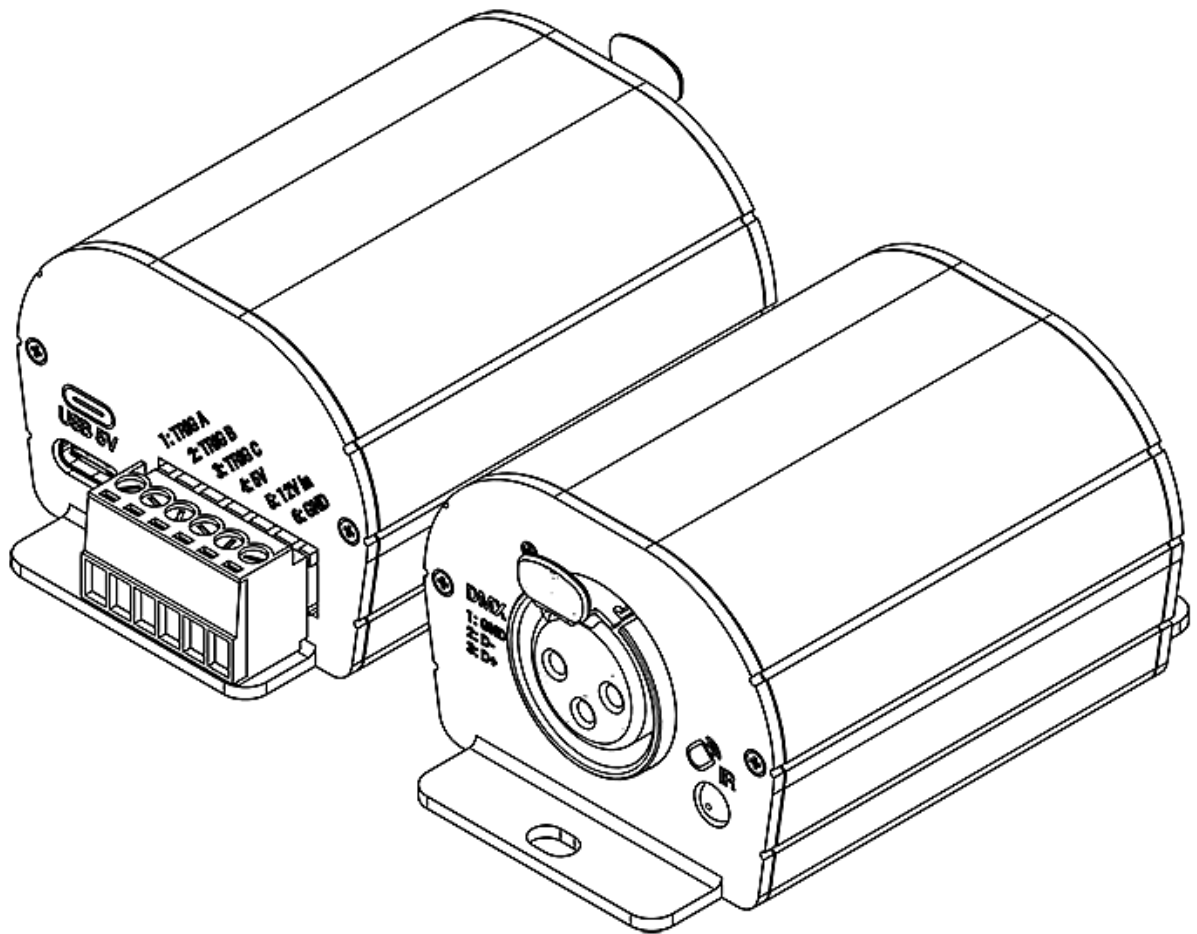
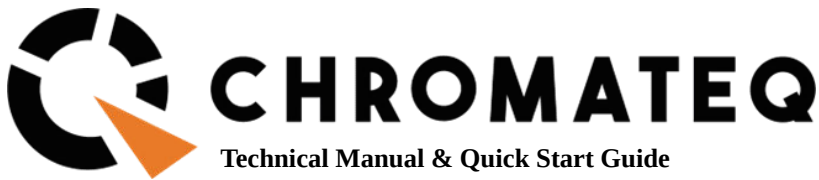


CLUB - 32

USB to DMX interface



Datasheet &
Quickstart Guide



Congratulations on your purchase of a CHROMATEQ controller.

Please read this manual carefully and thoroughly before using the CLUB Chromateq.

The information presented here provides a useful introduction to the wide range of features, settings and functions available in this compact and versatile CLUB

The CLUB Technical Manual is written in English and French.
(Le manuel technique du CLUB est rédigé en anglais et en français.)

All products and software are developed and designed in France.

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Package Contents

- 1x CLUB
- 1x USB cable
- 1x Power supply 9-12V DC (Euro/US socket)
- 1x software download link and technical documentation

Caution: Check the contents of the package and the condition of the interface after unpacking! Contact your supplier if something is missing or is damaged. Do not use the device if it appears to be damaged!

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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 5-18V 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	32 on 3 pin XLR (XLR5 optional)
DMX Speed	1 to 45 Hz, MaB, Bk
Stand Alone Mode	Yes, 32 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 via USB-C + 5~18V DC from connector, 0,1A
High voltage Protection	Yes
Housing	Strong Aluminium
Infrared remote	Not included (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	32 channels Live and Stand Alone
Studio DMX 3D viewer	Yes, real time
Art-Net Output from PC	No
Wi-Light 2 App	Yes, software control from mobiles and LAN and WLAN
System Compatibility	Windows, MAC Os X (10.6 and higher) and Linux (64 Bits)
Free Software Updates	Yes

Housing connectivity

Front panel

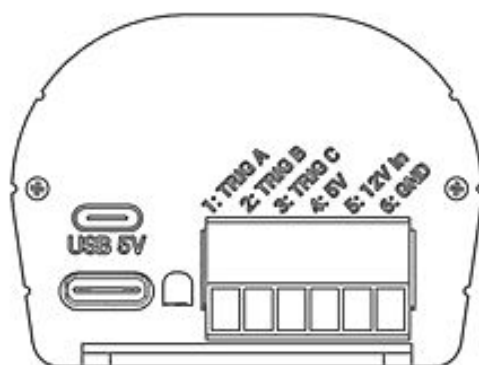


XLR Connector 3 pins

- 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 5-18V DC ; 0,1A or VCC (V+)
- 6: Ground (V-)

USB Signal LED operating states

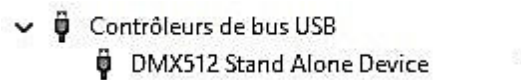
OFF	Interface not powered (check the USB cable or the power supply)
ON	Interface powered, No scene is playing
Fast Blinking	USB communication running with the software
Slow Blinking	Stand Alone mode and playing a scene
Flashing very fast	In bootloader mode, waiting to load a new firmware

USB drivers installation

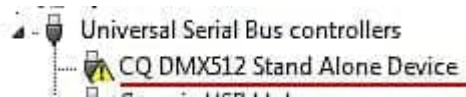
Install USB drivers to communicate with the device and change settings.
Installation of USB drivers is required only for Windows at the end of installation.
Drivers for Mac and Linux systems are installed automatically.

USB drivers verification :

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



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



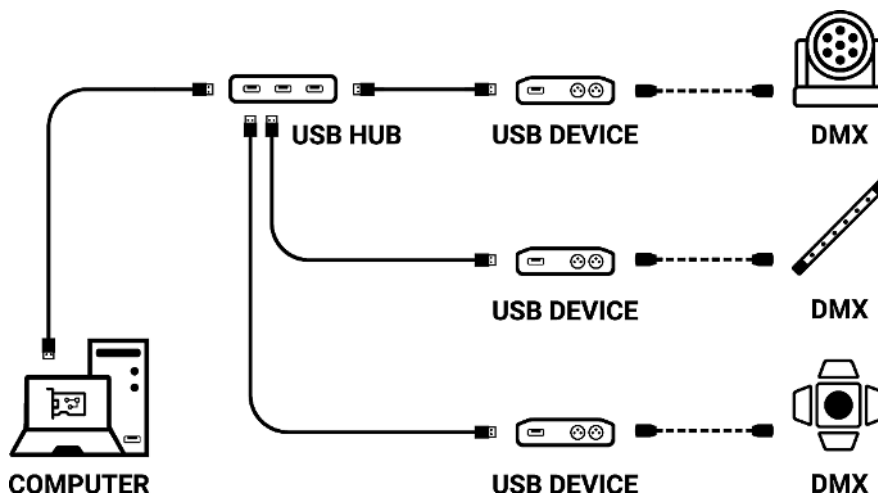
On Mac OS, simply check the USB device tree to view "DMX 512 Stand Alone Device". On Linux, use the "lsusb" command to view "DMX 512 Stand Alone Device" as a list.

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

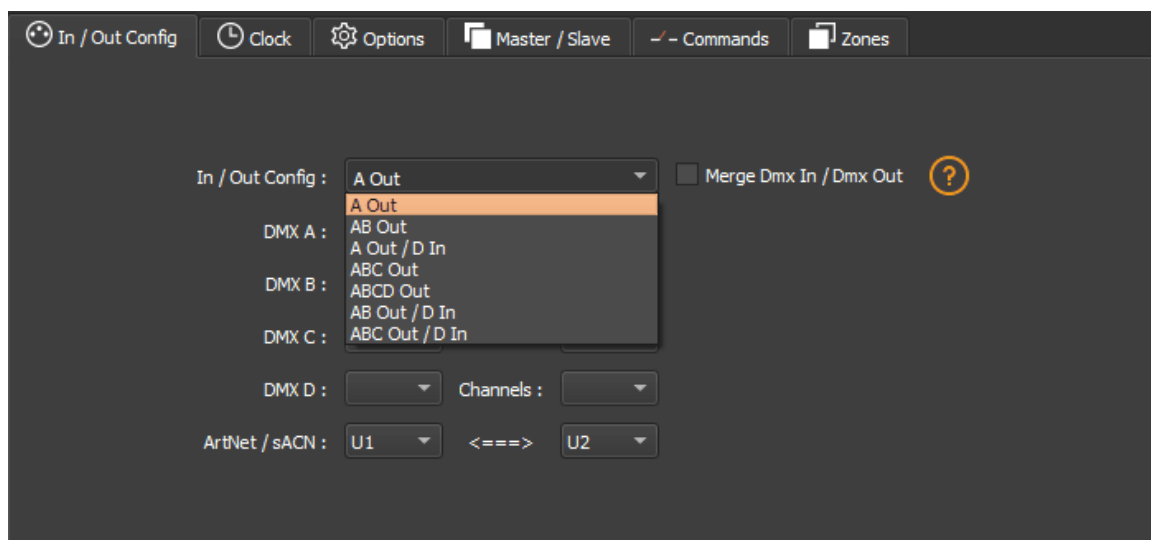


In standalone mode of the control software, configure the device according to the available options then select and configure the triggers of scenes to be written in memory.

Device configuration

IN/OUT tab

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



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

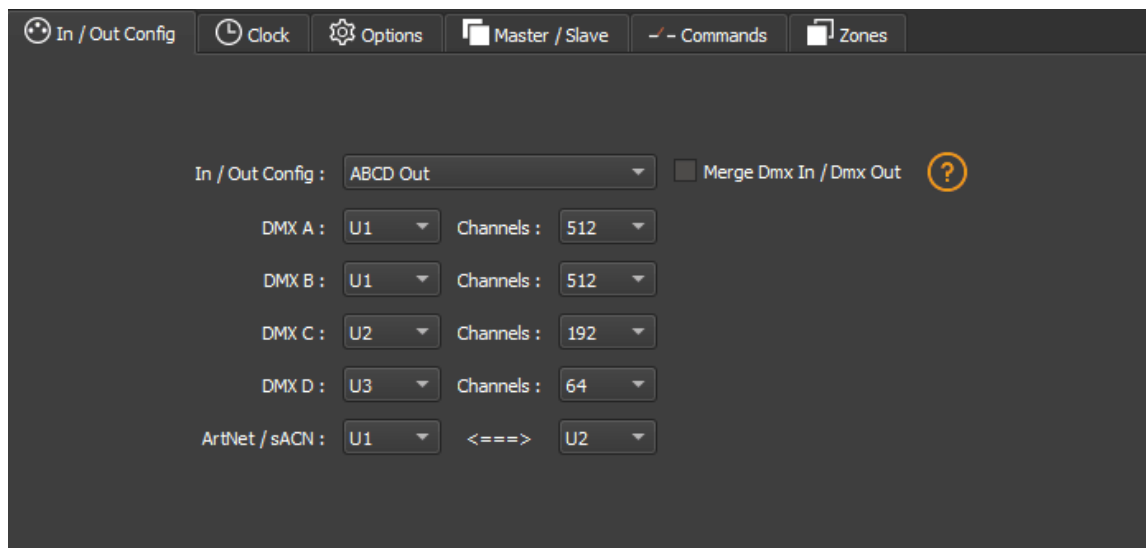
Available with interfaces with more than 2 or 4 DMX lines.

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.



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

Options tab settings:

- Turn off LED display after 4s: ☐
- Trigger delay (Bounce): 500 ms
- Scroll time: +1
- Select Dimmer channels: [button]
- Default start scene table:

Zone	Default start scene	Dimmer (DMX In)	Direct DMX levels (0-255)
Zone A	Scène 1	[dropdown]	☐
Zone B	[dropdown]	[dropdown]	☐
Zone C	[dropdown]	[dropdown]	☐
Zone D	[dropdown]	[dropdown]	☐
Zone E	[dropdown]	[dropdown]	☐

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.

Sélectionner les circuits Dimmer

Select Dimmer channels

Select RGBW channels

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 -)

The screenshot shows the 'Commands' tab interface. It features a top navigation bar with tabs: 'In / Out Config', 'Clock', 'Options', 'Master / Slave', 'Commands' (selected), and 'Zones'. Below the tabs, there are two columns of dropdown menus. The left column contains: 'Stop', 'Zone A', 'Zone B', 'Scene +', 'Zone +', 'Pause', 'Zone C', 'Zone D', 'Scene -', 'Zone -'. The right column contains: 'Blackout', 'Dimmer +', 'Dimmer -', 'Speed +', 'Speed -', 'Color +', 'Color -', 'CCT +', 'CCT -'. Above the right column, there are two sub-headers: '--- Short ---' and '--- Hold ---'. The 'Dimmer +' dropdown is set to '04 - C / T3'. The 'Dimmer -' dropdown is set to '04 - C / T3'. The 'Zone -' dropdown is open, showing a list of options: '01 - A / T1', '02 - B / T2', '03', '04 - C / T3', '05', '06', '07' (highlighted), '08 - D / T4', and '09'.

Scenes selection and configuration

	Name	Duration	Properties	Triggers	Zone
1	✓ Scène 1	00m 04s 000	00:00:000 #oo	●	A
2	✓ Scène 2	00m 09s 960	00:00:000 #oo	●	A
3	✓ Scène 3	00m 11s 000	00:00:000 #oo	●	A
4	✓ Scène 4	00m 02s 000	00:00:000 #oo	●	A
5	✓ Scène 5	00m 02s 000	00:00:000 #oo	●	A
6	✓ Scène 6	00m 02s 000	00:00:000 #oo	●	A
7	✓ Scène 7	00m 02s 000	00:00:000 #oo	●	A
8	✓ Scène 8	00m 03s 000	00:00:000 #oo	●	A
9	✓ Scène 2	00m 03s 000	00:00:000 #oo	●	B
10	✓ Scène 3	00m 02s 400	00:00:000 #oo	●	C
11	✓ Scène 4	00m 09s 960	00:00:000 #oo	●	D

Device: Triggers Time triggers Schedule activation

RS232 ?

Restore if power off ?

Play in priority ?

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

RS232 ?

Restore if power off ?

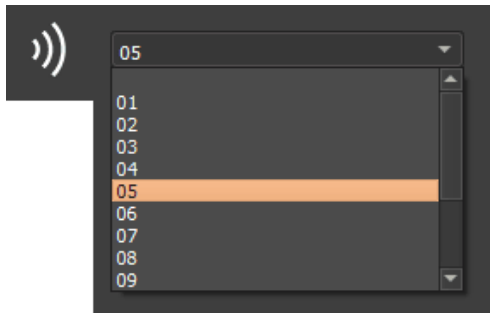
Play in priority ?

Infrared Trigger

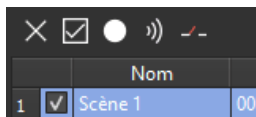
For devices that do not have this trigger option an Infrared kit is available containing an IR receiver and a remote control.

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.

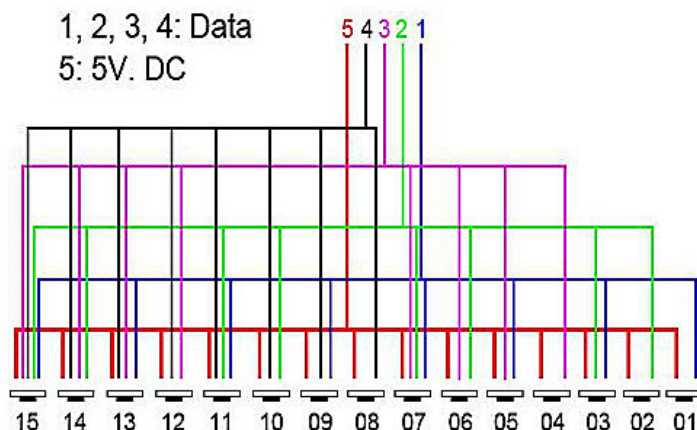


Automatically assign buttons to all scenes in the list by clicking the Infrared icon on the scene list toolbar.

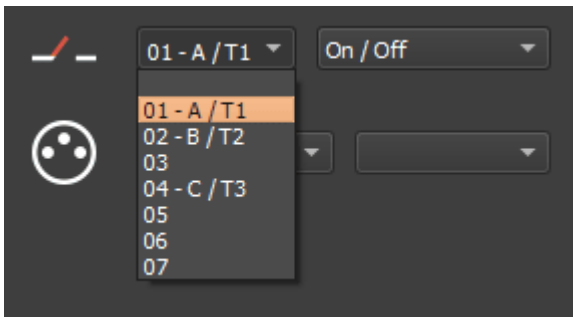


External contacts Trigger:

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)

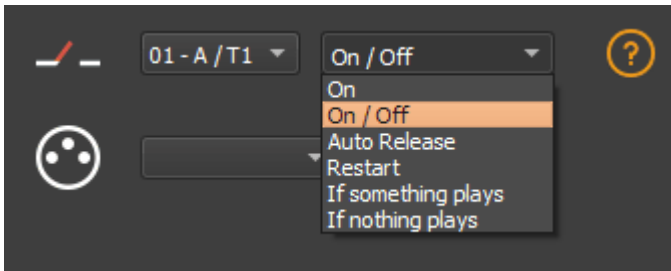


Example of multiplexing system with 4 external contacts extended to 15.



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.

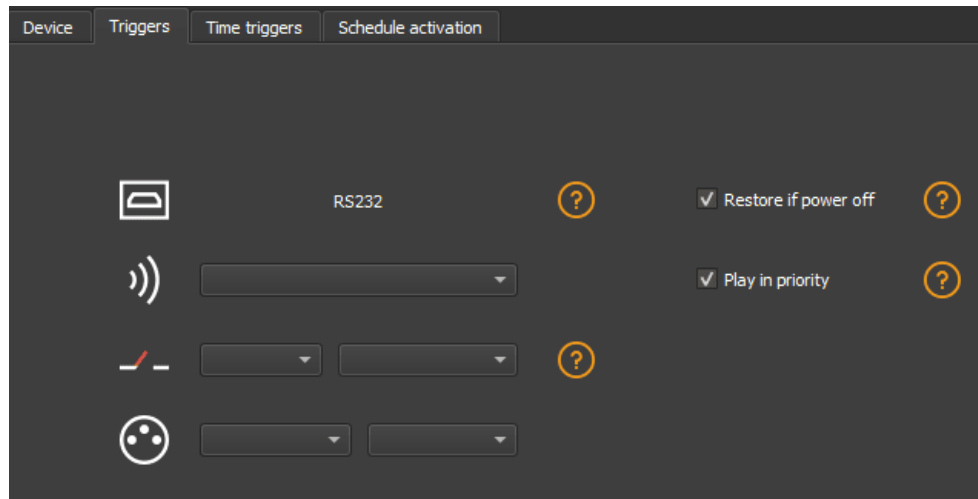
These two interdependent options allow the same contact to be assigned to two different scenes.

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

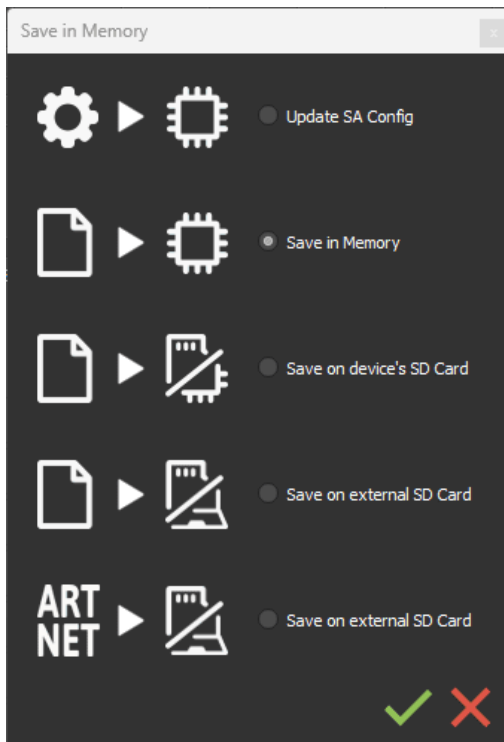
By checking this option in the "Triggers" tab, the selected scene plays continuously until its end, without taking into account other triggers, except for time triggers and physical buttons on the device.

Save in memory option

Check scenes that need to be saved in memory.

		Name	Duration	Properties	Triggers	Zone
1	☒	Scene 1	00m 14s 400	00:05:000 #00		A
2	☒	Scene 3	00m 00s 480	00:03:000 #00		A
3	☒	Scene 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 #00		A
6	☒	Scene 6_copy_1	00m 05s 000	00:00:000 #00		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 #00		A
9	☐	Scene 6_copy_4	00m 07s 000	00:00:000 #00		A
10	☐	Scene 6_copy_5	00m 07s 000	00:00:000 #00		A
11	☐	Scene 6_copy_6	00m 07s 000	00:00:000 #00		A
12	☐	Scene 6_copy_7	00m 07s 000	00:00:000 #00		A
13	☐	Scene 6_copy_8	00m 07s 000	00:00:000 #00		A
14	☐	Scene 6_copy_9	00m 07s 000	00:00:000 #00		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 #40		A
18	☐	Scene 19	00m 13s 000	00:00:000 #2		A
19	☐	Scene 20	00m 04s 000	00:00:000 #2		A
20	☐	Scene 21	00m 03s 500	00:00:000 #2		A

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.

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.

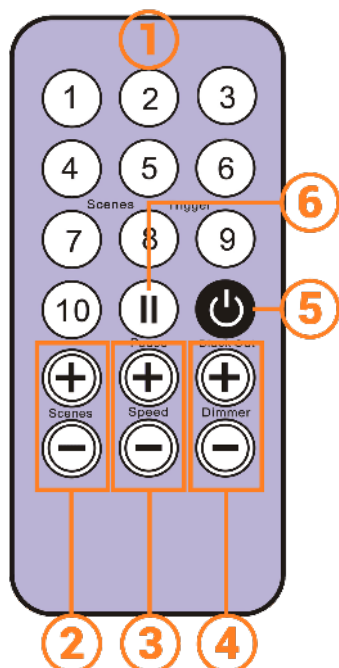
How to use IR Remote

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

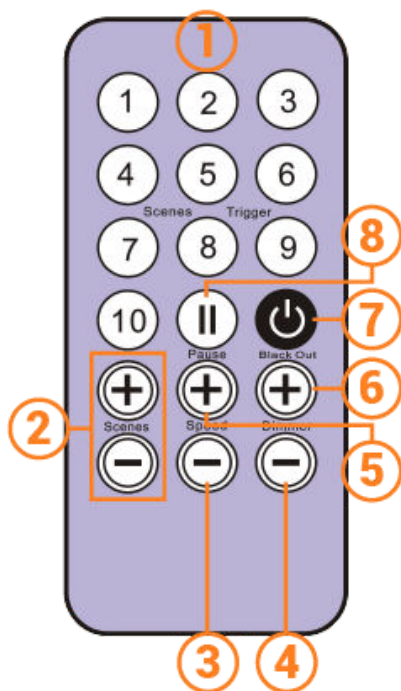
Previous Remote Control Unit (Before 2022)

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 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** decrease
4. **Speed value** increase
5. **Dimmer value** decrease
6. **Dimmer value** increase
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

Functioning for Interfaces with Modes



1. **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.

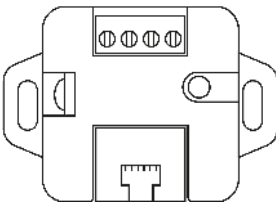
Zones: Choose a Zone (A,B,C,D,E or Global []). Then select a scene or mode to trig in the selected zone.

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

IR Codes



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.

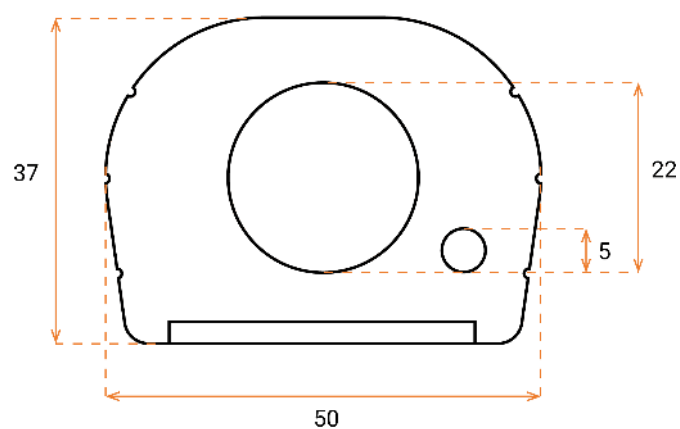
Light sensor

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.

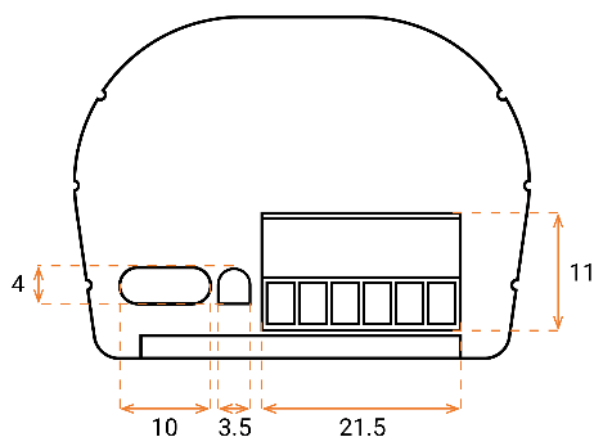
See "Time-controlled scenes".

Housing dimensions in mm.

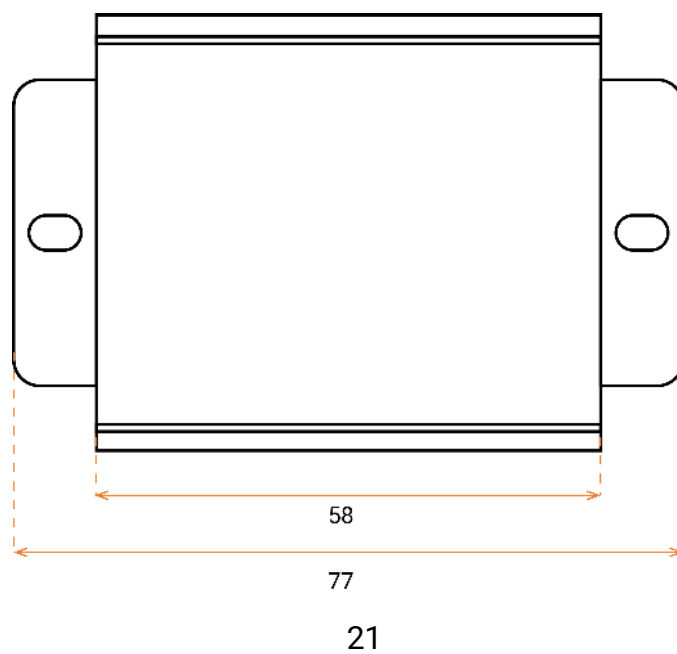
Front



Back



Tops



Troubleshooting

The device is not detected by the DeviceTool or USB software.	Unplug to restart the device.
	Change the USB cable
The device is not detected by the DeviceTool or Ethernet software.	Unplug to restart the device.
	Change the Ethernet cable
	Check the selection of the Ethernet network before opening.
The device is not detected on the network.	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 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.
The device is blocked in standalone mode and it cannot establish communication with the 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 Check the mode of communication with LED signals.
	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 show.(optional) 2) Unplug the interface. 3) Start the software and wait for the software to be on the 1st page of the wizard with the selected 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.
The device does not restore the Art-Net or sACN show.	Before commissioning, plug the RJ45 cable before powering.
	Replugging the power supply
	Insert the SD card again (Reset)
	Device with display Select ArtNet (Ar) mode again, sACN (AC) in 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



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