

A LaserWall fleet on one network

Several walls, one phone, one shared Wi-Fi network — a router or their own mesh. The basics (installation, colors, audio) live in the one-wall guide.

01 SAFETY

A line, not a dot

An optical scheme engineered by TeslaCoilPro fans every beam into a 60–110° line. Power is spread along its whole length, so beyond ~4 metres from the aperture a wall is eye-safe. With a fleet the rule is the same — but there are several zones.



Every wall has its own near zone

The first 2–3 metres in front of each aperture are hazardous: the line has not fanned out yet. Walk every wall — 4 metres in front of each must be out of the audience's reach.

- Every wall's line is even; a bright dot means damaged optics — that module goes to service.
- Never open the optics; keep concave and focusing surfaces out of every beam.
- Never aim at roads or aircraft.

02 INSTALLATION

Mount all the modules

01

Mount and aim each wall

Same as the one-wall guide: solid mounting, no cable tension, near zones out of reach.

02

Label everything

Name the modules and cables — with three or more walls this saves your evening.

03

First light one at a time

Power and check the walls one by one, standing beside the aperture (a brief blue flash is possible on cold start).

03 MODE

Multiple devices = Wi-Fi

One wall is driven over Bluetooth; a fleet only over Wi-Fi: all walls and the phone on one network.

MODE	FOR	LINK
“Single device”	One wall nearby	Direct Bluetooth
“Multiple devices”	A fleet on one network	Wi-Fi: a router or the field mesh

The mode is chosen at first launch or in Settings → “Operation mode”. This guide needs “Multiple devices”.

04 ADDING

Add every wall to the network

- 01

Devices → “Add Device”

The wizard finds the powered wall over Bluetooth — pick it.
- 02

Enter “WiFi Network (SSID)” and “Password”

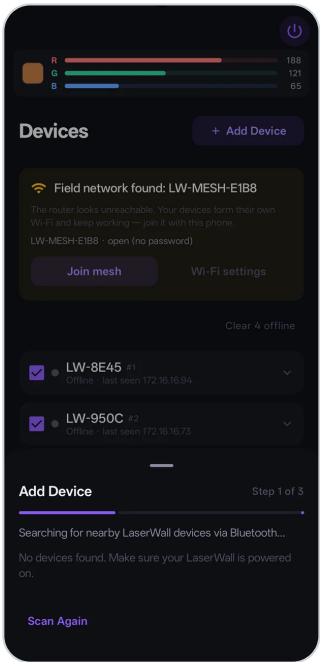
Tap “Connect to WiFi”. The wall stores the credentials and reboots into the network.
- 03

Wait for it to appear

Up to 90 seconds. A timeout does not erase the credentials: check the network and let the wall retry.
- 04

Repeat for every wall

Added walls show up as cards on the Devices tab.



The wizard: Bluetooth scan → Wi-Fi credentials → wall on the network.



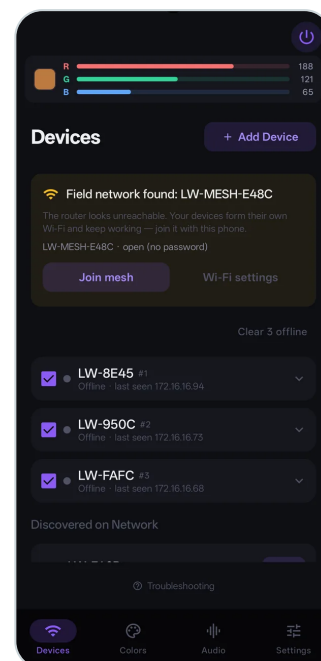
VPN on the phone

A VPN pulls control into its tunnel: walls stay visible in the list but remain “offline”. Turn the VPN off or exclude the app from the tunnel.

05 FLEET

Device cards

- The checkbox on the left — the wall receives group commands. Untick to exclude it temporarily.
- “Rename” — name walls by position (“Left”, “Backdrop”): everything gets easier.
- “Phase” — shifts one wall's effect; use deliberately, for running patterns.
- “Forget Wi-Fi” — wipes the wall's network and returns it to Bluetooth setup.
- “Remove” — deletes the card from the app.
- “Clear N offline” — sweep long-gone walls. The “hub” badge marks the field-network node; it has no signal level.



The checkbox on a card decides whether the wall takes group commands.

06 CONTROL

One command — all walls

Colors and Audio work exactly as in the one-wall guide, but every ticked wall receives the commands at once. Effects run in sync — the fleet shares one phase until you set offsets yourself. “Save to device” writes the look into every ticked wall.

07 FIELD MESH

A network without a router

In the field the walls raise their own open Wi-Fi network, LW-MESH, and keep working together.

01 Allow the mesh

Settings → “Mesh network (field mode)”. Walls will fall back to the mesh whenever the router is unreachable.

02 Or move the fleet now

“Move fleet to field mesh now” — every reachable wall reboots into the field network.

03 Join with the phone

The Devices tab shows a “Field network found” banner with a “Join mesh” button. The phone must be on the LW-MESH network — otherwise there is no control.



Leaving the mesh

“Exit field mesh (back to router)” reboots the walls into the router world. Turning the mesh off asks for confirmation: walls without saved Wi-Fi return to Bluetooth setup.



Phones flee internet-less networks

Android likes to hop from LW-MESH back to a network with internet. If control vanishes — first check which Wi-Fi network the phone is on.

08 FIRMWARE

Updating the fleet

Updates go over Wi-Fi from each wall's card (“Firmware” → the update button). Update one wall at a time and don't cut power. USB recovery is a service measure: it wipes the network, mesh and name — the wall needs setting up again.

09 TROUBLESHOOTING

If it doesn't work

SYMPTOM	WHAT TO DO
All walls offline	The phone is on the wrong Wi-Fi. Put it back on the fleet's network (router or LW-MESH).
Visible but “offline”	A VPN on the phone. Turn it off or exclude the app from the tunnel.
Wall missing after adding	Wait up to 90 seconds; check SSID, password and signal; rerun the wizard.
Some walls don't react	Check the card checkboxes and the weak walls' signal levels.
The mesh “vanished”	Walls reassemble the network after a reboot. Wait for the banner and rejoin with the phone.

10 BEFORE THE SHOW

Checklist

- ✓ Every wall's near zone is out of the audience's reach.
- ✓ The phone is on the fleet's network; every needed wall has a card and a tick.
- ✓ "Static" verified on all walls at once.
- ✓ The group effect or audio rehearsed at show volume.
- ✓ After the show: "Stop" in Audio, output killed, power off.