

TE Software Runbook

Quick Start

Quick Start: How to turn on the car

Startup sequence:

1. Turn on the Generator, or, if only trying to test computer systems, unplug the network rack from the car's power and plug into camp power
 - a. (Link to real genny checklist here)
 - b. Check DEF level on control panel
 - c. Check fuel level
 - d. Big Breaker OFF
 - e. Menu -> Start engine
 - f. Wait one minute for warmup
 - g. Big Breaker ON
2. Wait 2 minutes for computers to boot and the WiFi (TE LAN) to initialize

Orientation

All computers including the servers on the car have same login!

username: **te**
password: **SK9822**

They should all be connected to **TE-LAN** ethernet connection, NOT wifi to anything else.

We have two* laptops at front of house. BOTH should be used to remote desktop INTO the car – there are servers there that run the lights.

We remote in using application called "Screen Sharing". It's built into every Mac, you can find it using Spotlight or just look in Applications folder.

One laptop should view **LXStudio (LEDs)** on the car's server **10.1.1.1**

The other should view **ShowKontrol (DJ decks)** on **10.1.3.1**



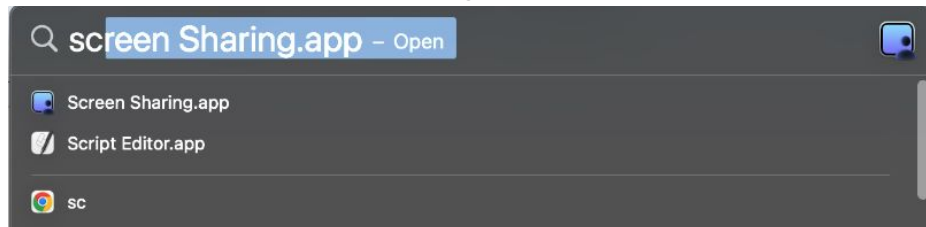
Viewing LXstudio.
Control which patterns play on the lights!



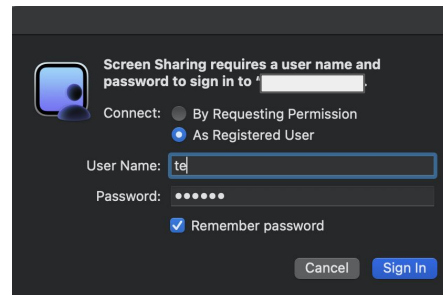
Viewing ShowKontrol
See what the DJ is about to play!

How to use FoH laptops to view servers on car with "Screen Share"

Step 1) CMD+Space then type "screen share". First result



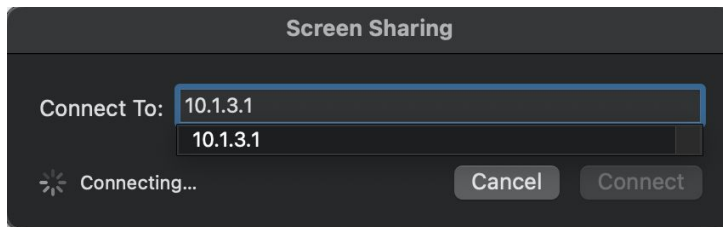
Step 3) Type in username/pass, hit ENTER



Step 2) Type in IP address:

10.1.1.1 if you want to view LXStudio (LED lights + patterns)

10.1.3.1 if you want to view ShowKontrol (DJ decks) or MaxMSP (OSC relay)



All computers including the servers on the car have same login!

username: **te**
password: **SK9822**

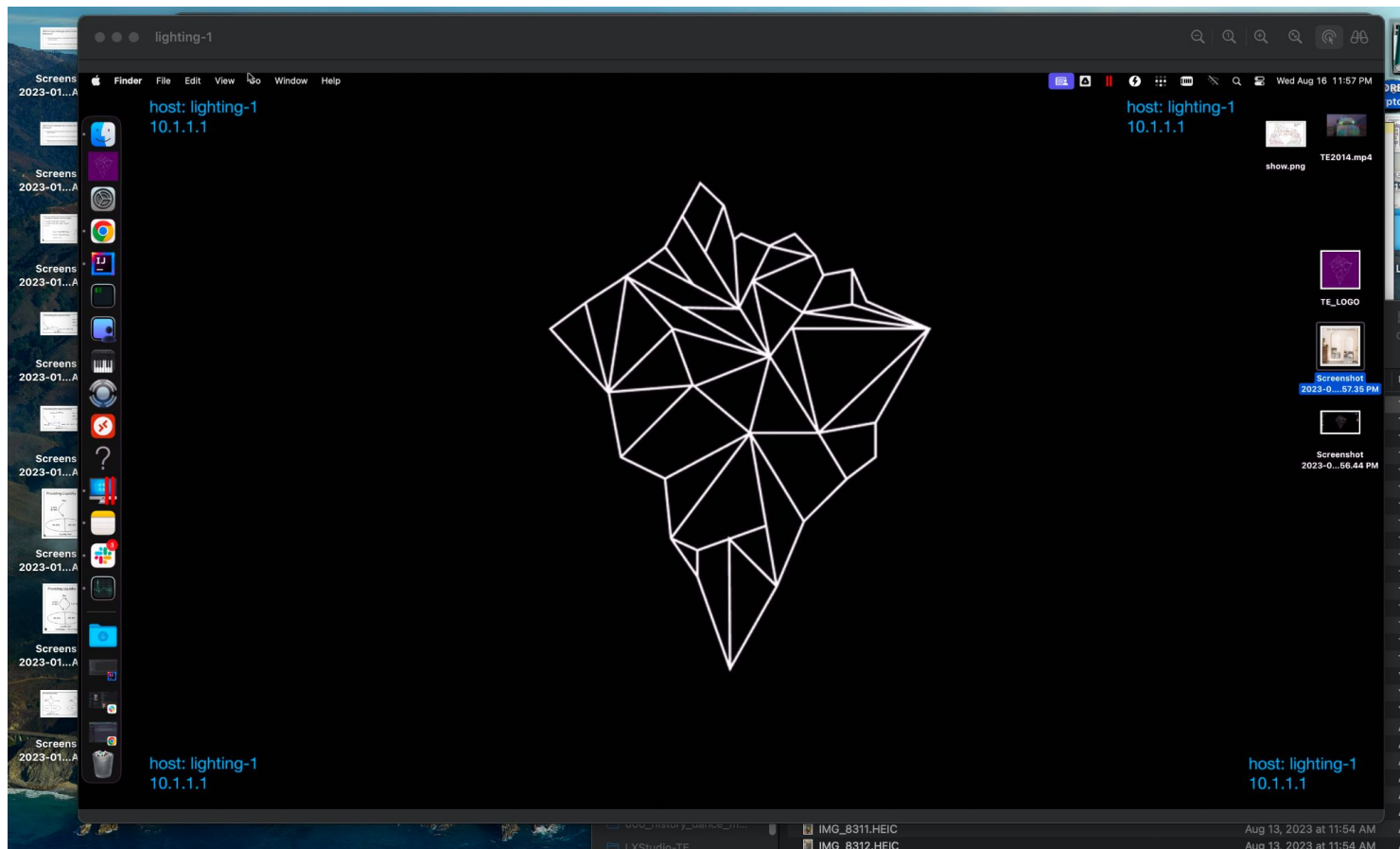
What "Screen Sharing" looks like

You'll see a
desktop
WITHIN YOUR
DESKTOP!

So crazy.

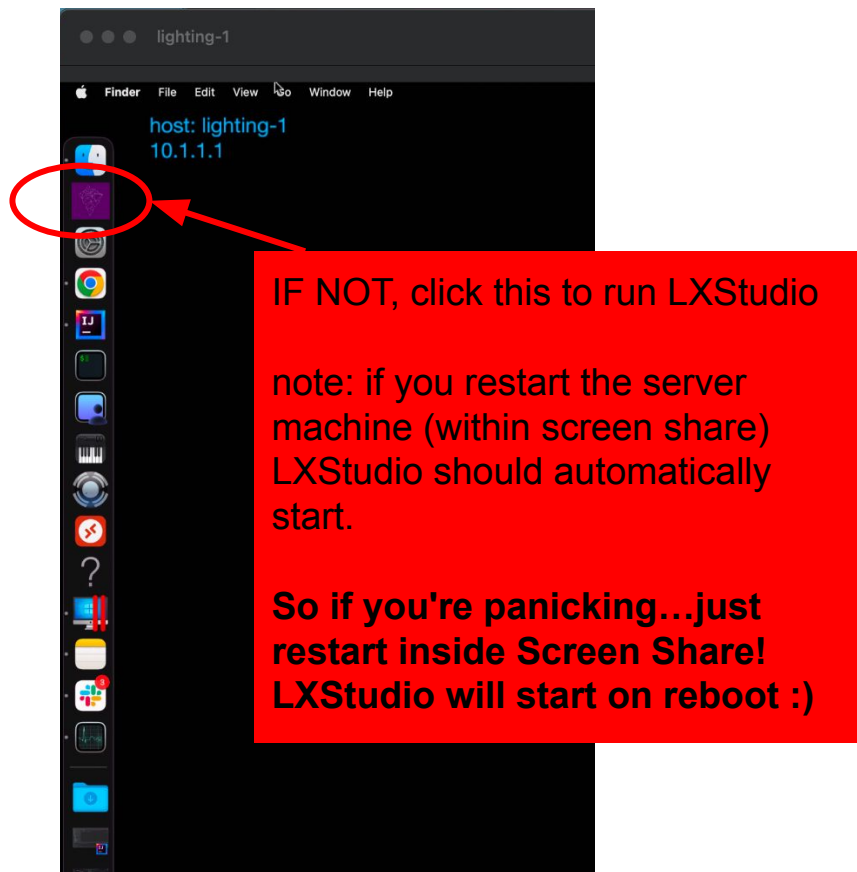
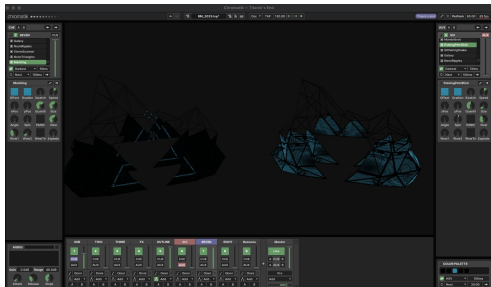
As you can see
by the desktop
wallpaper,
we're in
"lighting-1",
which is the
LXStudio
machine.

Great work,
you're in!



How to start LXStudio (LEDs) on Lighting-1 (10.1.1.1)

Check the sidebar / open windows. If you see LXStudio running it will look like this (see below):



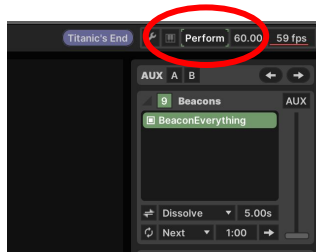
AutoVJ: OK LXStudio (LEDs) are running, but ...

I'm drunk OR tired OR need a break OR want to let our AI overlords loose for a bit

SOLUTION: TURN ON AUTO VJ!

Step 1)

First, get in "Design" mode. You'll find a toggle in the upper RIGHT hand corner. If you see "Perform" click it. If not, go to step 2)



Step 4 (alternative to Steps 1-3))

The USER button on the APC40 will toggle AutoVJ on/off! **Much easier.**

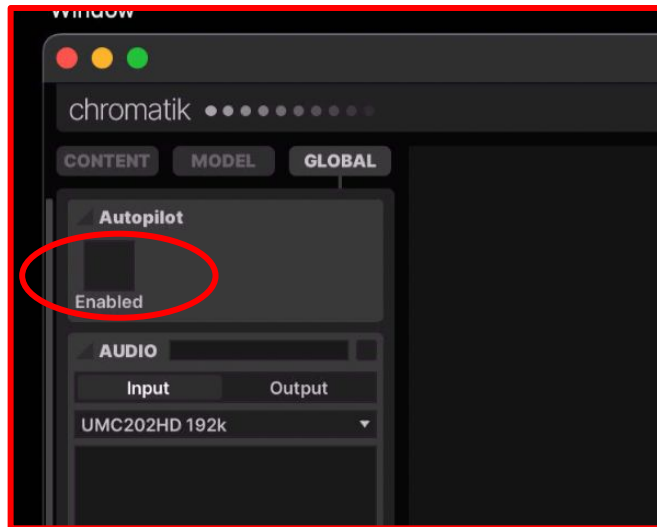
Step 2)

Check the upper LEFT hand corner of LXStudio > Global > Autopilot > Click "Enabled"

Step 3)

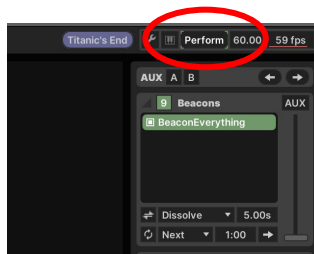
Profit! It knows when drops are happening, syncs to beat if DJs set up library properly.

If you don't see phrases (CHORUS, UP, etc) in Showcontrol, or you just want to drive again, disable it whenever and go back to human control.



How to turn stuff on and off in LX

- 1) Make sure you are in Design mode. You can toggle between Perform and Design mode by clicking this word in the upper right toolbar or by pressing the SESSION button on the APC40.

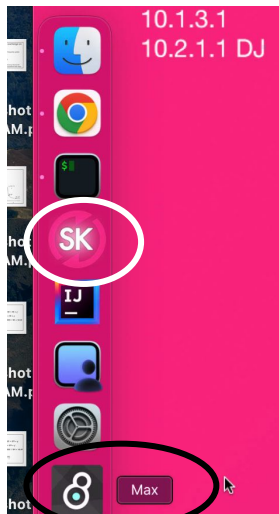


- 2) On the left side, click MODEL. Under the DEV SWITCH group you can control all the relevant ins and outs. If something isn't working, step 1 is to come here and turn it off and back on again.



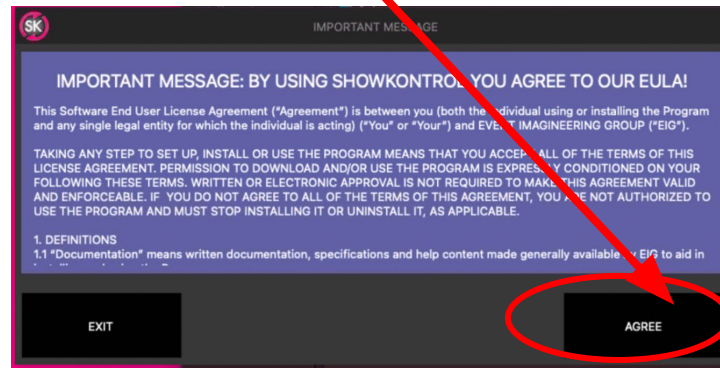
How to start ShowKontrol (DJ view) on ShowKontrol-3 (10.1.3.1)

Step 1: Search for ShowKontrol (SK) app or click on icon in dock

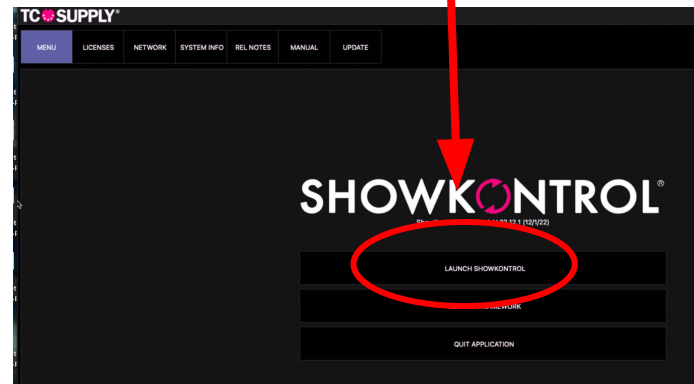


Step 5: Click and start "Max" from dock. Now sit back and watch what the DJ is playing on SK!

Step 2: Click "Agree"



Step 3: Click "Launch ShowKontrol"

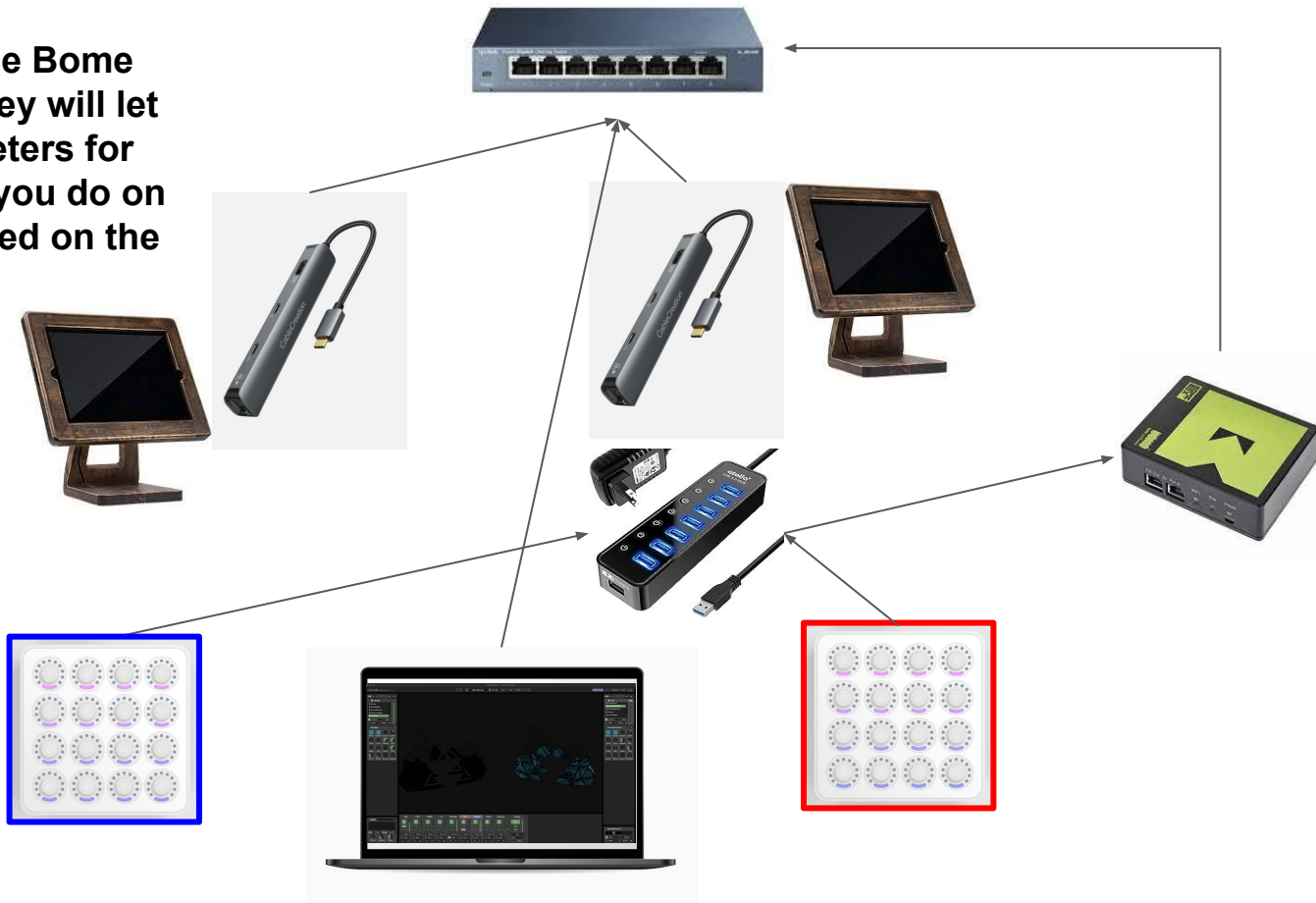


Step 4: Look for decks being connected (if not, you don't have LAN connection to car, fix that)



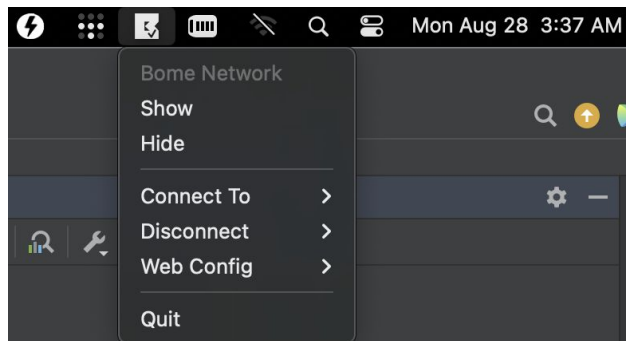
How to connect Midi Twisters

Connect them to the Bome Box's USB hub. They will let you control parameters for patterns and what you do on them will be reflected on the ipads

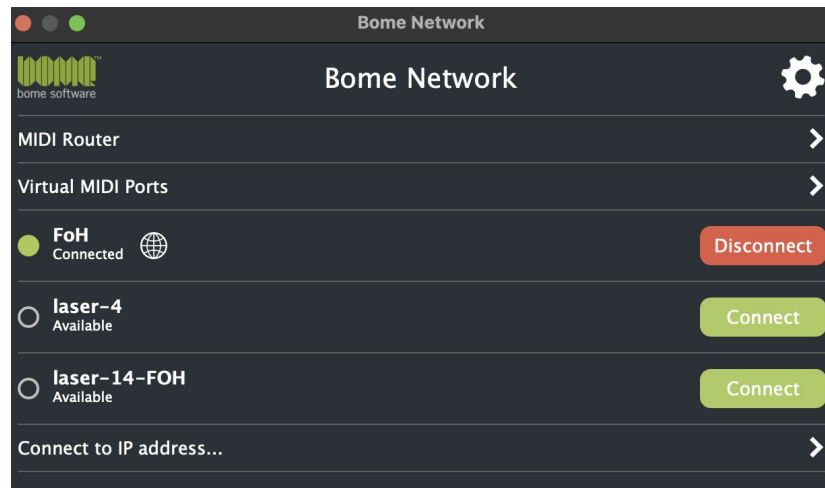


What should the Bome Box setup look like?

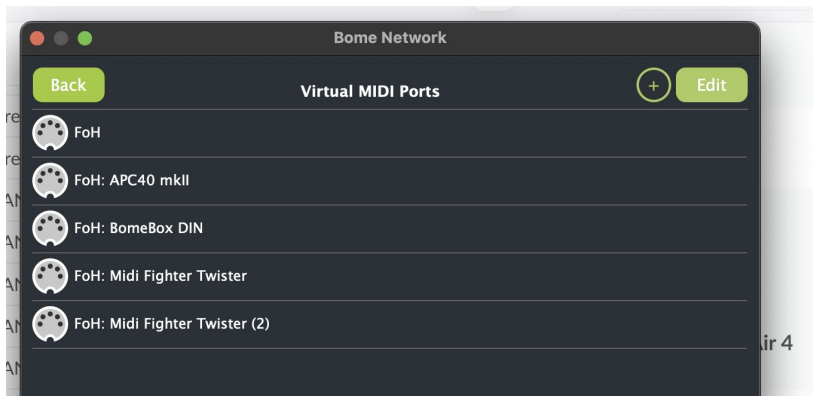
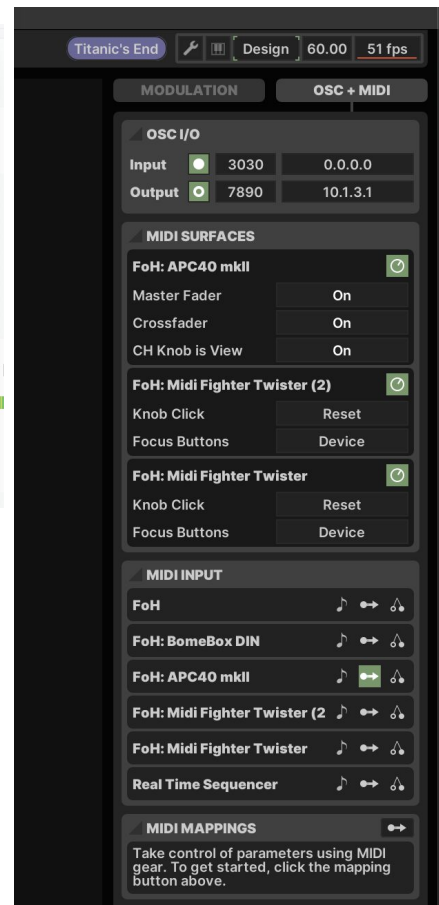
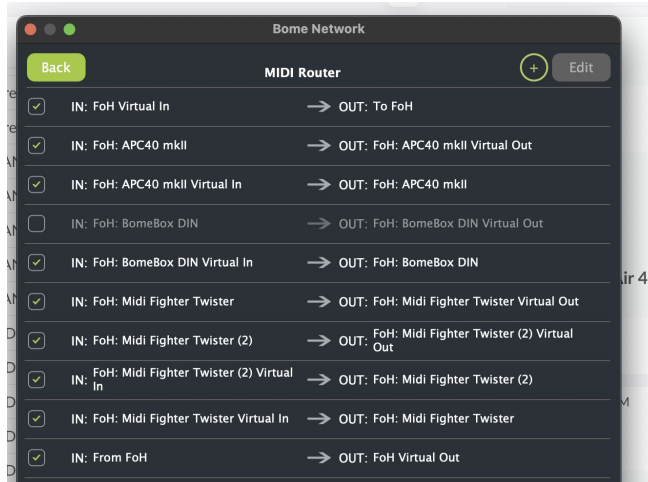
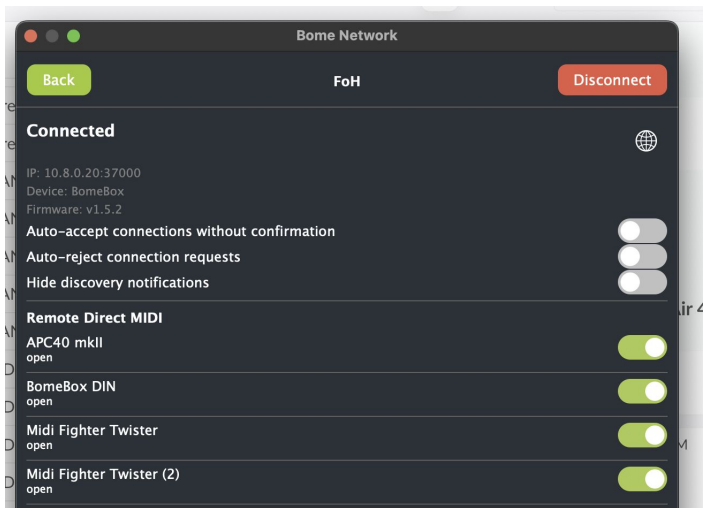
Step 1: Open the app either via the top menu in Mac or Dock



Step 2: You should see this screen. You can click the globe to go to the web admin interface. If it asks for password, just click ENTER, there is no password set.



What should the Bome Box setup look like? (continued)

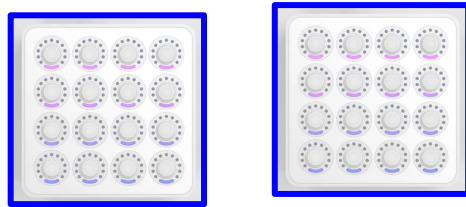


Then, most importantly, you should see this in LX →

Then, when you move the APC or twisters, it should make things happen in LX on Lighting-1!

ONE WEIRD TRICK TO MAKE YOUR TWISTERS WORK

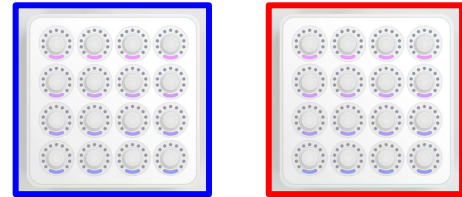
sometimes you might
see two blue twisters
(colored lights)



fix by pressing the top
button the right side of
the midi twister!



this is what you want



How to start Pangolin / lasers

TODO

Troubleshooting

Low-level tools

See https://docs.google.com/document/d/1vUw5XAJEezA1OhZ5tqew1Aw7z3jSoULjc8R_WXtoKGs/edit

Troubleshooting: The car is dark

FLOWCHART

Can you see LX/Chromatik on the FOH laptop screen?

NO LX VISIBLE ON FOH LAPTOP

Does the car have power

Does FOH have power

Is FOH connected to network

Is Lighting-1 running

Is Lighting-1 reachable over network

Is LX/Chromatik running on Lighting-1? OK to restart LX/Chromatik if needed.

YES LX VISIBLE ON FOH LAPTOP

Can you see a pattern running in LX on the screen?

Are the faders down in LX? Master fader should be up and one or more channel faders should be up.

Are the faders down on the APC40? They control LX.

Try a new Channel/Pattern

Are we getting beat information from ShowKontrol? Tempo dot should be flashing at the top.

Troubleshooting: MIDI controller(s) not responding

Turn off/on the Midi Controllers button under LX -> Left Pane -> Model -> Dev Switch

Check physical connections (USB -> Lighting-1 signal path):

MIDI controller -> USB hub -> Bomebox -> Network switch

Click Bomebox application menu on Lighting-1 -> Show

Should say "Connected" next to FoH

All MIDI controllers should be turned on

Bomebox mapping configuration (Click toolbar icon on Lighting-1 -> open webpage -> check mappings)

****If network route is changed between physical wire and dish, power cycle bomebox physical device AND restart Bome Network software on Lighting-1.**

Troubleshooting: Screen share is frozen / I can't connect to the servers on the car

Likely an issue with connectivity to the car's network, TE LAN. Is the dish unplugged?

Did a LAN cable get unplugged?

Check these!

Troubleshooting: ShowKontrol is frozen / BPM is not updating / can't see DJ decks

Potential solution(s):

Quit and restart both ShowKontrol and Max.

If this is too much, just restart (via Screen share) the entire ShowKontrol-3 machine, on reboot it will start ShowKontrol and Max again!

Screen share not working? Likely an issue with connectivity to the car's network, TE LAN. Is the dish unplugged? Did a LAN cable get unplugged? Check these!

Troubleshooting: iPads aren't working to see controls for patterns

Solution: XXXX

1. Make sure LX is running and MIDI controllers working.
2. Make sure the TouchOSC layout is running within the TouchOSC application on the iPad. From iPad home screen, launch TouchOSC application. Then hit play to run the layout if it is not running already.
3. Make sure ShowKontrol-3 isn't frozen. The OSC messages route through it.

Troubleshooting: LEDs are glitchy/low framerate

Solution:

1. Is LX actually running slow? Look at FPS in the top right, it should be ideally near 60 but at least above 30.
2. If LX frame is slow:
 - a. Try different patterns
 - b. Turn off any unused devices under Left Pane -> Model -> Dev Switch.
 - i. Ex: Don't send packets to beacons if they're not on the network!
 - c. Restart LX
3. If LX framerate is fine and LEDs are glitchy, it's a network problem.
 - a. Check for network loops
 - i. Don't connect both hardline and dish to FOH!
 - ii. Don't connect FOH laptops to wifi (they should always be wired to FOH switch)
 - iii. Don't connect two ethernet cables to Bomebox
 - b. If a loop is found and fixed you may need to restart FOH switch for good measure.

Troubleshooting: LEDs don't seem sync'd to the beat?

Solution(s):

- 1) ShowKontrol or Max on ShowKontrol-3 machine (10.1.3.1) might not be running.
- 2) Otherwise, if all else fails, you can just tap the tempo button in LXStudio (Lighting-1 via screen share) 5 times to the beat.

The beat you see will likely be around 118 to 128 beats per minute (BPM) since at burning man, pretty much every plays house all the time.

The green blinking light next to the BPM counter in LX should be beeping on the beat!

Should be on OSC

**BPM should be in range
118 to 128 (roughly)**



Should blink to the beat

To Import: Beacon Playa Setup Instructions from Notion

<https://www.notion.so/titanicsend/Playa-Setup-Instructions-for-Beacon-0b9ea4eef9a44ca09a0602732234172e?pvs=4>

Troubleshooting: *something got messed up in LXstudio, LEDs aren't working, help!*

Easiest Solution:

Restart LXStudio.

Just X out of LX, and then in the Dock hover your mouse on left side of window in Screen Share desktop on 10.1.1.1 (Lighting-1).

Click on "RunTEApplication"

Things should start to work again.