

DEVICE MANAGER USER MANUAL



bitonlive

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Management of External Device

Device Manager is software of **BitOnLive** that centralizes configuration and control of external devices using IP communication with a proprietary protocol.

Among the apparatuses that you can manage, there are matrices, GPIO, Serial. Through the **Device Manager**, you can view the status of matrices and doors GPIO at any time.

BitOnLive has also created **Device Monitor**, a tool that allows you to manage the external devices without affecting their configuration.

The integration of systems **BitOnLive** allows managing the devices configured with **Device Manager** also through the **Philo Media Manager** automations.

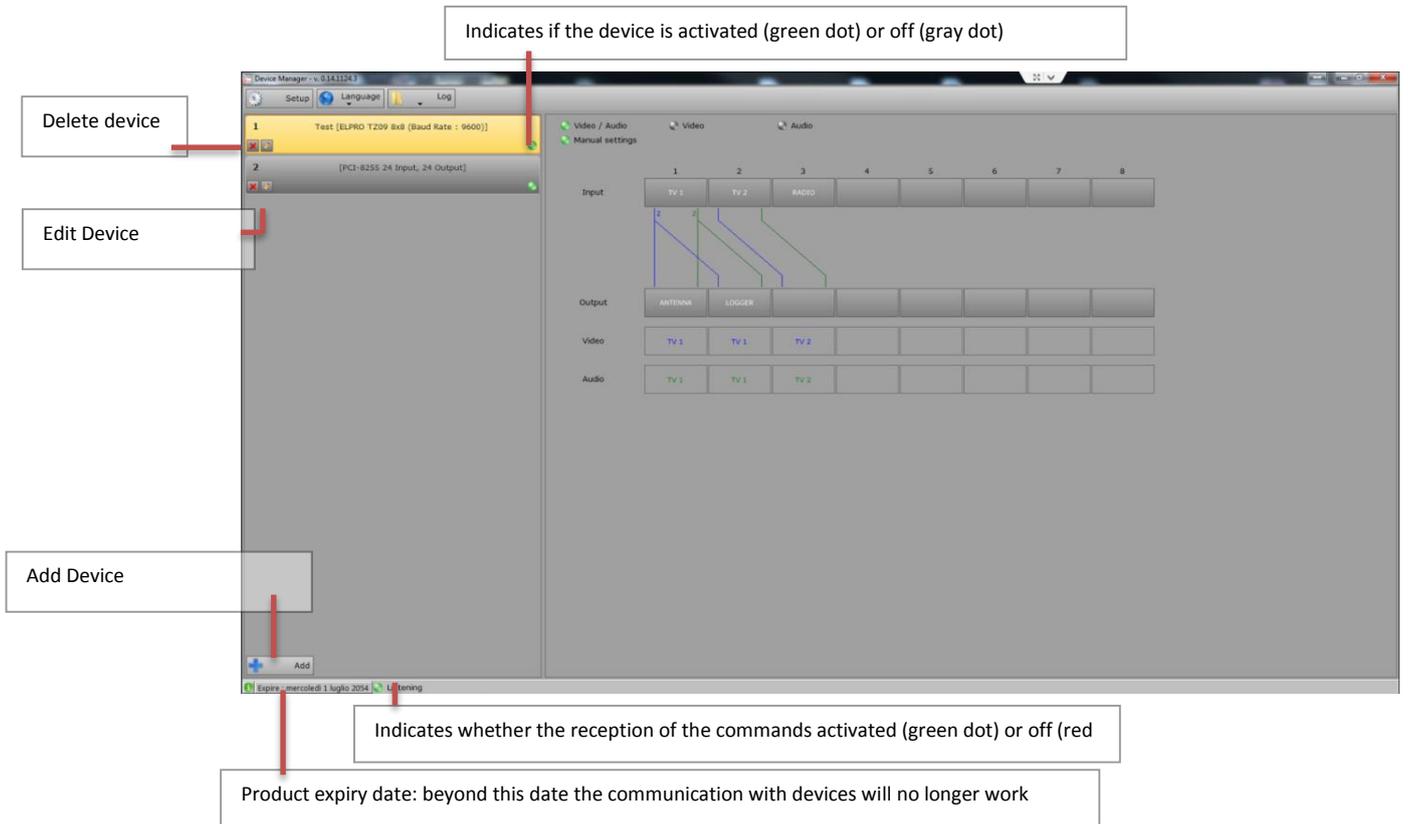
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Device Manager

In the main screen shows all the devices that you want to check and selecting the device will display the status of the doors GPIO or connections for the matrices.

The displayed item will be highlighted with a yellow background



Video Router

Manual settings: If active allows you to perform switching operations directly from Device Manager (otherwise the switching operations are performed through the **Device Monitor** or through the definition of the **automations** in **Philo**)

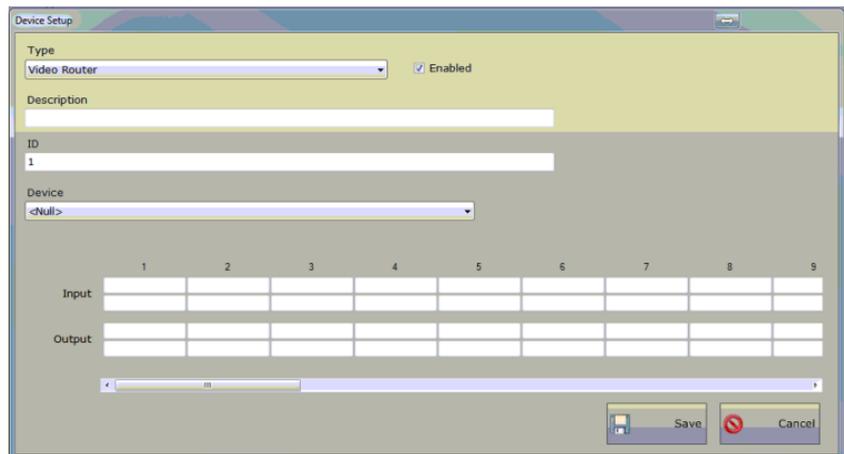
To perform the switching manually first press the button corresponding to the input and then that of the output

Video / Audio: Indicates that is switched both video and audio

Video: Indicates that is switched only the video

Audio: Indicates that is switched only audio

Allows you to view the status of the matrix and perform switchings.



Enabled: Indicates if communication with the device is enabled

Description: this is the description of the device

ID: the unique identifier of the device

Device: Device Type selectable among those present in the list

Input, Output: label that you can assign to each port of the device

According to the selected device, configuration parameters can change:

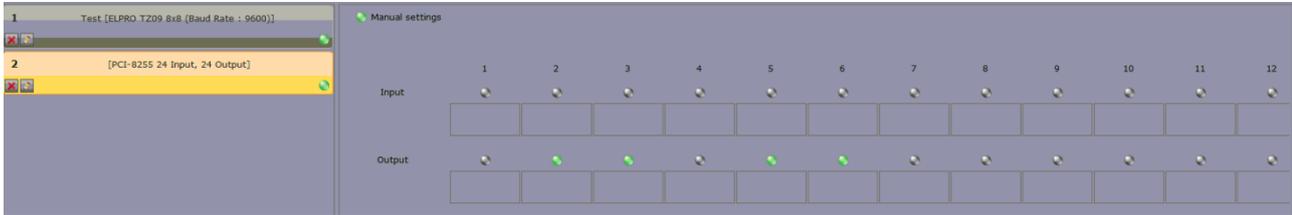
- **Read Timeout status (ms):** time since reread the status of the device so as to view a video
- **Wait after write (ms):** Minimum time waiting between two switching
- **Address:** The address for communication with the device
- **Port:** Port for communication with the device

GPI

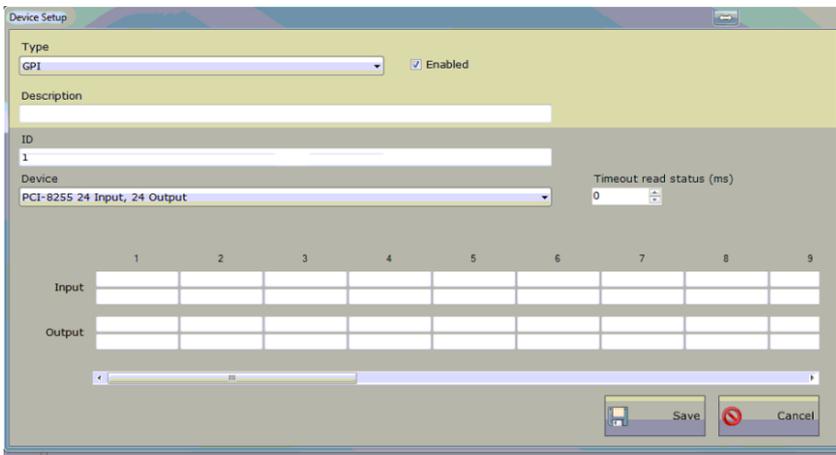
Manual settings: If active allows you to perform switching operations directly from Device Manager (otherwise the switching operations are performed through the **Device Monitor** or through the definition of **Automations in Philo**)

To change the status of an output press on the corresponding dot.

Inputs are not manually switchable.



Allows you to view the status of the GPI and change the status of the output pin.



Enabled: Indicates if communication with the device is enabled

Description: this is the description of the device

ID: The unique identifier of the device

Device: Device Type selectable among those present in the list

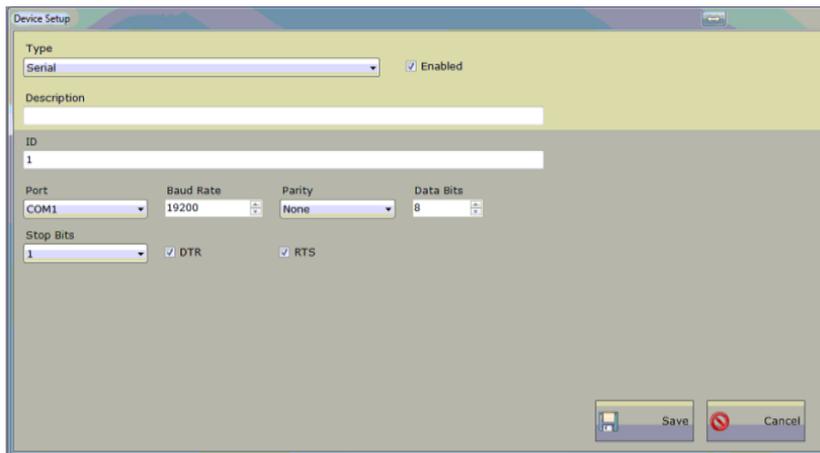
Input, Output: label that you can assign to each port of the device

According to the selected device, configuration parameters can change:

- **Read Timeout status (ms):** time since reread the status of the device so as to display it
- **Wait after write (ms):** Minimum time waiting between two switching
- **Address:** The address for communication with the device
- **Port:** Port for communication with the device

Serial

Allows you to communicate through the serial port



Enabled: Indicates if communication with the device is enabled

Description: this is the description of the device

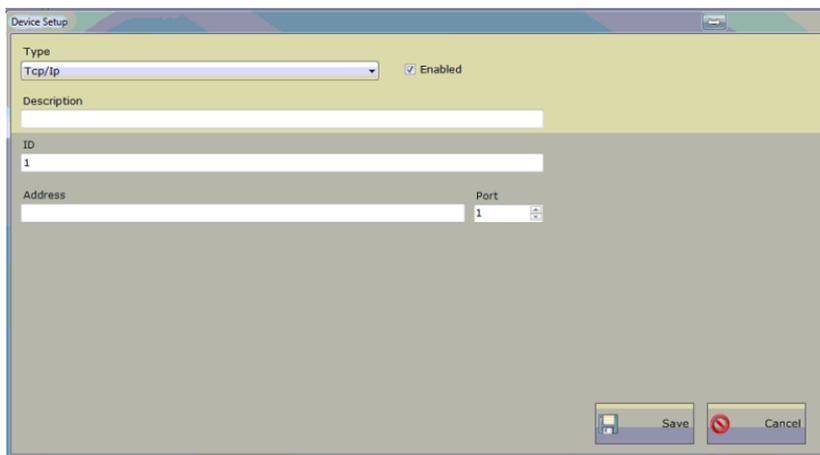
ID: The unique identifier of the device

Port: serial port with which to communicate

Baud Rate, Parity, Data Bits, Stop bits, DTR, RTS: Parameters of serial

TCP/IP, UDP

Carry out communication through the TCP/IP or UDP



Enabled: Indicates if communication with the device is enabled

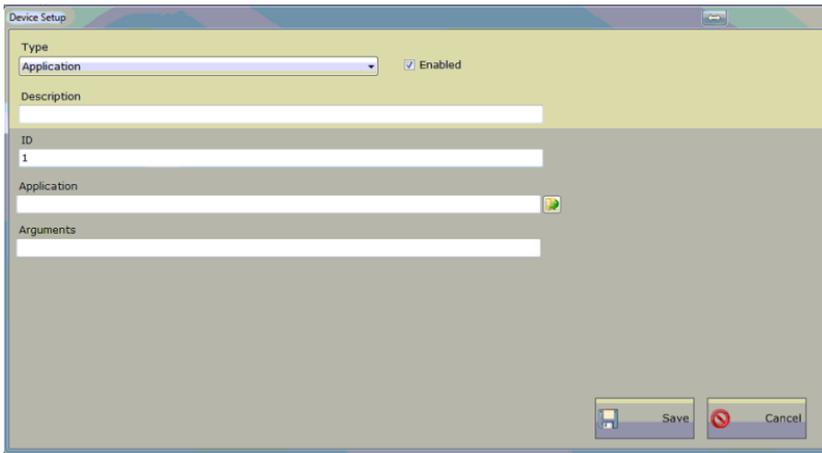
Description: this is the description of the device

ID: The unique identifier of the device

Address, Port: address and port to which send the commands

Application

Performs application every time that the command is received



Enabled: Indicates if communication with the device is enabled

Description: this is the description of the device

ID: The unique identifier of the device

Application: application to run

Arguments: Any commands to pass to the application on the command line

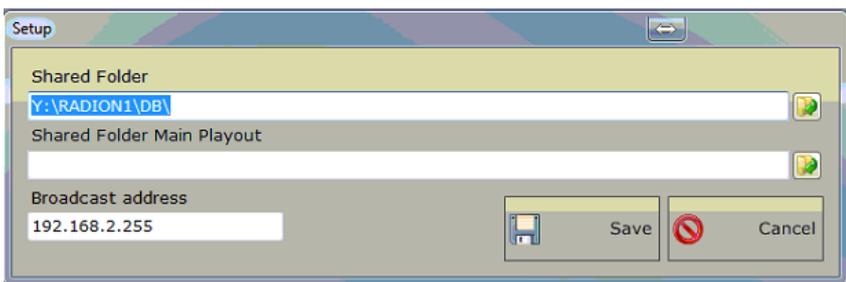
Setup

Shared Folder: Folder where information is stored

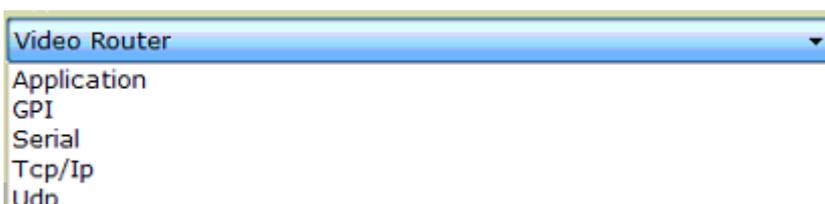
Shared Folder Main Playout: backup folder where information is stored

Broadcast address: Broadcast address where to receive information.

Value of 255 indicates that part of the address is variable, lower values indicate that it is a fixed part (values vary depending on whether the network is Class A, B, C).



When you add a device, you can choose the type among those in the list:



Because of the selected device, you will need to enter the appropriate information.

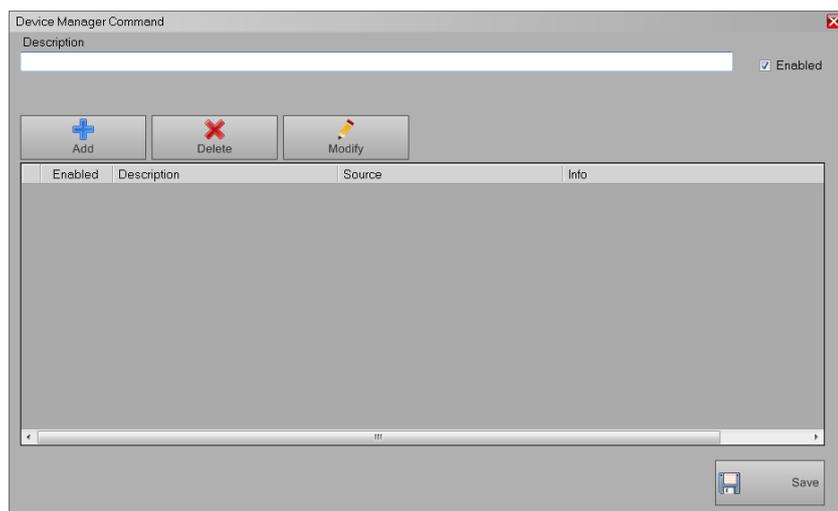
Create commands in Philo Media Manager

Commands

Select from the menu **Device Manager -> Commands**

Select from the dropdown menu the computer on which you installed the Device Manager to manage.

Use the Add button to add a new list of commands that you can send to the **Device Manager**.



Description: Enter a name identifier for the list of commands

Enabled: Enables or disables the list of commands that you are changing

Use the following keys to manage the individual commands:



Adds a new command to list

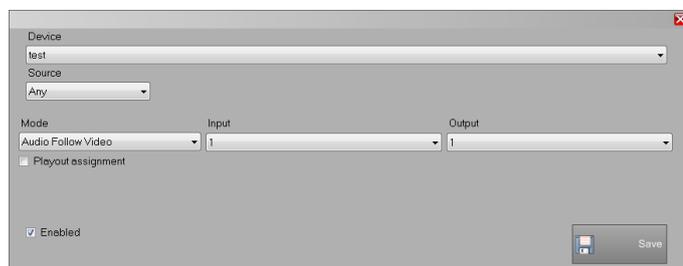


Delete the selected command



Edit the selected command

By clicking **Add**, it is possible to add the individual commands to list



Select from the **Device** menu one of configured devices in Device Manager;

Select the source to associate the command:

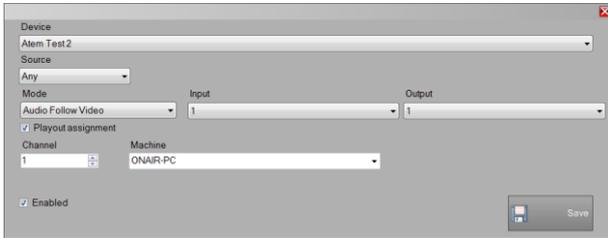
Any: Indicates that all software can send command

Editing: command is executed only by the **Edit** by **Philo Media Manager** (indicate the channel)

Playout: only the **playout** execute the command (indicate the channel and the computer)

Depending on the selected device, the parameters can change.

Video Router



Mode: indicate the mode switching

Input: indicate the input channel to switch

Output: Indicate which output to send the signal of the selected input

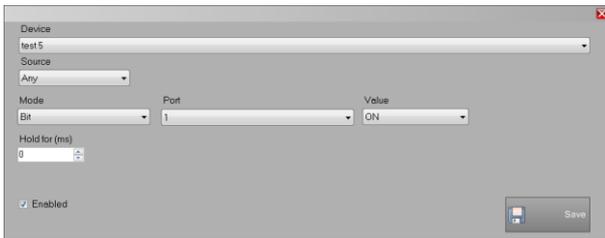
Playout assignment: with the execution of the command, set the main playout on the computer and the channel below selected

Channel: Select the channel for the assignment of the main playout

Machine: select the computer for the assignment of the main playout

Enabled: enable or disable the command

GPI



Mode: indicate the type of control (bit or byte)

Port: indicate the port to check

Value: Assign a value to the selected port (ON or OFF)

Hold for (ms): indicate the time in milliseconds in which maintain the value indicated (leaving the time to 0 (zero) the value is maintained until the next change).

Enabled: enable or disable the command

Serial

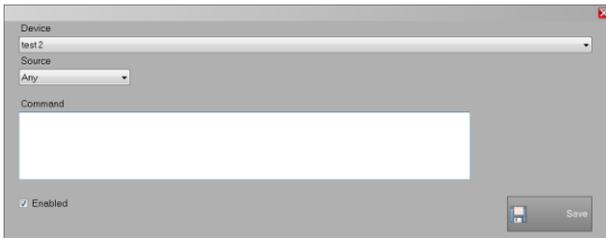


Mode: indicate the method of communication with the serial port (ASCII, Byte Hexadecimal,)

Command: Enter the command to send

Enabled: enable or disable the command

TCP/IP and UDP



Command: Enter the commands for the device connected

Enabled: enable or disable the command

Application



Argument: enter the additional arguments for the launch of the configured application

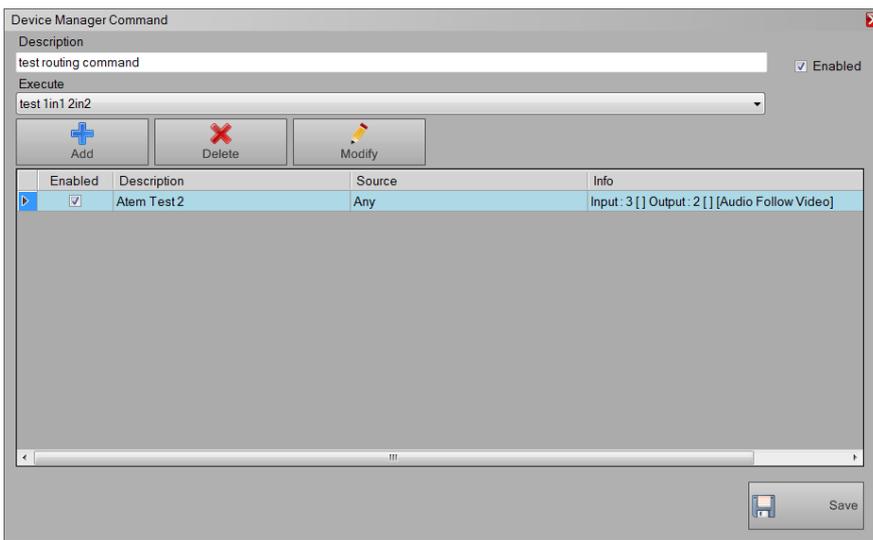
Enabled: enable or disable the command

When you have finished your changes click  to save.

Routing Commands

Select from the menu **Device Manager -> Commands Routing**

With this feature you can check the status of the device Video Routing or GPI and automatically run the commands defined above.



Description: Name of the routing command

Execute: select command to run from the list of commands that have already been created

Add a new control of the device by clicking 

Select the device type to be controlled among those indicated in the menu.

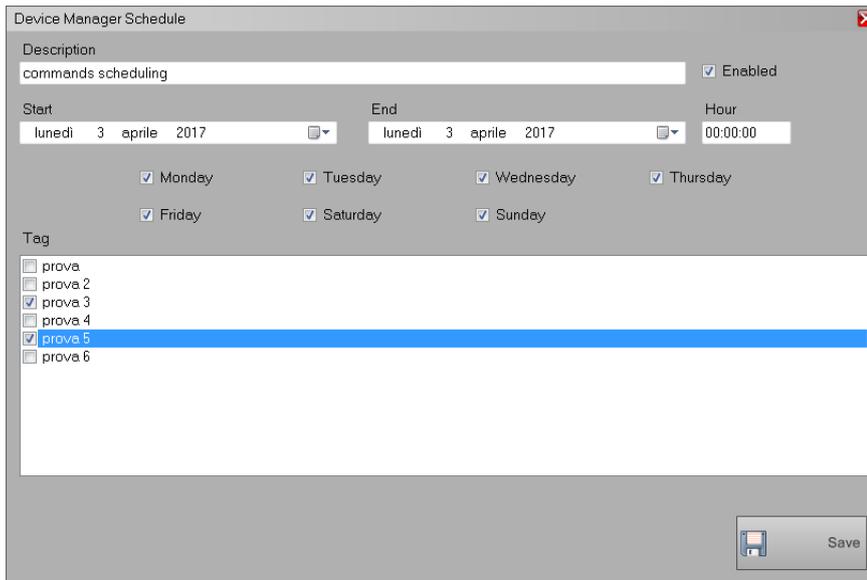
Depending on the device to insert the values, which, if taken from the device, will have to run, the command indicated.

Commands Scheduler

Select from the menu **Device Manager -> Commands Scheduler**

Select from the dropdown menu the computer on which you installed the Device Manager to manage.

Select **Add** to add a new scheduling of commands.



Description: Enter the name for scheduling

Enabled: enable or disable the scheduling

Start / End: indicate the period of validity of the scheduling

Hour: Indicate the time in which to perform the scheduling

Tick on the day of the week in which enable the scheduling that you are programming.

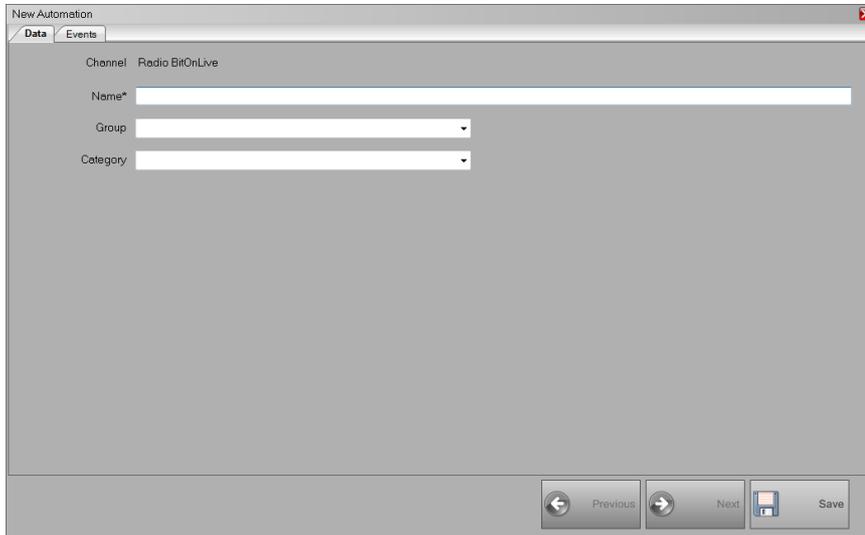
Tags: check from the list the groups of commands created by run for scheduling that you are programming

Managing Device Manager through automation

The commands to the **Device Manager** are programmable within the scheduling of **Philo Media Manager** using the automations.

Select from the menu bar **Database->Automation** and click **Add**.

In the main tab, you can indicate the general information of the automation.

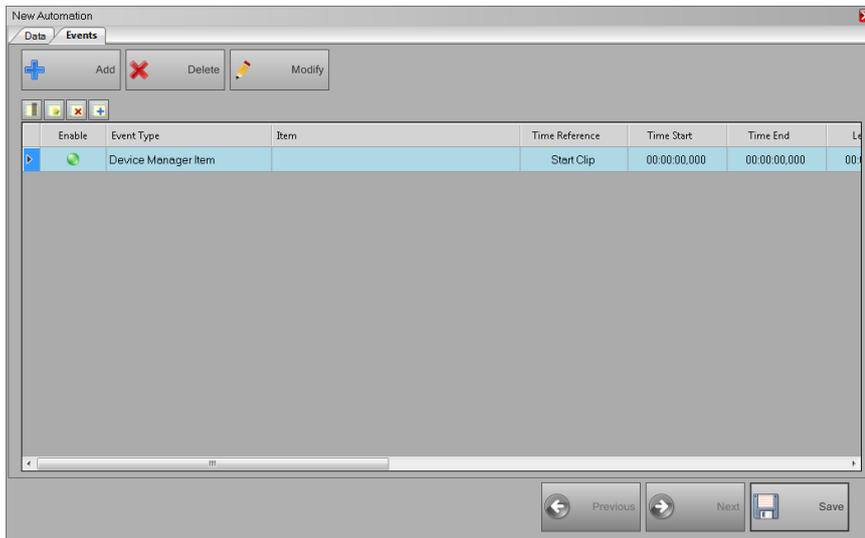


Name: The name identifier of the automation

Group: Group of automation

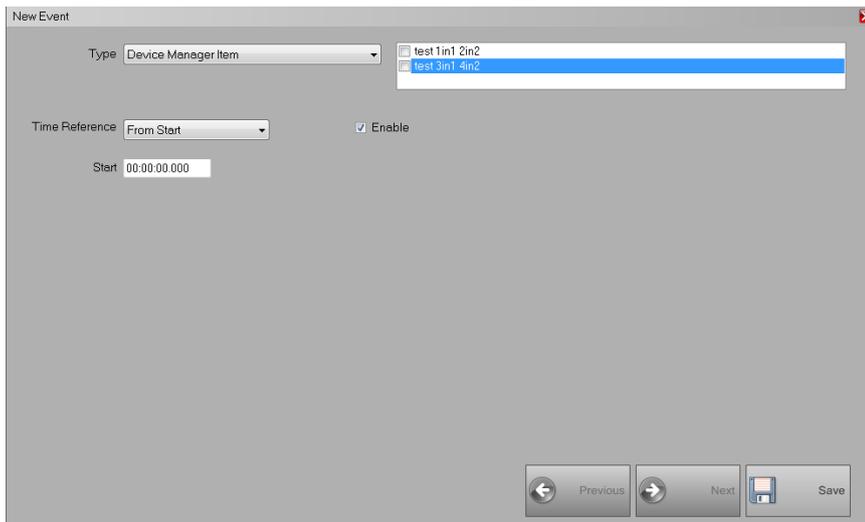
Category: category of automation

In the event tab, you can add all the events that you want to associate with the automation



Click **Add** to add a new event

From the menu **Type** Select **Device Manager Item**



In the section on the right side, you can select the combination of commands created

Time reference: indicates from which moment must be applied automation

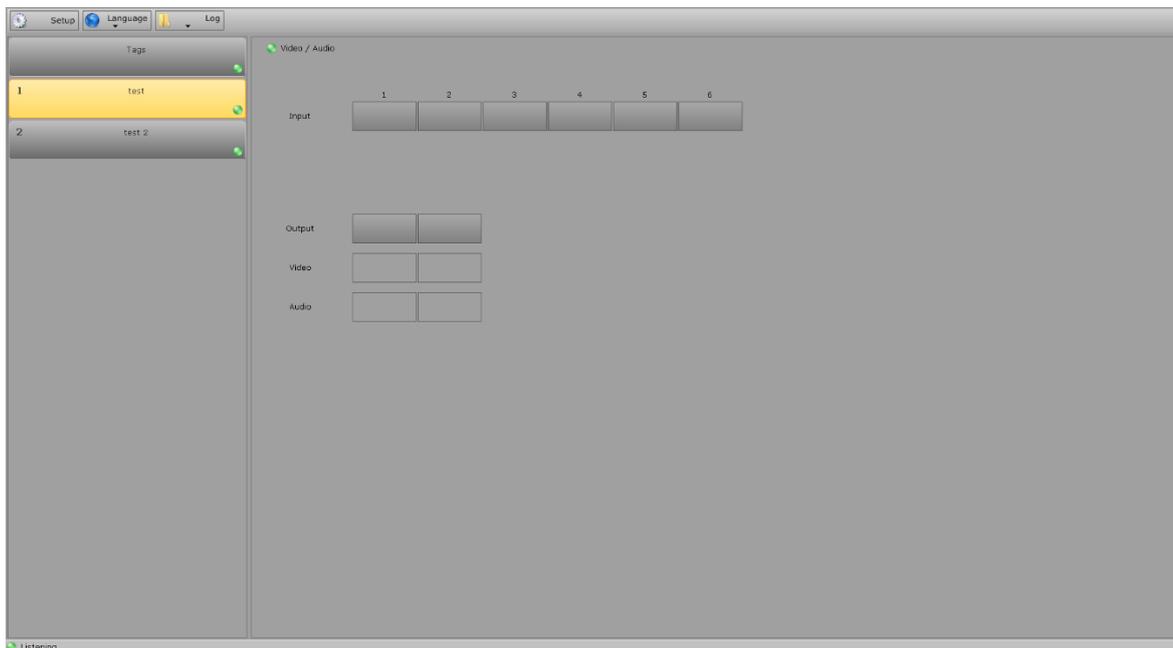
Enabled: enable or disable the automation event

Start: The time delay or advance with respect to the time reference set

Once saved, automation can be inserted in the scheduling by selecting it from the library or can be invoked through the **Event tab** inside tabs of songs, Clip, commercial or any other element of the database.

Device Monitor

The main window of the **Device Monitor** appears very similar to the **Device Manager**; the monitor in fact allows the user to make changes only to the operation of the devices without affecting the basic configuration of the devices themselves.



In the left part of the window are displayed all the devices that are configured through the **Device Manager** and commands configured in **Philo Media Manager**.

By selecting the device in the right part of the screen will display the status of the doors GPIO or connections for the matrix. The displayed item will be highlighted with a yellow background.

In **tags** section are added the relevant buttons to all controls created in **Philo Media Manager**. In this way it is possible to send the various commands to the various devices associated with a simple click.