
MARQUEE

LIGHT SHOW STUDIO

User Manual · Version 2.0

Design the show. Export the file. Make your car famous.

OPEN BETA

01 What the Studio is

Marquee Light Show Studio turns your Tesla into an instrument. You choreograph every light on the car to any song you choose, preview it on a moving car model, and export a real, verified Tesla light show file. Drop that file on a USB drive and your car performs it. No coding, no guesswork: if you can drag a box on a timeline, you can build a show.

The Studio is in **open beta**. Report rough edges and ideas through the MARQUEE Patreon; your reports shape every patch.

02 Getting in: the 2.0 way

The Studio now lives on the website. Go to marqueelightshow.com/studio.html, sign in with your Patreon account (Studio is included at \$2.99/month and above, and every Director tier), and press **Launch the Studio**. It runs entirely in your browser.

- **No downloads, no versions.** Every launch runs the newest build. We update it; you get it.
- **Your projects save in your browser** on this device, automatically. Use the Studio's own Save and Open to keep named projects, and export a project file if you want a copy elsewhere.
- **Works offline once loaded**, nothing leaves your machine while you work.
- **Full screen:** use **Open full screen** on the Studio page for a dedicated tab.

Chrome, Edge, or Safari on a laptop or desktop is the best experience. Phones can open it, but choreography wants a real screen.

03 A first show in ten minutes

1. **Load your song.** The waveform lays out the whole track; the playhead follows the music.
2. **Paint light clips.** Drag across any channel (headlights, light bars, turn signals, interior, and more) to create a clip. Stretch it, move it, layer it, stack effects.
3. **Smooth it.** Drag a clip's corner grips for fade in and fade out; overlapping clips crossfade on their own.
4. **Preview.** Press play and watch the car perform it, with a cinematic camera option.
5. **Export.** The Studio verifies your file against Tesla's own format before it hands it to you. What you see is exactly what the car performs.

04 Tools that do the hard part

Templates

Instant choreography: **meteor**, **fire**, **rain**, **police** strobes, and **Morse code** that spells real messages in light (type the text; the Studio times the dots and dashes). Drop one in,

then tweak it like any clip.

Palettes

Restyle an entire show's look in one click with show palettes; clips remap to the new palette without re-editing.

Stretch and share

Select clips and **stretch** them to a new length as a group. Share a selection with another designer as a **share code** (copy, paste, done).

Live capture

Perform a show on the keyboard while the song plays, number keys fire channels, and the Studio records your timing as clips. Great for finding the groove fast.

05 Multi-car productions

Build a **production**: every car gets its own part, and the Studio exports a separate verified file for each. This is how a nine-part song becomes a fleet show. Pair it with Orchestrator's **show packages and roles**: upload each part as that role's file, and every car in the show receives exactly its part, in the right slot, from one button.

Keep song lengths identical across parts; Orchestrator cues every car at the same instant and reads the exact length from your files.

06 Exporting and loading the car

1. **Export** from the Studio. You get the light show file and keep your song's audio alongside it.

2. On a USB drive, create a folder named `LightShow` and put both files inside (same base name, for example `myshow.fseq` and `myshow.wav`). Or let Orchestrator's **Prepare Show Drive** do it for any show you publish.
3. Plug the drive into the car's glovebox USB port. In the car: **Toybox → Light Show**, pick your show.

Use a dedicated show drive (exFAT or FAT32). A drive with a TeslaCam folder is used for dashcam and the car ignores light shows on it.

07 Tesla light show limits

Limit	What it means
Show length and detail	Current Tesla software has no fixed length limit and no command cap; the old 5-minute and 681-command limits from 2021 no longer apply. A show can run the full song and be as busy as you like.
Channels	Only lights Tesla exposes to light shows can be choreographed. The Studio models all of them, per vehicle (Cybertruck, Juniper Model Y, and S3XY are laid out separately).
Audio	The car plays the audio file next to your show file; keep the names matched.

08 When something looks wrong

You see	Do
Car plays the wrong show	Check which file is in LightShow, and in Orchestrator, that your preloaded count was right
No audio in the car	Audio file missing or misnamed next to the .fseq; in Orchestrator, volume is pushed automatically
Export refused	The verifier found a problem; the message names it (a channel the chosen vehicle doesn't have, or a malformed clip)
Project missing	Projects save per browser and device; export a project file to move between machines

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Orchestrator manual, Attendee Guide, and How To videos: marqueelightshow.com/manuals.html

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