Pretty Lights After Party, Fluid510: speaker placement

Public v11, 2026-11-20. DJ on the bar (west) side, two stacks in front of the stage firing east, a spacer under each DS210 top, one dance zone. Interactive 3D: model.html. PDF: guide.pdf. Cabling plan: cabling-plan.pdf. All files.

ESTIMATES: the space is 25 x 20 ft. Tech booth (about 4.8 x 3.9 ft, north-west corner), 5.6 ft stage and 6 x 2.5 ft DJ table are scaled or assumed. ASSUMPTION: the house rack and amps are in the tech booth and stay there (not confirmed). Ceiling about 21 ft (not checked). Measure at load-in.

TL;DR

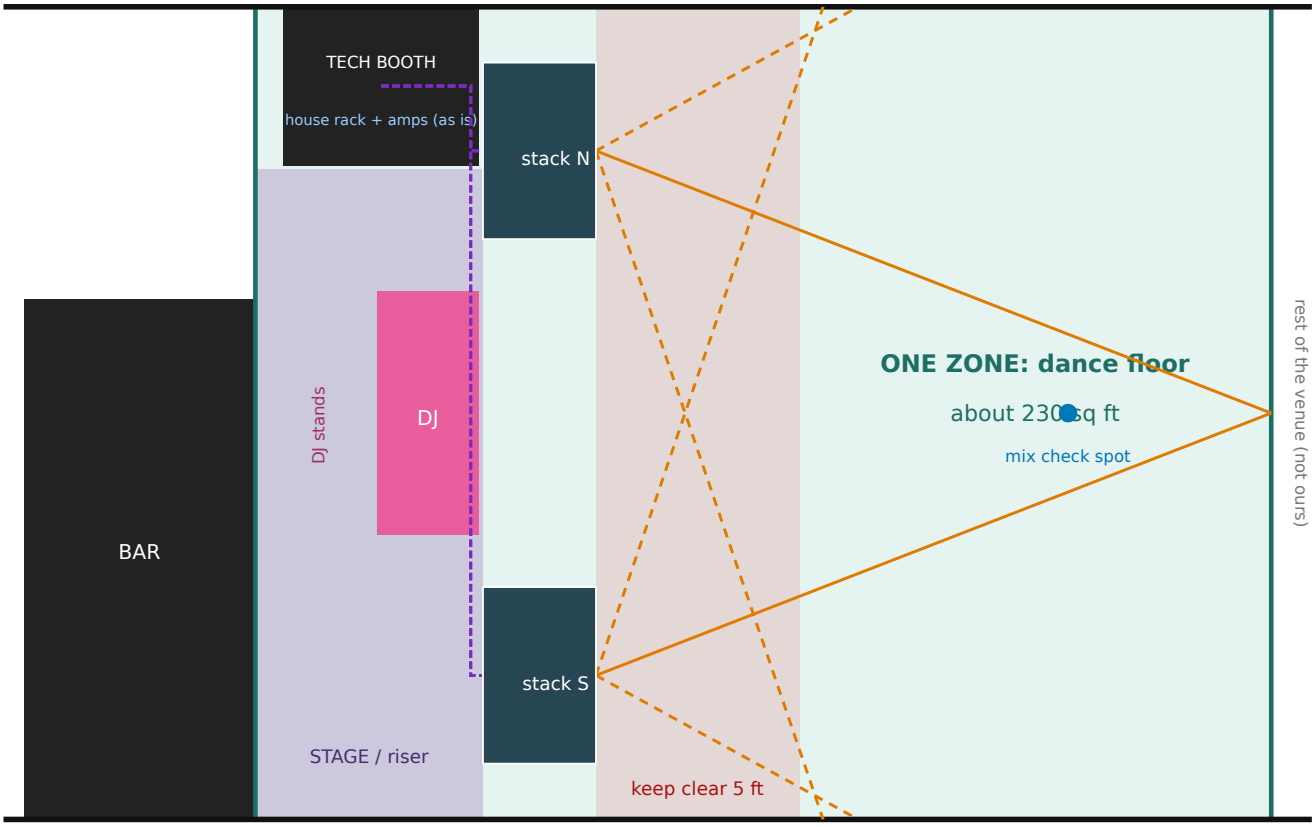
- **From the bar side (west):** stage + DJ facing east, then two stacks on the floor (each 2 IB218 + F315 + spacer + DS210), all firing east.
- **Spacer under each DS210** (between F315 and DS210): **ASSUMED** 4 in (10 cm) block, full DS210 footprint; real size not known yet. DS210 centre 6.0 ft, aimed 2.0 deg down.
- **Stack 7.1 ft, about 330 kg: strap each stack** (tips at 21 deg, about 55 kgf push at the top), castors off, non-slip spacer.
- **One zone:** everything from 5 ft in front of the stacks to the east edge is dance floor, about **230 sq ft**.
- **House rack and amps stay where they are** (tech booth, assumed). Runs: north stack 3x 5 m NL4, south stack 3x 10 m NL4, 2x 2 m IB jumpers, 4x 10 m XLR.
- **Subs to F315 crossover around 60 Hz**, set in the processor; no box moves. Check it at soundcheck (below).

Notes for the sound engineer

- **60 Hz is low for the F315.** Maker figures: F315 usable 60-250 Hz at -3 dB, crossover band 85-220/250 Hz; IB218 usable 25-80 Hz. Expect a soft spot around 60-85 Hz; if the kick sounds thin, try 80 Hz.
- **Time alignment:** fronts are flush, so the geometry difference is tiny: the F315 arrives 0.4 ms before the IBs at the mix spot (1.0 ms at the front of the floor). Check polarity and delay at the mix spot with a measurement mic.
- **House rack not confirmed.** If it is somewhere else, the cable lengths change.
- The stage covers the front of the left bar (y 0-12.8 ft). FOH in the booth hears the rig from the side: check the mix on the floor.

Plan and side view

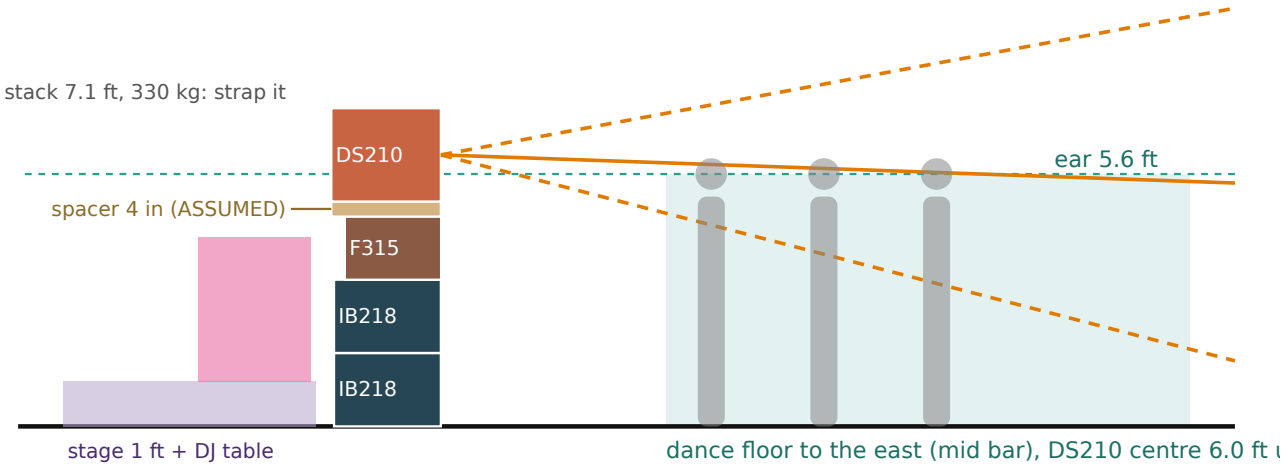
Plan v11: DJ on the left (bar side), stacks fire east, one zone



our space: 25 x 20 ft. Stage, booth and DJ table sizes are estimates. Purple = NL4 runs; orange = DS210 aim + coverage edge

Side view v11, north stack: 2 IB218 + F315 + spacer (4 in, ASSUMED) +

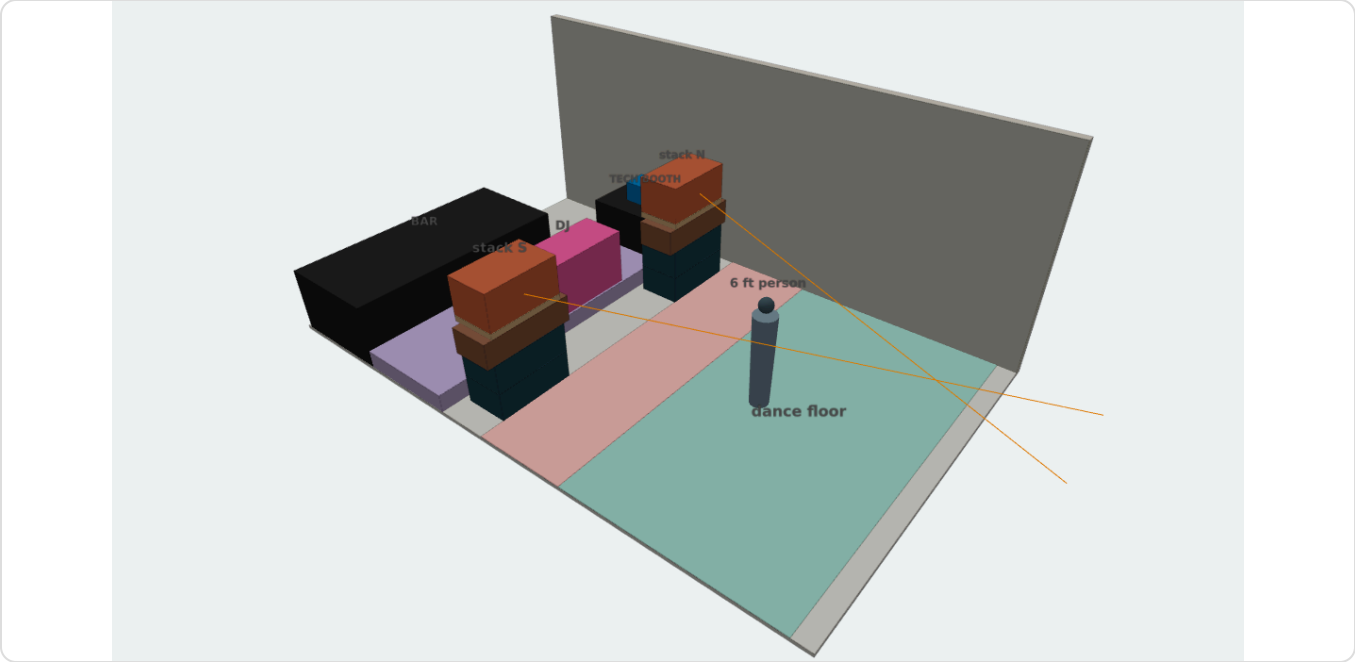
ceiling about 21 ft (not checked), above this view



- Stage / DJ riser: x 0-5.6 ft along the bar side, south of the booth. The DJ faces east.
- Spacer: 4 in (assumed) between F315 and DS210, fronts flush.

- Stack N: 1-6.1 ft from the north wall, next to the booth. Stack S: 13.9-19 ft. Box backs at the stage edge, fronts flush at 8.4 ft.
- DS210: centre 6.0 ft up (just above head height), aimed 2.0 deg down, toed in 21 deg. 100% of the floor is in both beams.

3D view



Speakers drawn as plain boxes at true outer size. Interactive: model.html.

Cable runs from the house rack

Rack in the tech booth (assumed). Route: out of the booth's south side, along the stage front edge behind the stacks (taped), into the back of each box. Needed = path + 2 m for drops and slack + 15%.

Run	Type	Needed	Take	Note
IB pair N	NL4	3.7 m	**5 m**	home run to the bottom IB, 4-core jumper to the one above
F315 N	NL4	4.0 m	**5 m**	
DS210 N	NL4	3.9 m	**5 m**	one NL4: mid on 1+/1-, HF on 2+/2-
IB pair S	NL4	8.3 m	**10 m**	home run to the bottom IB, 4-core jumper to the one above
F315 S	NL4	8.5 m	**10 m**	
DS210 S	NL4	8.4 m	**10 m**	one NL4: mid on 1+/1-, HF on 2+/2-
DJM-A9 Master 1 L/R -> WING Rack ch 1/2	XLR x2	6.3 m	**10 m**	DJ feed (only the monitors come from the S32)
S32 -> booth monitors (K12.2)	XLR x2	6.3 m	**10 m**	monitors on the DJ table ends
AES-50 console to stage box	Cat5e	1-3 m	**short patch**	both in the booth

Total: 3x 5 m + 3x 10 m NL4 (+2 spare), 2x 2 m IB jumpers, 4x 10 m XLR. Each IB pair is 2 ohm on one amp channel; loss on 10 m of 4 mm2 about 0.4 dB.

Details