Downloading and Using d&b audiotechnik ArrayCalc V11

- 1. Follow this link: https://www.dbaudio.com/global/en/products/software/arraycalc/
- 2. Scroll down and click the "Downloads" tab

	Overview	Technical data	Downloads	Tutorial	s Appl	ications		
Title ‡		Category \$	F	ile type 🗧	Size ÷	Language 🌣	Release ÷	
ArrayCalc 11.6.0 Mac		ArrayCalc si software	mulation [DMG	236 MB	n/a	10.04.2024	e,
ArrayCalc 11.6.0 Win		ArrayCalc si software	mulation Z	ZIP	153 MB	n/a	10.04.2024	Q

- 3. Select the download for **ArrayCalc 11.6.0** Win or Mac.
- 4. You will have **to create a My d&b account** to download it. Hit sign up and fill out the info, putting your use as **persona**l. For state put MA or your home state, doesn't matter.

	To download ArrayCald account.	please sign in to your My d&b	
	Log in to My d&b	No My d&b member?	
	sign in	sign up	
	Welcome to My d&b. Cr	eate an account.	
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	I would like to subscribe to the	ArrayCalc newsletter	

I would like to subscribe to the ArrayCalc newsletter
✓ I have read and accept the End User License Agreement . *
Fields marked with * are mandatory.
Download now

6. Follow setup wizard instructions.

- 7. Download the example ArrayCalc file (will be in the #general discord).
- 8. On the left, hit Open and click the ArrayCalc file.
 - a. I suggest changing the units from metric to imperial (Settings > Units > Imperial(ft/lbs)).
- 9. Under System view, begin by going to 3d plot.
 - a. In the bottom right corner, there is an SPL calculator. Hit Autocalculate and see what the current reading looks like.
- 10. Angling the PA:
 - a. Go to the Sources Tab

Sources	x +	Load: Load OK within DGUV-17 limits 63% of load limit
🔕 Main	🔵 AP 🔵 GR 🛒 🗶	Total weight (incl. hardware): 1250 lbs Single pick pt. hole no: 12.5
A Outfill	🔿 AP 🔿 GR 🛒 🗶	Height of lowest edge: 22.80 ft Single pick pt. hole pos: 0.8 ft
P Frontfill		
S SUB array		Main (L): Array profile view
▼ Main	x [-4.911 -3.311 -1.611 0.011 1.611 3.311
System: V-Series	Mounting: flown	39ft
No. of cabinets:	16 Amplifier: D80 🗸	
Position x: 0.00 ft -	+ Position y: 29.53 tt - +	
Frame height front (z): 39.37 ft -	• + Hor. aiming: 0.00 • - +	
Frame angle: -0.50 ° -	+ Delay (abs.): 6.2 ms - +	36ft
ArrayProcessing ArrayProce	essing 🗡 AP slot: -	
TOPS CUT CPL:	-1 - + Level (rel,) - +	
Cabinets		
Relative	-+	33ft
GR Link Speaker	Setup Level dB HFC Splay Abs.	
V Flying frame	0.0 * -0.5 *	
1 Vi8 🗸	Arc V 0.0 - V 0.0* V -0.5*	
2 🔿 🕼 Vi8 🗸	Arc V 0.0 - V 0.0* V -0.5*	30ft
3 🔿 🔊 Vi8 🗸	Arc 🗸 0.0 🗸 0.0 * 🗸 -0.5 *	
4) Ø Vi8 🗸	Arc V 0.0 V 0.0 * V -0.5 *	
5 (ø Vi8 🗸	Arc V 0.0 - V 0.0 ° V -0.5 °	
6 Ø Vi8 V	Arc 🗸 0.0 🗸 0.0 ° 🗸 -0.5 °	26ft
7 0 Ø Vi8 🗸	Arc 🗸 0.0 🗸 0.0° 🗸 -0.5°	
8 0 v i8 v	Arc V 0.0 - V 0.0° V -0.5°	
9 o Vi8 V	Arc v 0.0 - v 0.0 · v -0.5 ·	
10 or Vi8 V	Arc V 0.0 - V 0.0 * V -0.5*	23ft
	Arc 0.0 - 0.0 · 0.0 · 0.5 ·	Center of gravity Pick points
	Arc 0.0 - 0.0 - 0.0 - 0.5	Rear pick Front pick
	Arc 0.0 - 0.0 - 0.5	Load: 148 lbs Load: 1102 lbs
	Arc 0.0 - 0.0° -0.5°	Pick pt. hole: 39.5 Pick pt. hole: 9 Pick pt.
	Arc V 0.0 V 0.0 V -0.5*	

- b. Select "Main"
 - i. Notice all the angles are at 0. The top angle will stay at 0 due to rigging. You can change the angle between each box individually.
- c. Your goal is to change the angles so that you are getting somewhat even spread across the venue from the front of GA to the upper balcony. You can go back to 3d plot and hit recalculate to see the differences in overall SPL.
 - i. You can also change the **frame angle** which will change the aim of the whole array. *If you have ever been to a stadium concert, think back to how the speaker arrays were curved and try to mimic that.*
 - ii. In addition, in the bottom right corner there is a sound level over distance graph. Try to keep the curve as flat as possible, ~3dB loss per distance doubling.