (5 V. DC). (up to 31 triggers)

Pin Table:
Trigger 01 = Pin 3
Trigger 02 = Pin 4
Trigger 03 = Pin 3 + 4
Trigger 04 = Pin 5
Trigger 05 = Pin 3 + 5
Trigger 06 = Pin 4 + 5
Trigger 07 = Pin 3 + 4 + 5
Trigger 08 = Pin 6
Etc...
By selecting a scene in the list, it’s possible to choose the external contact number (from 01 to 127) to trigger the scene.

By default, the interface gives 7 external contacts (01, 02, 04, 08, 16, 32, 64). To obtain 127 external contacts, you have to use a de-multiplexing interface in order to go use the other possible combinations.

Several trigger options are available for externals contacts triggers:

**On**: Activate the contact only allow you to play the scene.

**On/Off**: Activate the contact allow you to play and stop a scene. Each trigger action will invert the state of the scene (start/stop).

**Auto Release**: The scene plays while the contact is activated. Keep the contact activated to play the scene, when the contact is released the scene stop.

**Restart**: Activate the contact will restart the scene from its beginning automatically. If the scene is off already, then it will play.

### TRIGGERING COMMANDS

External contacts can also trigger commands in stand alone mode. >From the Triggers tab you can select a contact for each action: Dimmer +, Dimmer -, Blackout, Speed +, Speed -, Pause, Scene +, Scene - and Area.

It is not possible to use the same trigger for scene and command, in this case, the scene contact has the priority or the scene will loose its contact trigger information after choose the contact from the Trigger command tab.
Button 1 to 10 must be assigned to a scene via the software.
Each button can trigger a different scene. With the remote control, a scene cannot be stop directly with the assigned button. To stop it you must press the Stop/Black Out button or trigger another scene.

Pause button to freeze the current scene to its actual state.

Stop/Black Out button to stop the current scene and play the empty scene number 00. All DMX channels are set down to 00 levels.

+/- for scene trigger. Select the next or previous scene automatically. You don’t need to hold the button to validate and play a scene. The next or previous scene will play directly after selected.

+/- for Scene speed. Increase or decrease the speed of the current scene. A different speed can be chosen separately for each scene.

+/- for General dimmer. Increase or decrease the RGB, CMY and dimmer channels of the fixtures. The CMY, RGB, Dimmer channels are defined in the Profile of the fixture.

To use the IR remote control, the external IR receiver must be connected to the screw terminal (Pins 10,11,12).

The cable distance is about 20 meters maximum.

IR PCB Pin assignment:
- With RJ45 cable use pins 8 = Ground; 4 = IR Data ; 7 = 5V DC.
- With T. Block use pins: 4 = IR Data; 7 = 5V DC; 8 = Ground.
In the software go to Stand Alone Mode and use the Triggers options to assign a remote button to a scene. Standalone mode offers up to 10 triggers with the Infrared remote.

By selecting a scene in the list, it’s possible to choose the remote button number (from 01 to 10) to trigger the scene.

**DMX IN TRIGGER CONNECTION**

- Standard DMX Controller board
- The DMX Output is connected to the interface input
- DMX-B Must be turned into Input in the software
- DMX Output, playing scenes in memory and triggered with the DMX Board via the DMX IN signal
DMX in trigger in stand Alone available only with 1024 interfaces.
In stand alone window set In / Out Config as DMX 1 Out/DMX 2 In and select the DMX Out universe

The Stand Alone mode offers up to 512 DMX IN channel triggers and up to 255 DMX trigger values per channel. By selecting a scene in the list, it's possible to choose the channel number and the DMX value to trigger the scene. The scene will play when the value of the DMX channel is reached or exceeded.
In software one DMX Output must be turned into an input in the Options windows. To access this window click on the software menu: Tools > Options then click to select the device section as following:

You can select an universe for output and input mode with 1024 and 512 interfaces.

Follow those steps to set a DMX-IN trigger on a scene or on a program:

**Step 1:** Go to the scenes list in the editor view.

**Step 2:** Double click the “Key” cell of the scene to be triggered.

**Step 3:** Go to the DMX section of the Key window.
Two DMX-IN trigger options are available: DMX Level and DMX Scale, let's see what the differences are:

### Option DMX Level

- **Choose the input universe and channel**
- **Choose the trigger level**
  - With one if you go over it the scene starts and under it the scene stops.

### Option DMX Scale

- **Choose the input universe and channel**
- **Choose the trigger range of levels**
  - With one if you go inside it the scene starts and outside it, the scene stops.

With the DMX Scale you can create many triggers presets on a same DMX-IN channel and so starts a suite of scenes on the DMX fader way.
TIME TRIGGERS WITH CLOCK AND CALENDAR

The Stand Alone mode has an internal clock and a calendar. It’s possible to assign a time trigger on every scene of the list. By selecting a scene on the list, it’s possible to choose the start and end dates and hours and days of the week. You can thus create a lot of scenarios.

CASE 1: Programming an unique trigger:

- **Start schedule:**

  ![Start Schedule Image]

  The scene is triggered a single time at the given date and time.

- **End schedule:**

  ![End Schedule Image]

  The scene is stopped at the given date and time.

CASE 2: Programming a repeating trigger:

- **Start schedule:**

  ![Start Schedule Image]

  Date from which one the scene will be playable according to the programmed triggers.

- **End schedule:**

  ![End Schedule Image]

  Date after which one triggers will be ignored. With no End date, triggers are permanent.
• **List of the months of the year**

![Check boxes for months]

The 12 check boxes represent the 12 months of the year (J) January to (D) December. The triggers will be performed on the activated months. Next, a daily hours range must be defined.

• **Start and Stop days**

![Input fields for start and stop days]

With a monthly repetition, you can choose the starting and stopping days for each chosen month. In this example, triggers can happen between the 1st and the 15th of each chosen month.

• **List of the days of the week**

![Check boxes for days of the week]

The 7 check boxes represent the 7 days in a week. The triggers will be performed on the activated days only. Next, a time range must be defined.

• **Start time**

![Input field for start time]

The starting time is the time when the scene will be triggered for each chosen day. Of course, chosen months, start and end schedule days are included.

• **Release time**

![Input field for release time]

The release time is the time when the scene will stop for each chosen day. Of course, chosen months, start and end schedule days are included. The release time is not mandatory; if it’s not defined, the scene will keep playing until another trigger event happens. (Like the triggering of another scene for example).

**NOTE:** For a daily repetition, if the starting time is later than the release time, then the triggering will stop the next day, even if the next day has not been selected.
SAVE AND RECOVER THE LAST SCENE AFTER THE POWER CUT OFF:

The interface can save the last scene played before the power cut off and recover it when the power is restored. For each scene you can select “Restore if power off”.

SCENE TRIGGER PRIORITIES:

When several scenes have the same time trigger (date + hour + minute), only the first scene in the list will be triggered. The rest will be ignored.
DMX MERGING IN STANDALONE

One DMX line must be turned into an input to capture the dmx signal provided by an external DMX board or by another DMX interface.

The interface will merge the incoming signal with its own output signal by comparing the DMX levels with a HTP filter (priority on the highest levels of the signals). Merging is a solution to keep manual control on channels, using a DMX Board for example. It’s also a way to create a multi-zones system by merging several interfaces on one final DMX line. In this last case, each interface can play a scene dedicated to the fixtures at the same time and on the same DMX line.

In the software’s standalone window, select: “DMX 1 OUT / DMX 2 IN” and validate the merge option.
CONFIGURATION OF THE MASTER/SLAVE INTERFACES

When multiple interfaces are connected with USB, the standalone mode allows to set them as Master/Slave. This mode allows to synchronise many interfaces and mutualize their standalone spaces combining the universes. (up to 32 standalone universes)

Here are two example or wiring with 3 interfaces connected in Master/Slave:

- GND
- M/S DATA
- M/S CLOCK
A single interface can be define as master, others are automatically set to slaves. Triggers operated on the master interface are passed on slaves. However slaves are not synchronized on play time and keep individual control. Consequently slaves can trig and play different scenes. The master acts like a general remote imposing triggering to the slaves.

**MODE MASTER/SLAVE « Default »**

A single interface can be define as master (lower serial number by default), others ones are automatically set to slaves. The master device play the current scene and synchronize the slave ones. The master forces the slave interfaces to play the same scene and the same step at the same time. The slave interfaces are forced to follow the master timings and triggers and they cannot act, play or trigger a scene independently. Master can trigger on and trigger off scenes of the slave interfaces.

**MODE MASTER/SLAVE « Desynchronized»**

An interface can be define as master, others are automatically set to slaves. All Triggers On or Off operated on the master interface are effective to slave ones. However slave interfaces are not synchronized with master’s timing and keep individual controls. Consequently slaves can trigger and play different scenes at any time and not synchronized with the master ones. The master acts like a general remote imposing triggering to the slaves with total priority. Master can trigger ON and trigger OFF scenes of the slave interface.

**MODE MASTER/SLAVE « LTP »**

LTP means Latest Takes Priority. All interfaces are defined as slaves. Interfaces are not synchronized with timing and can trigger and play different scenes by itself. However triggers from an interface are passed to the others connected interfaces automatically and slave interfaces are forced to trigger the same scene. Here each interface acts like a general remote imposing triggering to the other slaves without synchronization.

**THE «NO RELEASE» Option**

This option is only available with LTP or DESYNCHRONIZED modes. Only triggers ON from the master interface are executed and effective. All triggers OFF are ignored and slaves interfaces keep playing their current scene. Each Slave interface can choose to release or not its scene depend on the option is activated or not.
SD CARD

It is possible to save your show on micro SD card. The Card must be format as FAT 32 and 16 Gb Maximum.

In standalone mode, click to “Save on SD card”, select a place to save the show on the computer or directly at the micro Sd card root.

![Image]

To play in standalone the SD show, insert the card into the CQSA micro SD slot and when the card is booted, the display will show "Sd" to indicate that the SD show is playing.

The show file must be paste to the micro SD root, it can not be played if it is renamed.

BATTERY

The battery allow to keep the clock and calendar settings in memory when the device is not powered.

The clock can keep the time and date up to 10 to 30 days, depending on the charging time and the type of battery included.

The device must be powered few hours to fully charge the battery.

WALL MOUNTING INSTRUCTIONS

The SLIM interface can we wall mounted on any place and surface.

Wires are connected to the screw terminal block located on back of the SLIM housing. To fix the SLIM housing to a Europe, Asia or America standard wall switch box, there are 4 holes located behind the housing.

Follow the mounting instruction to proceed.
FOR EUROPE AND ASIA STANDARD: 60MM CENTER TO CENTER DISTANCE.

1. Insert the screws in the hole (vertical axe for USA wall boxes else horizontal axe), adjust the screw position to hold well the housing.

2. Slide the housing to lock the screw in the slots

FOR AMERICA STANDARD: 84MM CENTER TO CENTER DISTANCE.

Use the screws of the wall switch box to old the SLIM
DIMENSIONS OF THE INTERFACE

The metric system is used. The unit is mm.

BOTTOM FACE

SIDE FACES

BACK FACE
Example of Multiple interface connections

Computer: MAC OS X Windows

USB 1
SLIM 1024
DMX 1
DMX 2

USB 2
SLIM 1024
DMX 3
DMX 4

USB 3
SLIM 1024
DMX 5
DMX 6

USB HUB

USB 4
SLIM 512
DMX 7

USB 5
SLIM 512
DMX 8

USB 6
SLIM 512
DMX 9
STANDARD DMX 512 INSTALLATION

RECOMMENDED DMX512 INSTALLATION