**DigiShow LINK**

DigiShow is an easy-to-use software aims at controls for live performances and interactive shows with music, lights, displays, machines, robots and more digital things. It's a controller, console and smart gateway enables signal transferring between MIDI, DMX, OSC, ArtNet, Modbus, Arduino, Philips Hue and more interfaces.

With using DigiShow LINK app, there are some scenarios assumed:

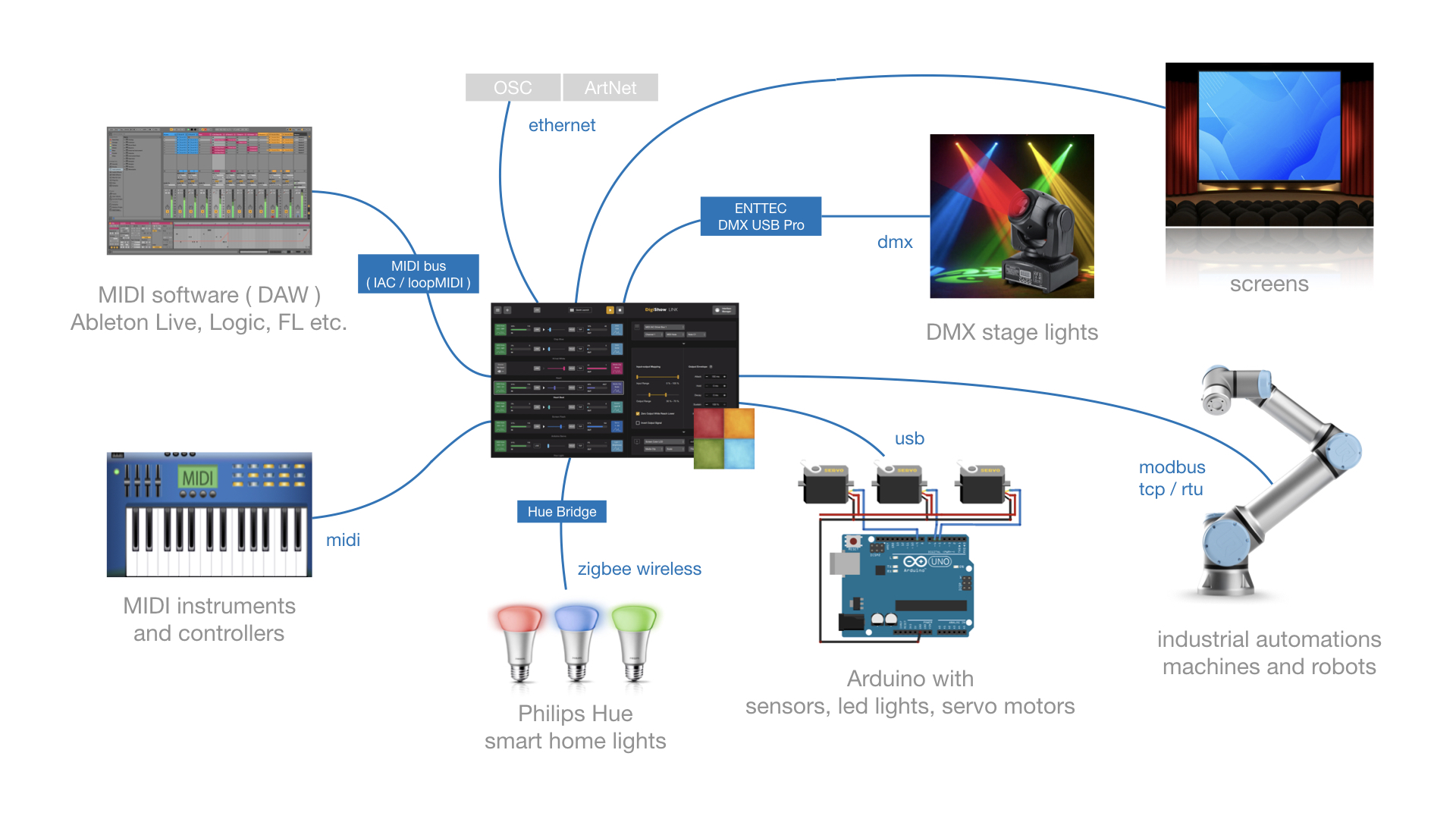
For live music or theatre performances, DJ or producers can arrange show lighting cues and stage automations in MIDI tracks alongside the music in Ableton Live or other DAW.

When playing drums, keyboards or other instruments, DigiShow can trigger dynamic show lighting or robot dancing via MIDI notes that follow the beats or the music.

When building interactive art installations, DigiShow can provides programmers an easy way to access hardware from Unreal Engine, Unity3D, TouchDesigner, web apps and more.

DigiShow is for all show makers even if they are hobbyists. Create the magical moments for your party time, or just make your house into a mini 'disneyland'.

Watch Video <https://www.youtube.com/channel/UCmswlPRHZ5FhZIxTHJWqj7w>



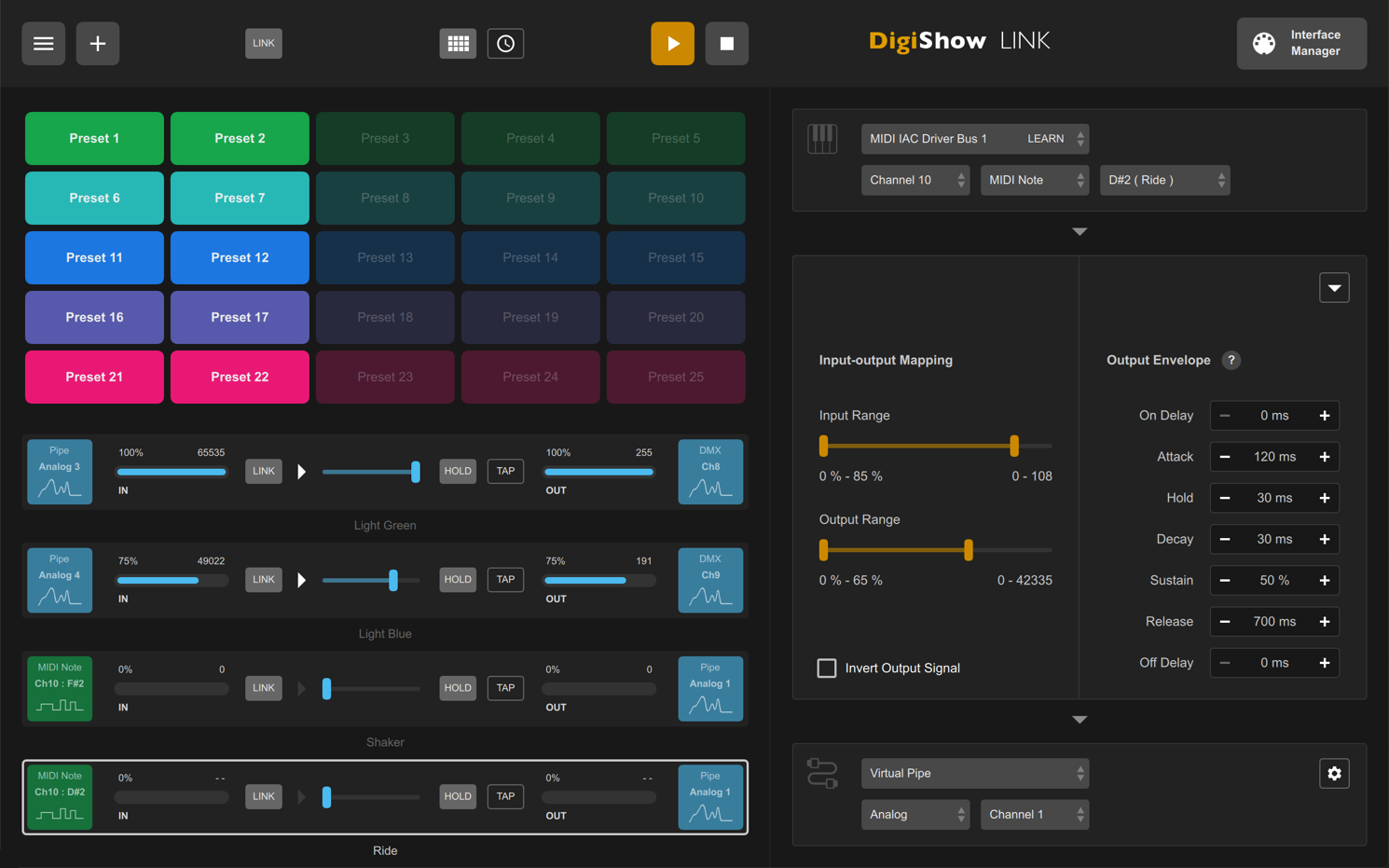
*For a typical 'digital' show, requires some particular digital things working together, along with DigiShow LINK.*

**Supported Interfaces**

DigiShow LINK app enables signal transferring between MIDI and other digital device interfaces like DMX, ArtNet, OSC, Modbus, Arduino, Philips Hue, as well as controls for media presentation on screens. MIDI notes and MIDI control changes are mapped and transformed to the signals for light, servo, media and more controls. Also, some input signals from sensors can be converted to MIDI notes or CC that will be able to be processed by other digital music software.

DigiShow LINK works well with other music software that supports MIDI input/output, like Ableton Live, Logic Pro, FL Studio, etc. We can arrange light, media and other actions on MIDI tracks with notes and CC automation.

* **MIDI** interface is typically for connecting your digital musical instruments, controllers, sequencers and digital music apps.
* **DMX** interface is typically for connecting your lights and fixtures on the stage.
* **OSC** interface is typically for connecting your interactive media control and creation applications.
* **ArtNet** interface is typically for connecting your show lights through an IP network.
* **Modbus** interface is typically for connecting your industrial automations, robots and machines.
* **Arduino** is an open-source electronic controller for making homebrew instruments, lights or gadgets for your interactive shows.
* **Philips Hue** is the popular smart home wireless-controlled lights.
* DigiShow can also control presenting videos, pictures and web contents with dynamic effects on multiple screens.



*Screenshot of DigiShow LINK app*

**App Features**

**Controller** DigiShow LINK app provides a simple user interface, with which you can easily configure the communication interfaces of various devices, and complete the patching of various input and output signals.

**Console** The most basic user interface of the app looks like a standalone console, which can be used to adjust output signals instantly by moving faders and view input signal changes in real-time meters.

**Gateway** The primary function of DigiShow is a smart signal gateway works with digital show facilities, it provides an efficient configuration method for signal mapping and conversion. Typically, DigiShow LINK runs on the computer as a service responsible for connecting devices, and manages show content and executes show logic in another separate software running in parallel. The show is completed in cooperation of both.

**Release Downloads**

Please visit <https://github.com/robinz-labs/digishow/releases/latest> to download the latest releases:

* DigiShow LINK for macOS (64bit)
* DigiShow LINK for windows (64bit)

Go to the page, where choose digishow\_mac\_x.x.x.zip or digishow\_win\_x.x.x.zip in Assets list to download.

**Install and Run**

Download and unzip the latest release file.

macOS:

Copy app "DigiShow" to your Applications folder and run it.

Windows:

Copy folder "DigiShow LINK" to your disk and run "DigiShow.exe" in the folder.

For some Windows version, also must run Extra\vc\_redist.x64.exe to install Visual C++ 2015 Redistributable to your windows system.

**Extra Downloads and Resources**

**MIDI** Virtual MIDI bus drivers (IAC / loopMIDI)   
In order to communicate with MIDI messages between DigiShow LINK and other software, users just need to setup a virtual MIDI bus in the operation system.   
  
IAC for Mac  
<https://help.ableton.com/hc/en-us/articles/209774225-How-to-setup-a-virtual-MIDI-bus>   
  
loopMIDI for Windows  
<http://www.tobias-erichsen.de/software/loopmidi.html>

**DMX** ENTTEC DMX USB Pro driver (FTDI VCP)   
Required to enable DigiShow LINK to control DMX lightings through an ENTTEC adapter.   
<https://www.ftdichip.com/Drivers/VCP.htm>

**Arduino** Sketch for Arduino remote IO controls   
Required to enable DigiShow LINK to configure and control IO on your Arduino units remotely.   
<https://github.com/robinz-labs/rioc-arduino/releases>

**Screen** K-Lite Codec Pack (for windows)   
Required to enable DigiShow LINK to play MP4, MOV video files on your Windows computer.  
<https://www.codecguide.com/download_kl.htm>

**Developer Resources**

DigiShow is open-source.

If you would like to rebuild this software using the source code we contributed, please visit <https://github.com/robinz-labs/> .

Please use qmake tool or QtCreator app to build executables from the source code, and confirm these library dependencies are required:

* Qt 5.12 or higher <http://www.qt.io>
* RtMidi 4.0.0 <http://www.music.mcgill.ca/~gary/rtmidi/>
* OSC library for C++ using Qt <https://github.com/MugenSAS/osc-cpp-qt>
* Ableton Link library <https://ableton.github.io/link/>
* global hotkey library <https://github.com/Skycoder42/QHotkey>

The source code can be compiled for target platforms compatible with:

* macOS 10.13 or higher
* windows 7, windows 10 or higher ( 64-bit version recommended )
* linux ( see Qt and RtMidi websites for compatibility details )