

BEAW®



EAW

Eastern Acoustic Works

Головной офис в
Franklin, Massachusetts,
USA

- Производство
- Сервисный центр
- Инженерные и лабораторные помещения
- Учебные и демонстрационные комнаты
- Склад



EASTERN ACOUSTIC WORKS
ANNOUNCES A NEW CONCEPT
IN PORTABLE SOUND REINFORCEMENT

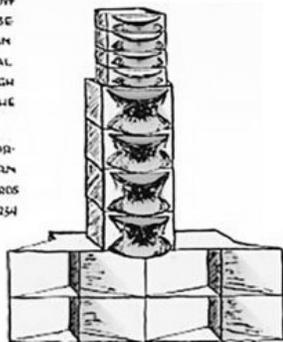
THE CT SYSTEM

PREMIERING AT THE NEW YORK
A.E.S. CONVENTION

THE CT SYSTEM IS A COMPLETE, PACKAGED SPEAKER SYSTEM THAT OFFERS SUPERIOR PROJECTION, SOUND QUALITY, DEFINITION, PORTABILITY AND STRUCTURAL RIGIDITY. THE COMPONENTS OF THE CT SYSTEM ARE INDIVIDUALLY PACKAGED ALLOWING THEM TO WITHSTAND THE RIGORS OF ON THE ROAD ABUSE FOR YEARS. WHEN STACKED IN A VERTICAL ARRAY THEY CAN BE FLOWN AS ONE PIECE AND MAINTAIN TOTAL STRUCTURAL INTEGRITY. THIS PRECISION VERTICAL ARRAY FEATURES HIGH ACOUSTIC OUTPUT AND LOW DISTORTION THROUGHOUT THE ENTIRE AUDIO BANDWIDTH.

EACH COMPONENT OF THE CT SYSTEM IS CAREFULLY TAILORED FOR ITS SPECIFIC APPLICATION, OF WHICH THE EASTERN ACOUSTIC WORKS' MODEL MR-109 MID BASS HORN AFFORDS A GOOD EXAMPLE. THE MR-109 CONTAINS ONE ATC PA-7525H DRIVE UNIT WHICH IS MOUNTED ON A LEAD BEAM FORCED FIBERGLASS HORN FLAIR, MACHINED INTO THE DRIVE UNIT IS A PHASING PLUG TO MINIMIZE CANCELLATION AT HIGHER FREQUENCIES. THE BALTIC BIRCH SEALED COMPRESSION CHAMBER/ENCLOSURE PROVIDES THE ULTIMATE IN ROADIE PROTECTION.

THE COMPLETE EASTERN ACOUSTIC WORKS' CT SYSTEM WILL SOON BE AVAILABLE FROM A SMALL GROUP OF DEDICATED DEALERS THROUGHOUT THE UNITED STATES.



QUANTUM AUDIO
200 PARK AVENUE SOUTH
NEW YORK, CITY, NY 10003
(212) 200-2500

WASH SOUND
115 B STREET
SACRAMENTO, CA 95814
(916) 444-5491

DIAMENSION 5
100 NORTH 17TH STREET
PHILADELPHIA, PA 19103
(215) 588-1545

FRED LOCKE PRO AUDIO
87 WOODLAWN ROAD
BRITAIN, CT 06037
(203) 828-1124

E.U. CO. PRO
300 NEWBURY STREET
BOSTON, MA 02110
(617) 261-8144

24 NORTH 3RD STREET
WOMELDON, PA 19387

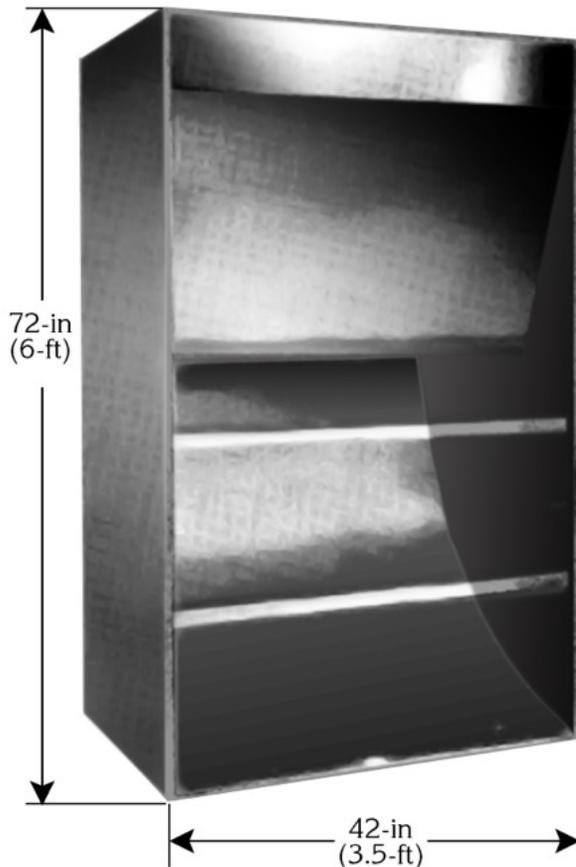
3010 GENESEE
445 BRYANT STREET
SAN FRANCISCO, CA 94110
(415) 285-8000

 eastern acoustic works inc
who else would you trust

59 fountain street, framingham, ma 01701 see us in suite 1270 at the a.e.s. convention

DB November 1978

BH-880-LR
Subwoofer Bent Bass Horn



ЕАW лого:

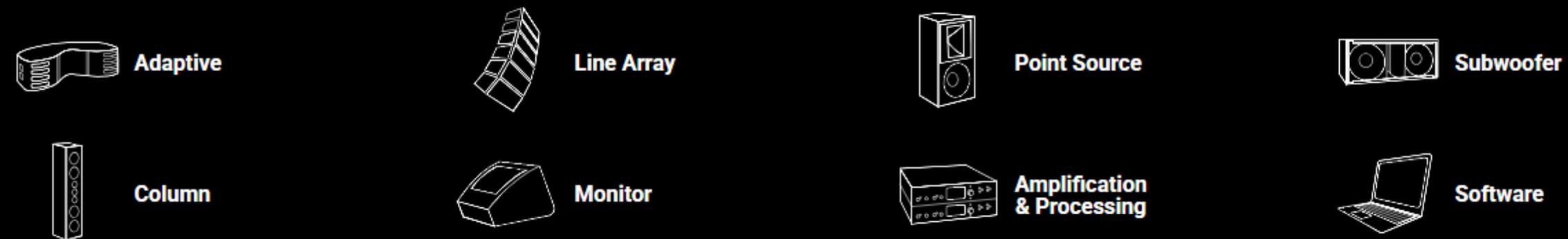
Сложенный
рупор



BY SERIES

PROFESSIONAL		ENGINEERED		PORTABLE			
ADAPTive NT Series KF Series		QX Series MKD Series MK Series MKC Series		RSX Series RS Series LA Series			
SUBWOOFERS		MONITORS		AMPS/PROCESSORS		UTILITY	
SB Series SBX Series		MW Series SM Series VF Series		UXA/UX Series		CIS Series LS Series	

BY TYPE



ADAPTive™ systems



 Dante™



3-WAY FULL-RANGE Array module

See NOTES TABULAR DATA for details

Configuration

Subsystem	Transducer	Loading
	LF 2x 15-in cone, 4 in voice coil	Vented, Phase Aligned™, Offset Aperture™ loading
	MF 6x 5-in cone, 38mm voice coil	Horn-loaded w/ Radial Phase Plug™ and CSA™ apertures
	HF 14x1-in exit, 35mm voice coil	Horn-loaded compression driver
Operating Mode	Amplifier Channels	Signal Processing
	2x LF	DSP w/ EAW Focusing™ and Adaptive Performance™
	6x MF	DSP w/ EAW Focusing™ and Adaptive Performance™
	14x HF	DSP w/ EAW Focusing™ and Adaptive Performance™

Performance

Operating Range	35 Hz to 18 kHz	
Nominal Beamwidth	Horz	70° (for single column; scalable up to 360° utilizing multiple columns)
	Vert	Adaptive

Calculated Axial Output Limit (whole space SPL - 6dB Crest Factor) Unadapted

	Average	Peak
LF	131 dB	137 dB
MF	136 dB	142 dB
HF	140 dB	146 dB

Calculated Axial Output Limit (whole space SPL - 6dB Crest Factor) Adapted for 45° Vertical Pattern

	Average	Peak
LF	131 dB	137 dB
MF	136 dB	142 dB
HF	137 dB	143 dB

Calculated Axial Output Limit (whole space SPL - 6dB Crest Factor) Adapted for 90° Vertical Pattern

	Average	Peak
LF	131 dB	137 dB
MF	135 dB	141 dB
HF	132 dB	138 dB

Max SPL (whole space SPL - 12dB Crest Factor) 152 dB



ADAPTive™ systems



Electrical Performance

Input	
Type	Electronically Balanced
Max Input Level	25 dBu
Impedance	20 kOhm (balanced)
Wiring	XLRf, Pin 1 chassis, pin 2 +, pin 3 - Separate loop-thru XLRM (for analog signal only)

Input Selection	Analog, AES (Ch 1/2), Dante
------------------------	-----------------------------

Amplifiers & Processing	LF	MF	HF
Type	Modified Class D	Modified Class D	Modified Class D
Maximum Output	2x 1,700W	6x 350W	14x 350W
Driver Protection	Integral DSP limiting	Integral DSP limiting	Integral DSP limiting

AC Mains (Nominal)	
Connector	Neutrik® powerCON™ TRUE1™
Input	100 V to 240 V
Frequency	50 Hz to 60 Hz
Power Consumption	Idle 250 W Peak Draw 1,600 W

Control/Communications

Connections	USB A & B, 2x Neutrik® etherCON™
Protocols	USB, Ethernet/Dante
Software	Resolution™ 2 (available at eaw.com)
Indicators	Test, Function, Input (Network, Analog, AES/EBU), Network Status
User Controls	Test, Function



ADAPTive™
systems



Dual 18-inch Adaptive Subwoofer

See NOTES TABULAR DATA for details

Configuration

Subsystem	Transducer 2x VLF 18 in cone, 4 in voice coil	Loading Offset Aperture™, vented
Operating Mode Dual-amp	Amplifier Channels 2x VLF	Internal Signal Processing DSP /w Adaptive Performance™

Performance

Operating Range	22 Hz to 160 Hz	
Nominal Beamwidth	Horizontal	Adaptive
	Vertical	Adaptive

Calculated Output Limit (SPL) Unadapted

	Average	Peak
LF1/LF2 (whole space)	130 dB	136 dB
(half space)	136 dB	142 dB

Calculated Output Limit (SPL) Maximum SPL

	Average	Peak
(whole space)	131 dB	137 dB
(half space)	137 dB	143 dB

Calculated Output Limit (SPL) Maximum Rejection

	Average	Peak
(whole space)	127 dB	133 dB
(half space)	133 dB	139 dB



ADAPTive™ systems

Otto Module Specifications



Electrical Performance

Input	
Type	Electronically Balanced
Max Input Level	25dBu
Impedance	20 kOhm (balanced)
Wiring	XLRf, Pin 1 chassis, pin 2 +, pin 3 - Separate loop-thru XLRM (for analog signal only)
Input Selection	Analog, AES (Ch 1/2), Dante

Amplifiers & Processing

Type	VLF
Maximum Output	Modified Class D
Driver Protection	2x 1,700W
	Integral DSP limiting

AC Mains (Nominal)

Connector	Neutrik® powerCON™ TRUE1™
Input	100V to 240V
Frequency	50 Hz to 60 Hz

Power Consumption

Idle	200W
Peak Draw	1000W

Control/Communications

Connections	USB A & B, 2x Neutrik® etherCON™
Protocols	USB, Ethernet/Dante
Software	Resolution™ 2 (available at eaw.com)
Indicators	Test, Function, Input (Network, Analog, AES/EBU), Network Status
User Controls	Test, Function



ADAPTive™ systems



3-WAY FULL-RANGE Array module

See NOTES TABULAR DATA for details

Configuration

Subsystem	Transducer	Loading
	LF 2x 10-in cone, 3 in voice coil	Vented, Phase Aligned™, Offset Aperture™ loading
	MF 4x 5-in cone, 38mm voice coil	Horn-loaded w/ Radial Phase Plug™ and CSA™ apertures
	HF 8x1-in exit, 35mm voice coil	Horn-loaded compression driver
Operating Mode	Amplifier Channels	Signal Processing
	2x LF	DSP w/ EAW Focusing™ and Adaptive Performance™
	4x MF	DSP w/ EAW Focusing™ and Adaptive Performance™
	8x HF	DSP w/ EAW Focusing™ and Adaptive Performance™

Performance

Operating Range	45 Hz to 18 kHz	
Nominal Beamwidth	Horz	100° (for single column; scalable up to 360° utilizing multiple columns)
	Vert	Adaptive

Calculated Axial Output Limit (whole space SPL - 6dB Crest Factor) Unadapted

	Average	Peak
LF	124 dB	130 dB
MF	130 dB	136 dB
HF	135 dB	141 dB

Calculated Axial Output Limit (whole space SPL - 6dB Crest Factor) Adapted for 45° Vertical Pattern

	Average	Peak
LF	124 dB	130 dB
MF	130 dB	136 dB
HF	132 dB	138 dB

Calculated Axial Output Limit (whole space SPL - 6dB Crest Factor) Adapted for 90° Vertical Pattern

	Average	Peak
LF	124 dB	130 dB
MF	130 dB	136 dB
HF	129 dB	135 dB

Max SPL (whole space SPL 12dB Crest Factor) 147 dB



ADAPTive™ systems



Electrical Performance

Input

Type	Electronically Balanced
Max Input Level	25 dBu
Impedance	20 kOhm (balanced)
Wiring	XLRf, Pin 1 chassis, pin 2 +, pin 3 - Separate loop-thru XLRM (for analog signal only)
Input Selection	Analog, AES (Ch 1/2), Dante

Amplifiers & Processing

	<i>LF</i>	<i>MF</i>	<i>HF</i>
Type	Class D	Class D	Class D
Maximum Output	2 x 1000W	4 x 500W	8 x 500W
Driver Protection	Integral DSP limiting	Integral DSP limiting	Integral DSP limiting

AC Mains (Nominal)

Connector	Neutrik® powerCON™ TRUE1™	
Input	100 V to 240 V	
Frequency	50 Hz to 60 Hz	
Power Consumption	Idle	120 W
	Peak Draw	1,600 W

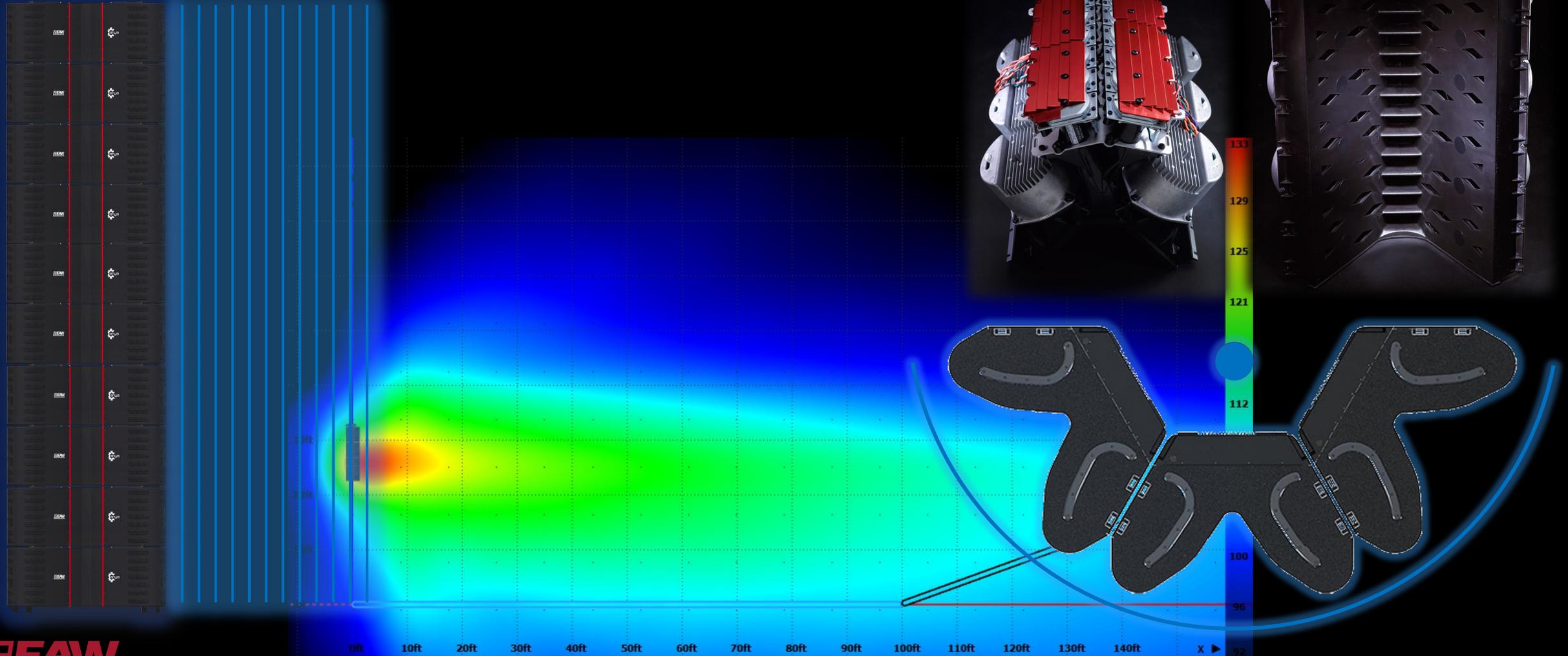
Control/Communications

Connections	USB A & B, 2x Neutrik® etherCON™
Protocols	USB, Ethernet/Dante
Software	Resolution™ 2 (available at eaw.com)
Indicators	Test, Function, Input (Network, Analog, AES/EBU), Network Status
User Controls	Test, Function



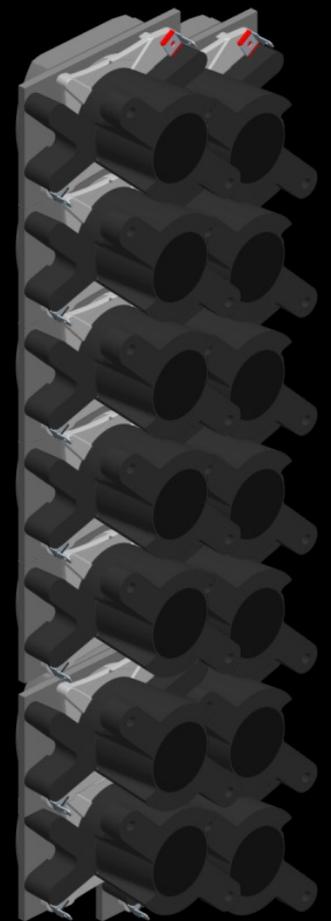
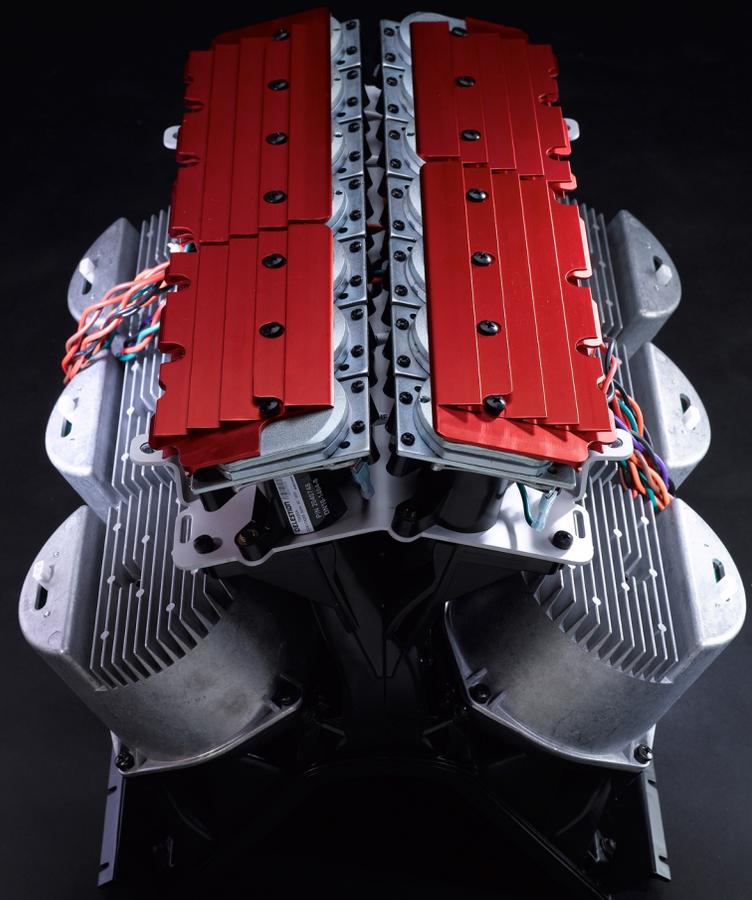
ADAPTive™ systems

ADAPTive™ systems



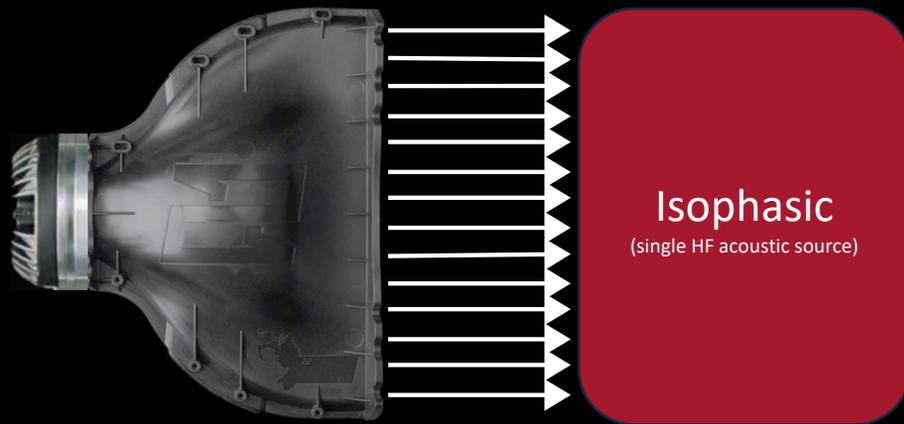


Один
дюйм

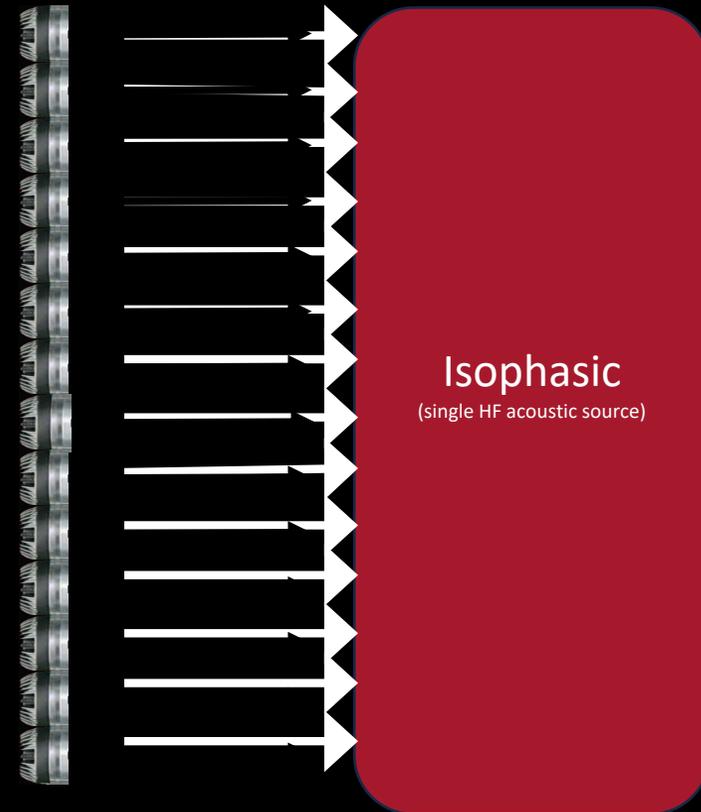




Адаптивные технологии



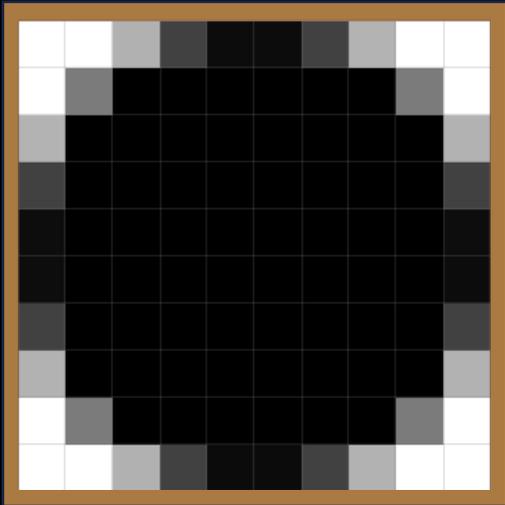
ВЧ модуль одного элемента линейного массива KF (один драйвер)



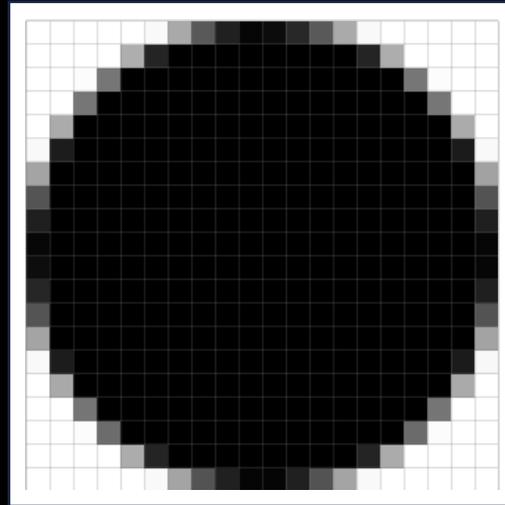
ВЧ модуль одного элемента Ануа (14 драйверов)



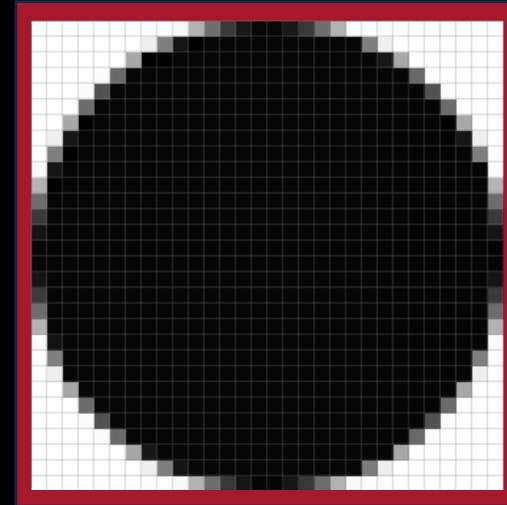
Эффект артикуляции от Адаптивных систем



Механическая
Артикуляция



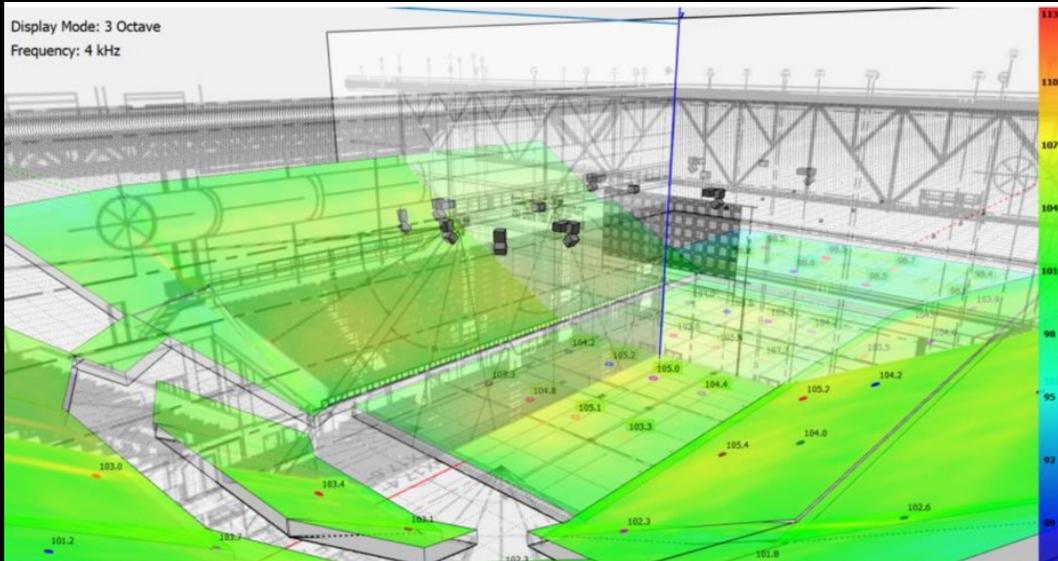
Артикуляция с DSP



Адаптивная
артикуляция



RESOLUTION™



UXA4403D: Amplifier

Main	Input	Zone	Output	Settings
1 Output 1				
-60 -50 -40 -30 -20 -10 3				
M -30 -24 -18 -12 -6 0 6 15 0.0 dB				
Speaker Preset MKD1026 BI EAWF Rev A HF				
Routing Zone A				
Equalizer Enable Show Polarity +				
Delay 0.00ms ms				
0.00 ms 0 samples 0.00 feet 0.00 meters				
2 Output 2				
-60 -50 -40 -30 -20 -10 3				
M -30 -24 -18 -12 -6 0 6 15 0.0 dB				
Speaker Preset MKD1026 BI EAWF Rev A HF				
Routing Zone B				
Equalizer Enable Show Polarity +				
Delay 0.00ms ms				
0.00 ms 0 samples 0.00 feet 0.00 meters				
3+4 Output 3				
-60 -50 -40 -30 -20 -10 3				
M -30 -24 -18 -12 -6 0 6 15 0.0 dB				
Speaker Preset SB250z SINGL Rev B bridge				
Routing Zone C				
Equalizer Enable Show Polarity +				
Delay 0.00ms ms				
0.00 ms 0 samples 0.00 feet 0.00 meters				

Array Assistant

Array Settings

Array Name:

Speakers Available

Flown Ground Stack

Type A: SBX118F 2
WHITE

Type B: AC6 0
GREY Voicing Rev A

Use exact quantity

Flybars

Flybar Hang Style

Type A: None Ground Stack

Type B: None Ground Stack
Ground Stack (180)

Array Location

X: 0.00ft Y: 0.00ft

Aim Direction: 0.00°

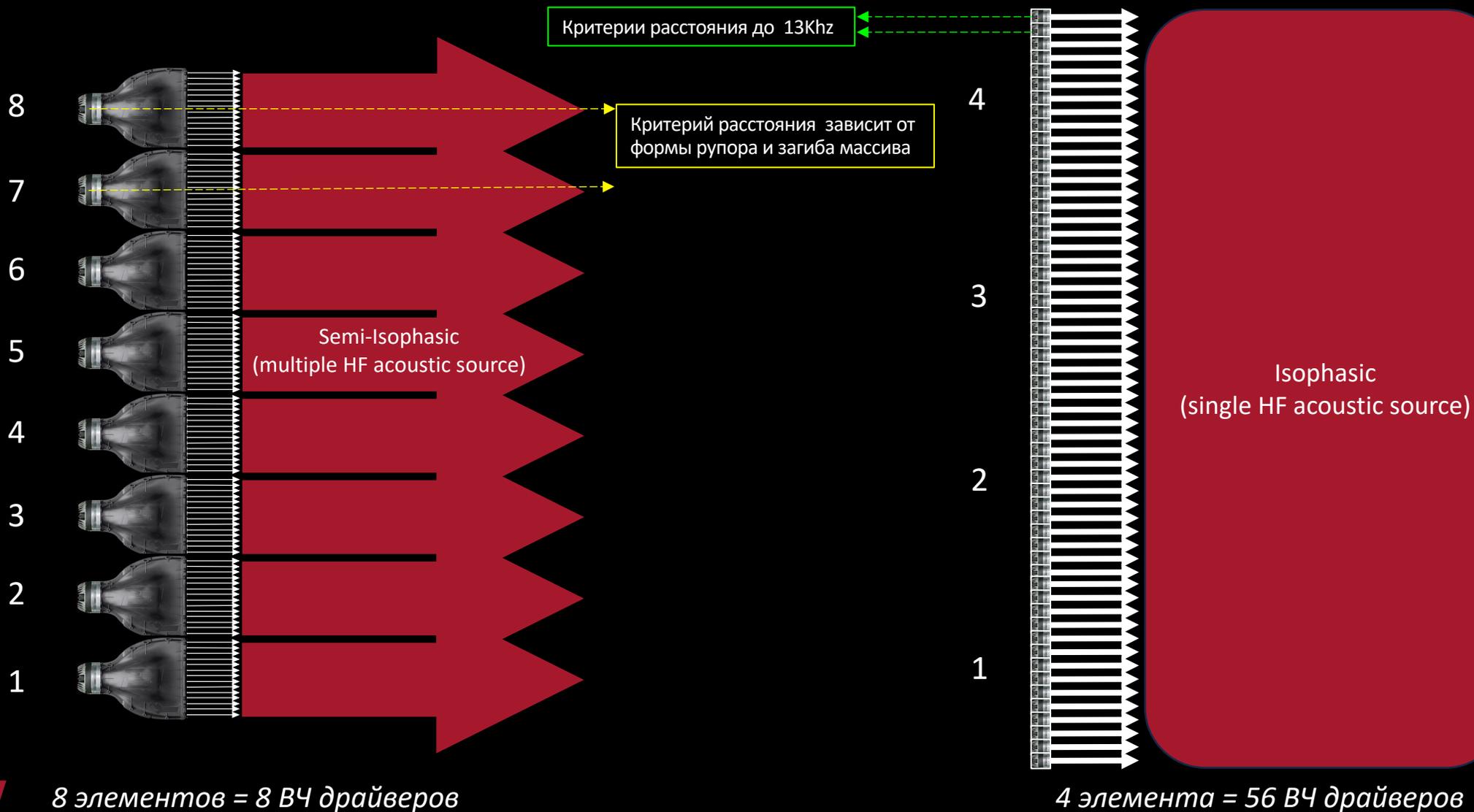
Space Restriction:

Surface Height: 0.00ft

< Back Finish Cancel

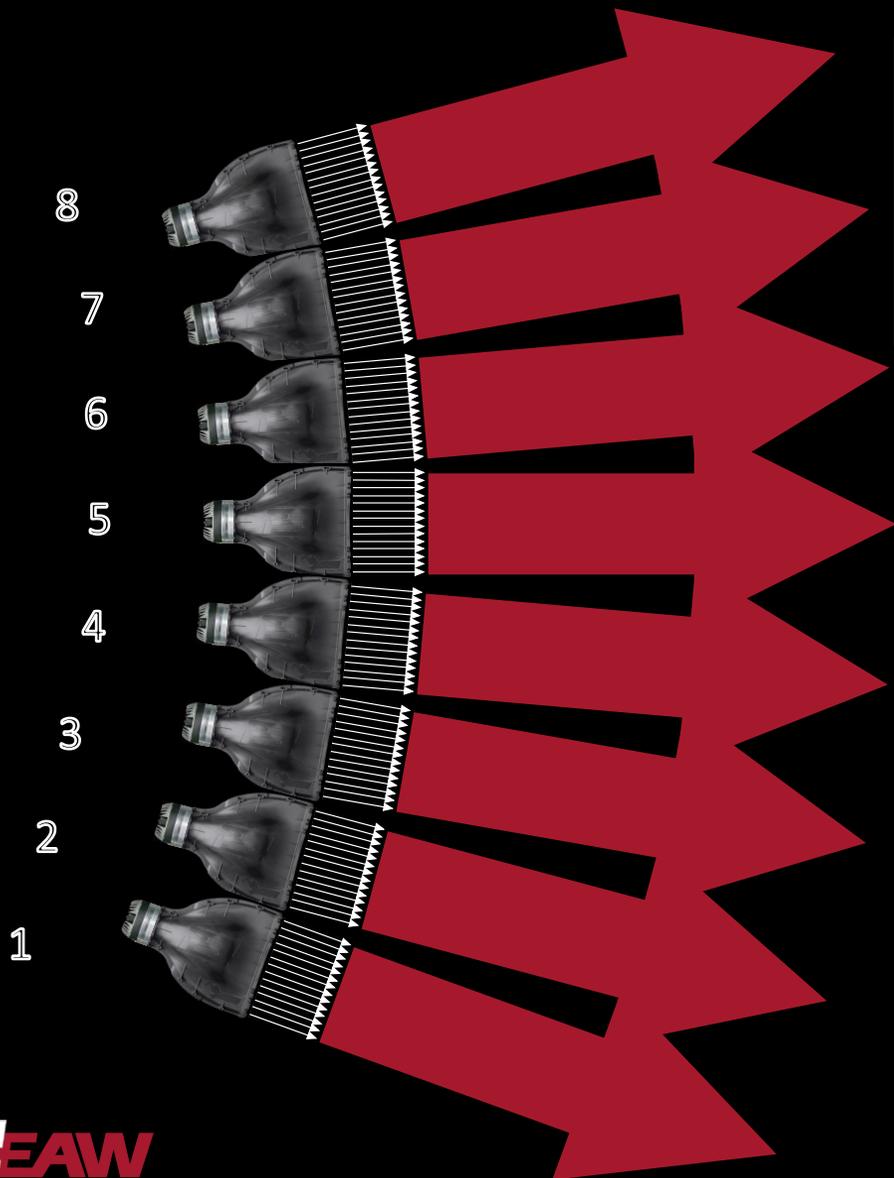


Адаптивные технологии

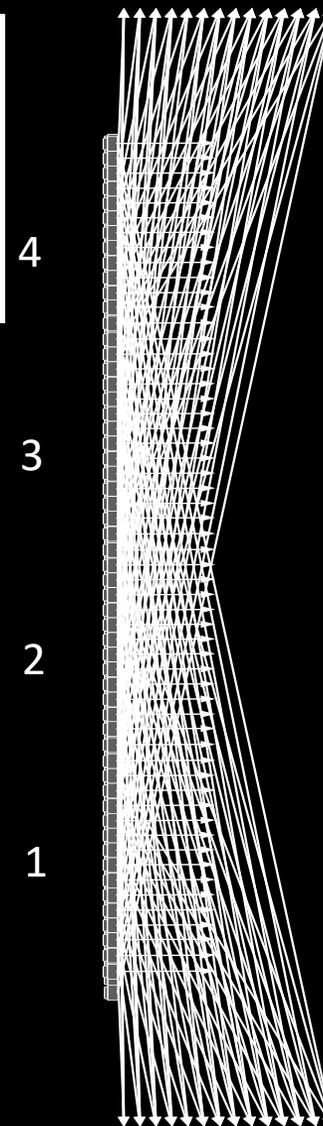




Адаптивные технологии

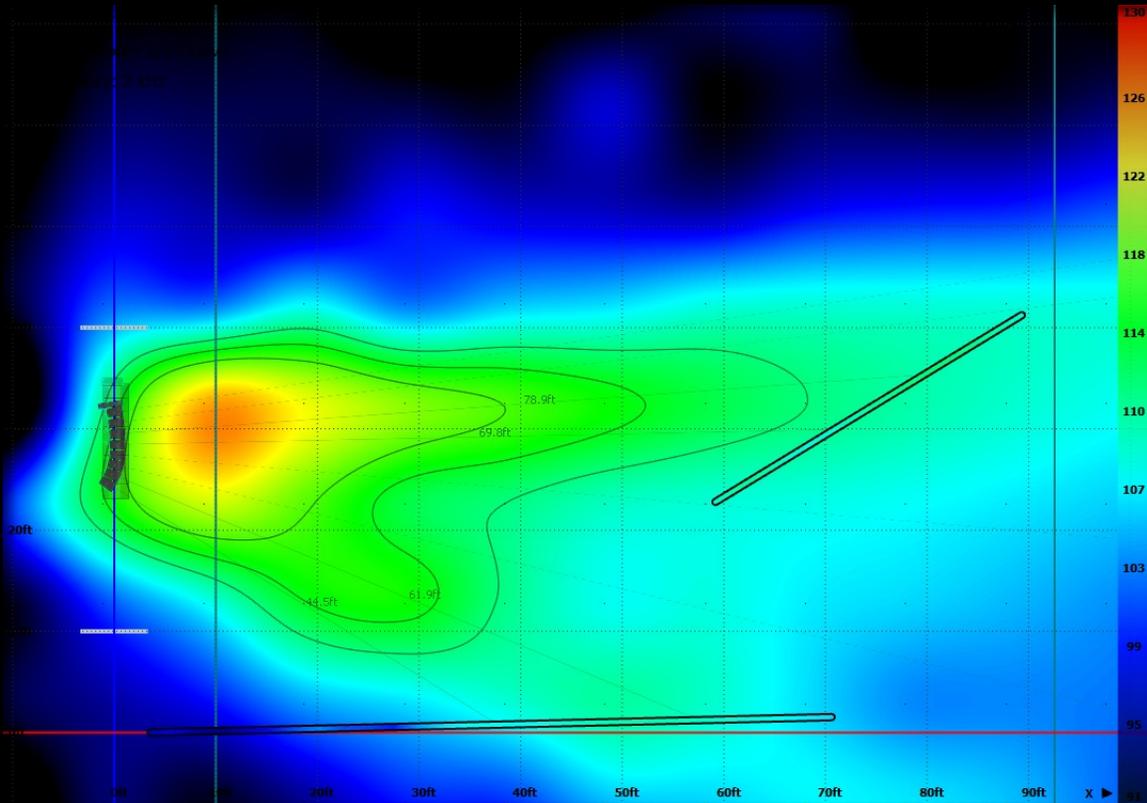


У ADAPTive систем
изменяются
вертикальные углы до 180°
оставаясь единым
акустическим источником

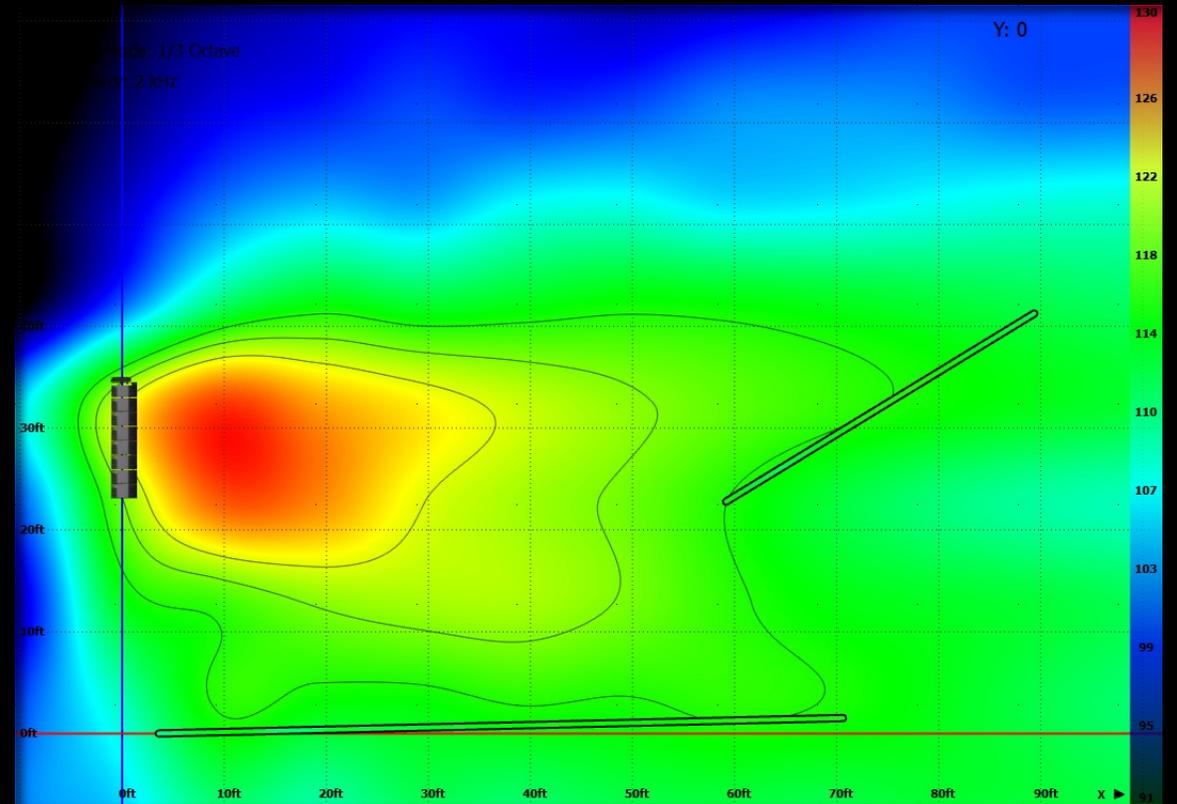




аПТИВНЫЕ + Равномерность покрытия



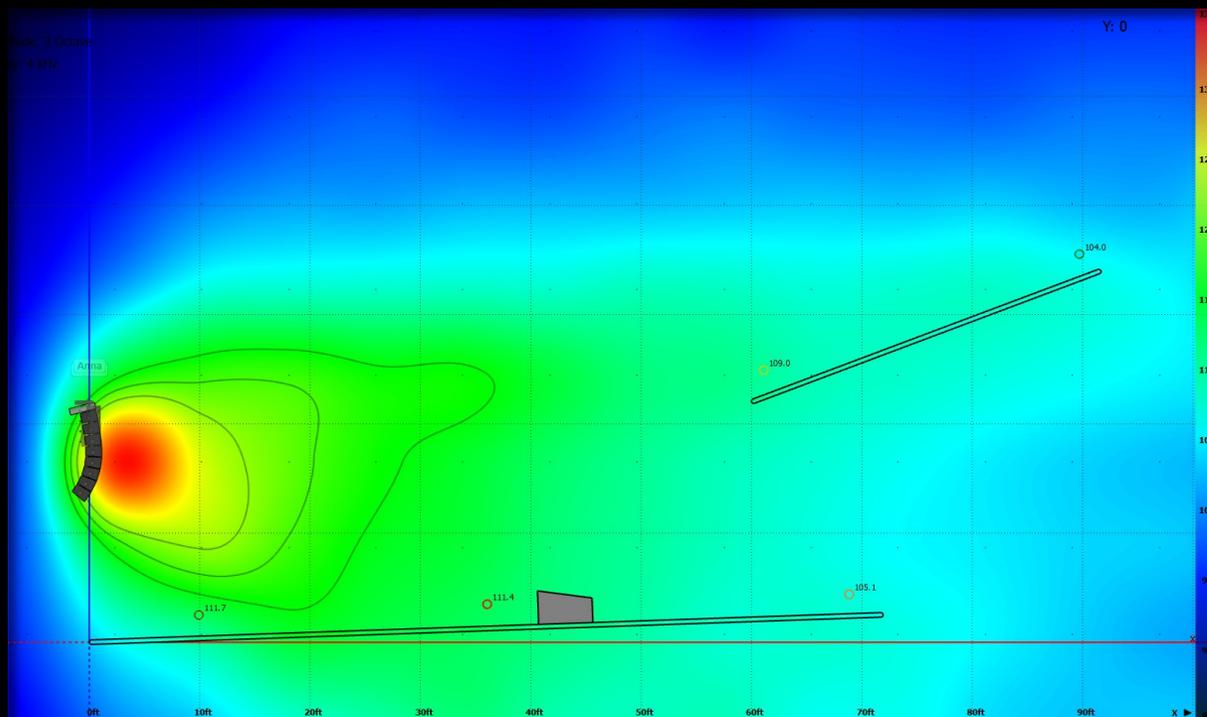
Line Array



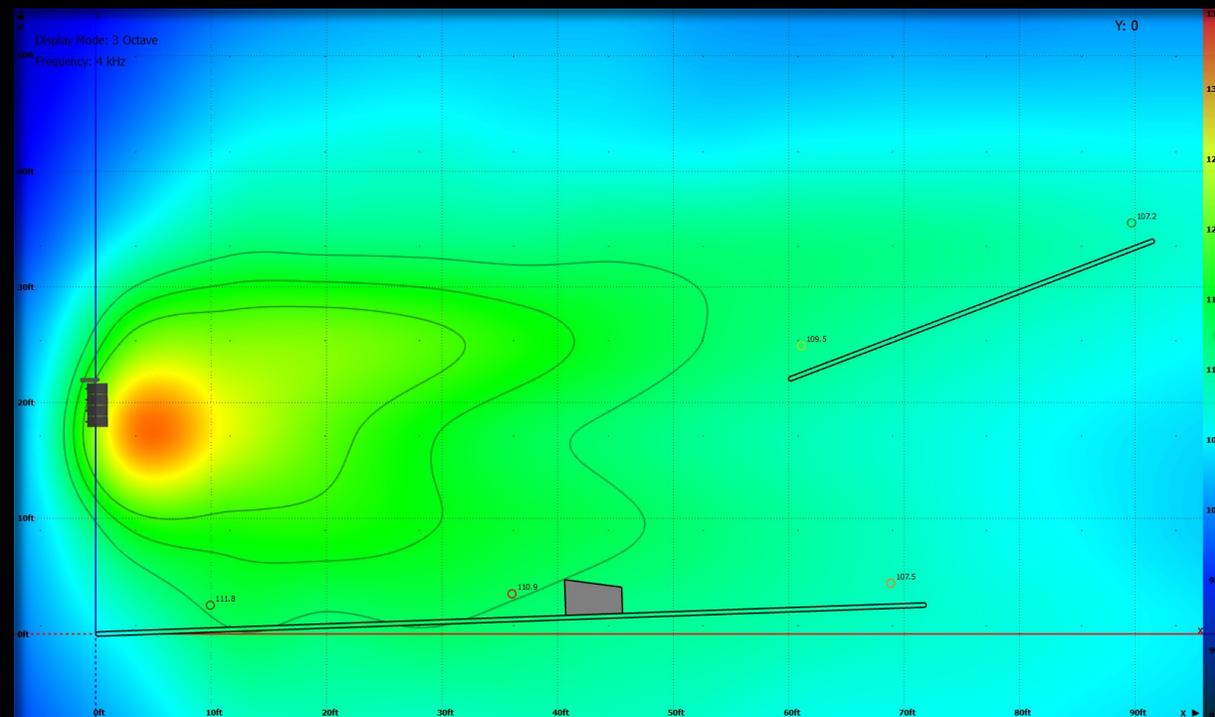
Adaptive



Адаптивные + Форма, размер, эффективность



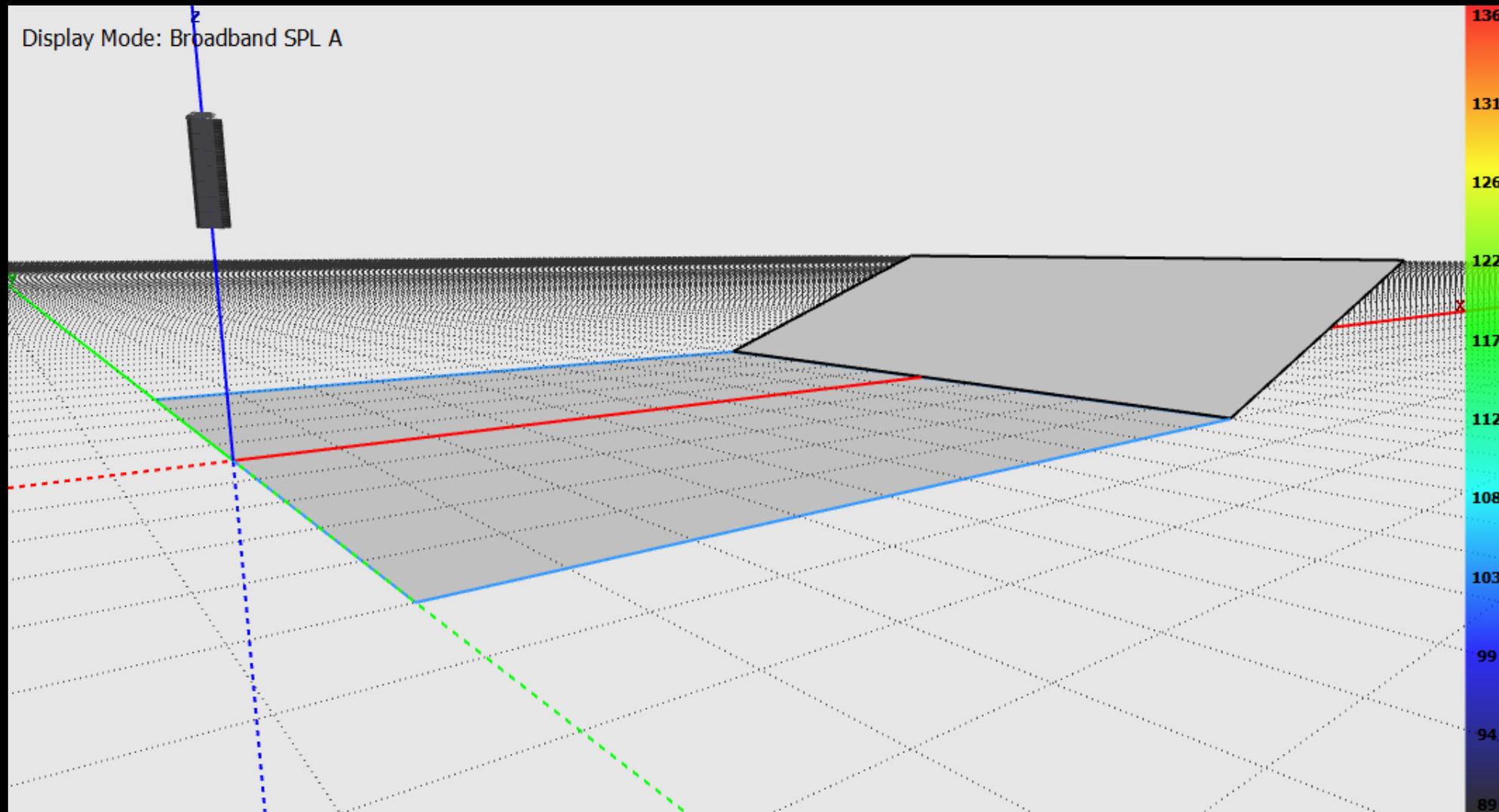
8x элементов массива
105 - 112 dB
(108.5 +/- 3.5 dB)



4x Anna
107 - 112 dB
(109.5 +/- 2.5 dB)

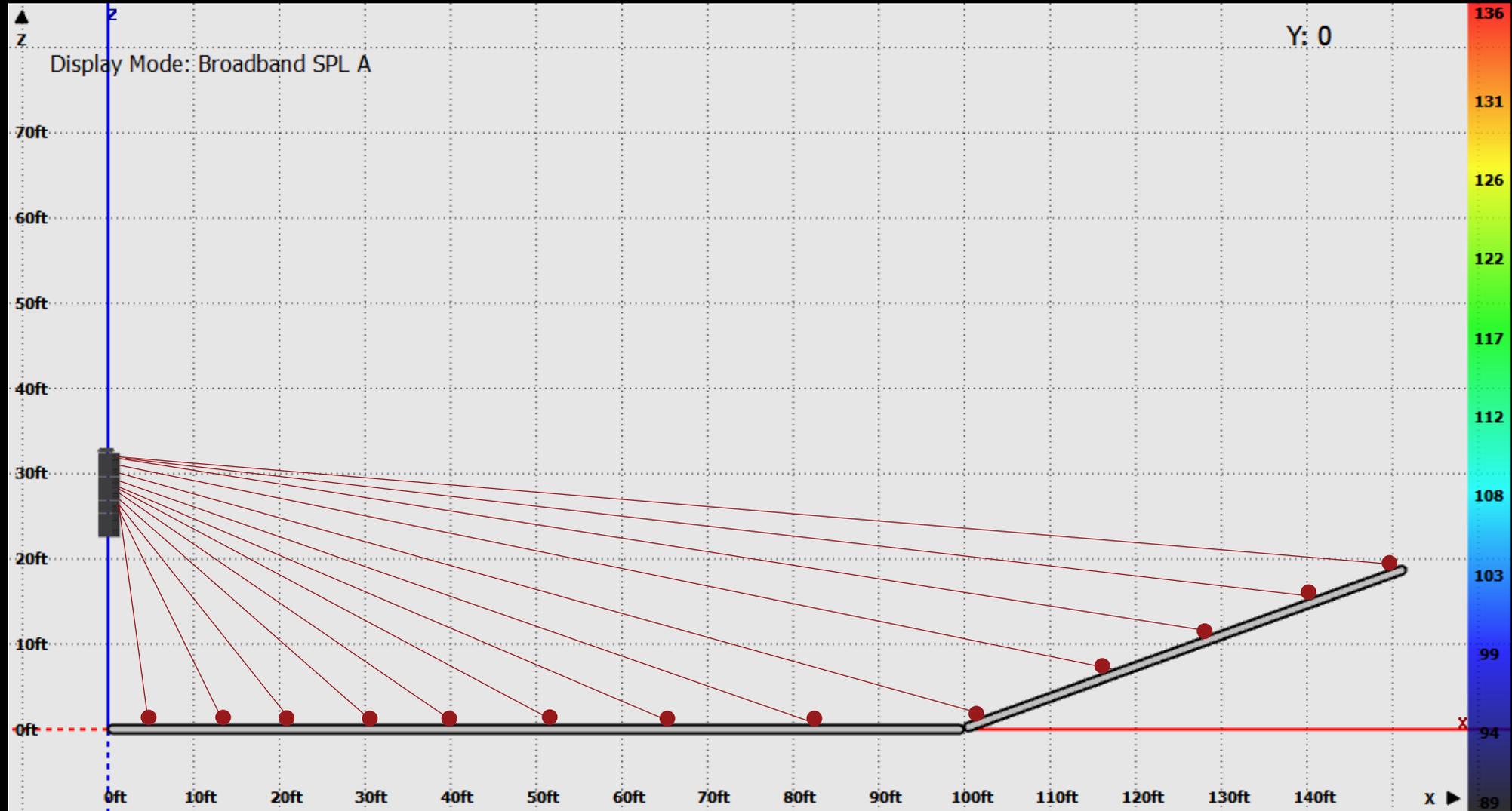


Адаптивные алгоритмы в расчетах:



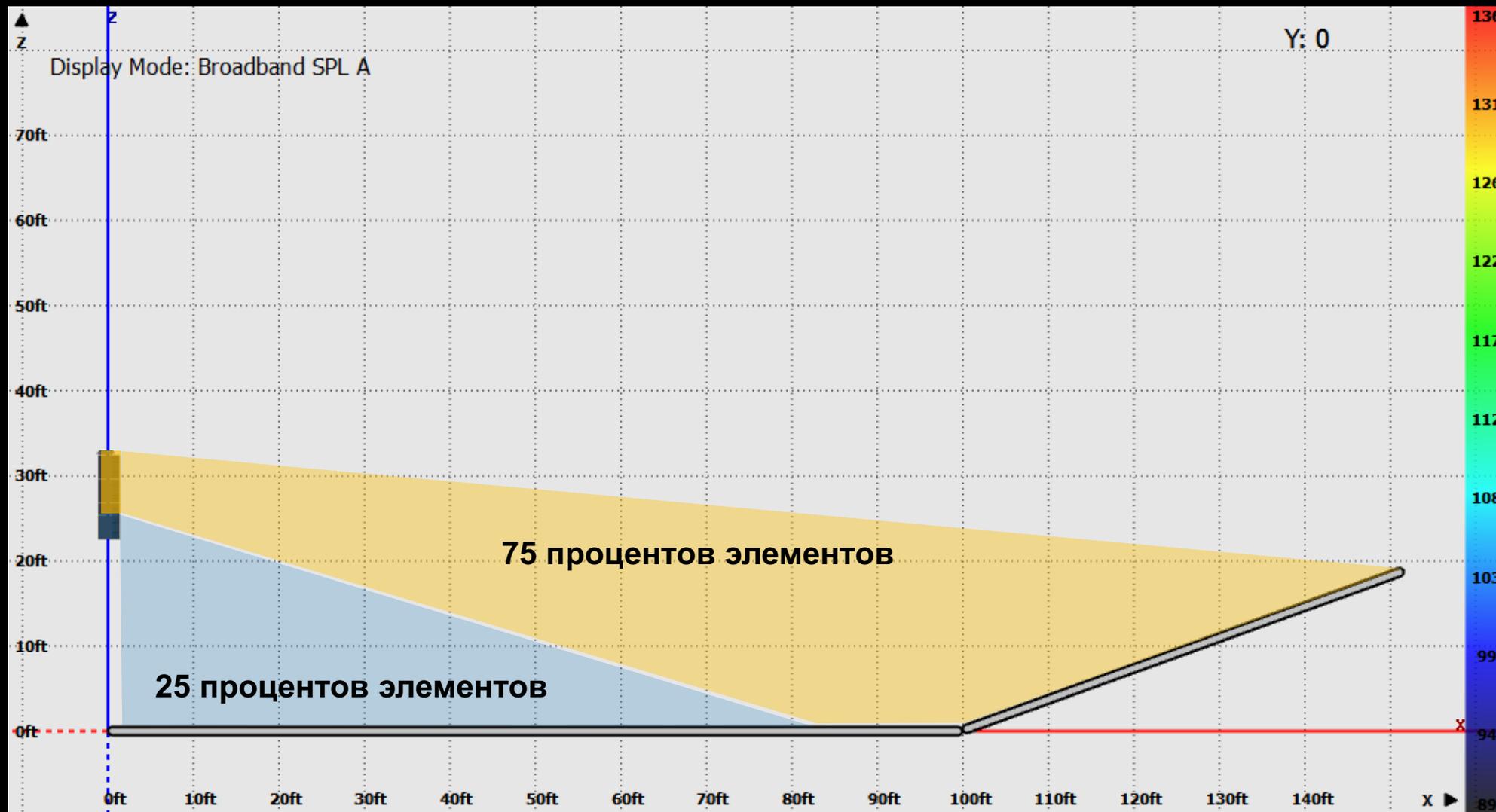


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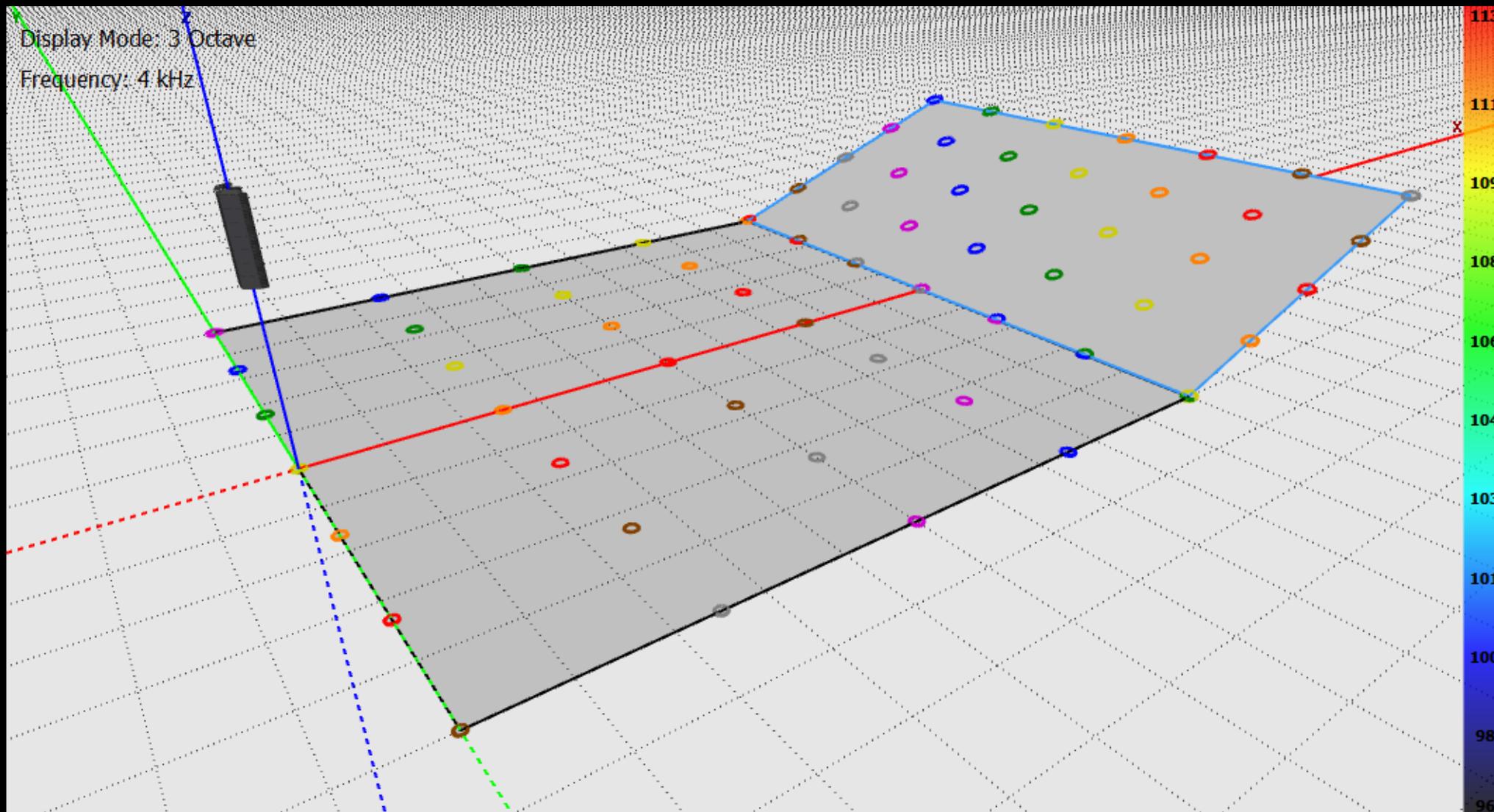


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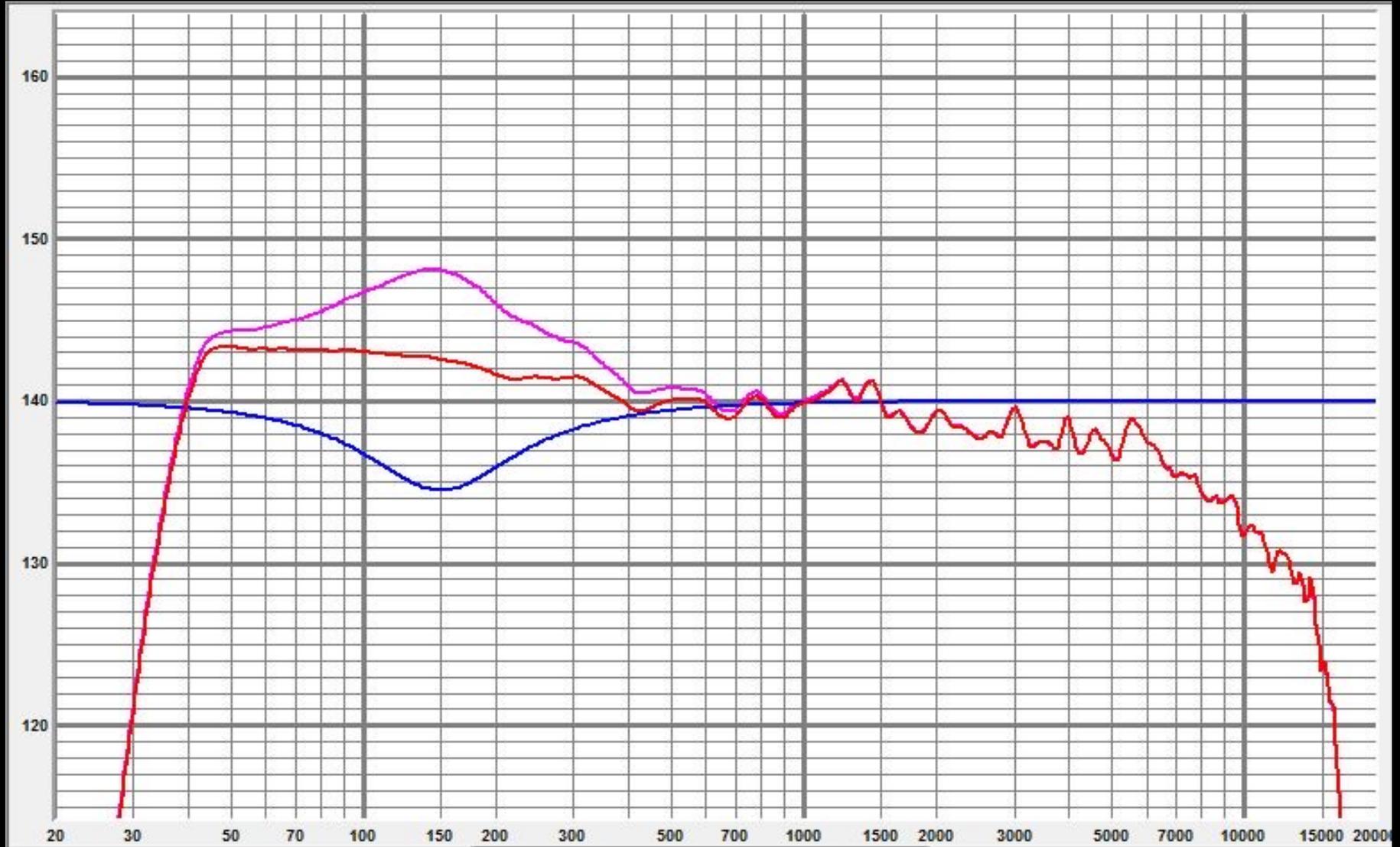


Адаптивные алгоритмы - EQ оптимизация



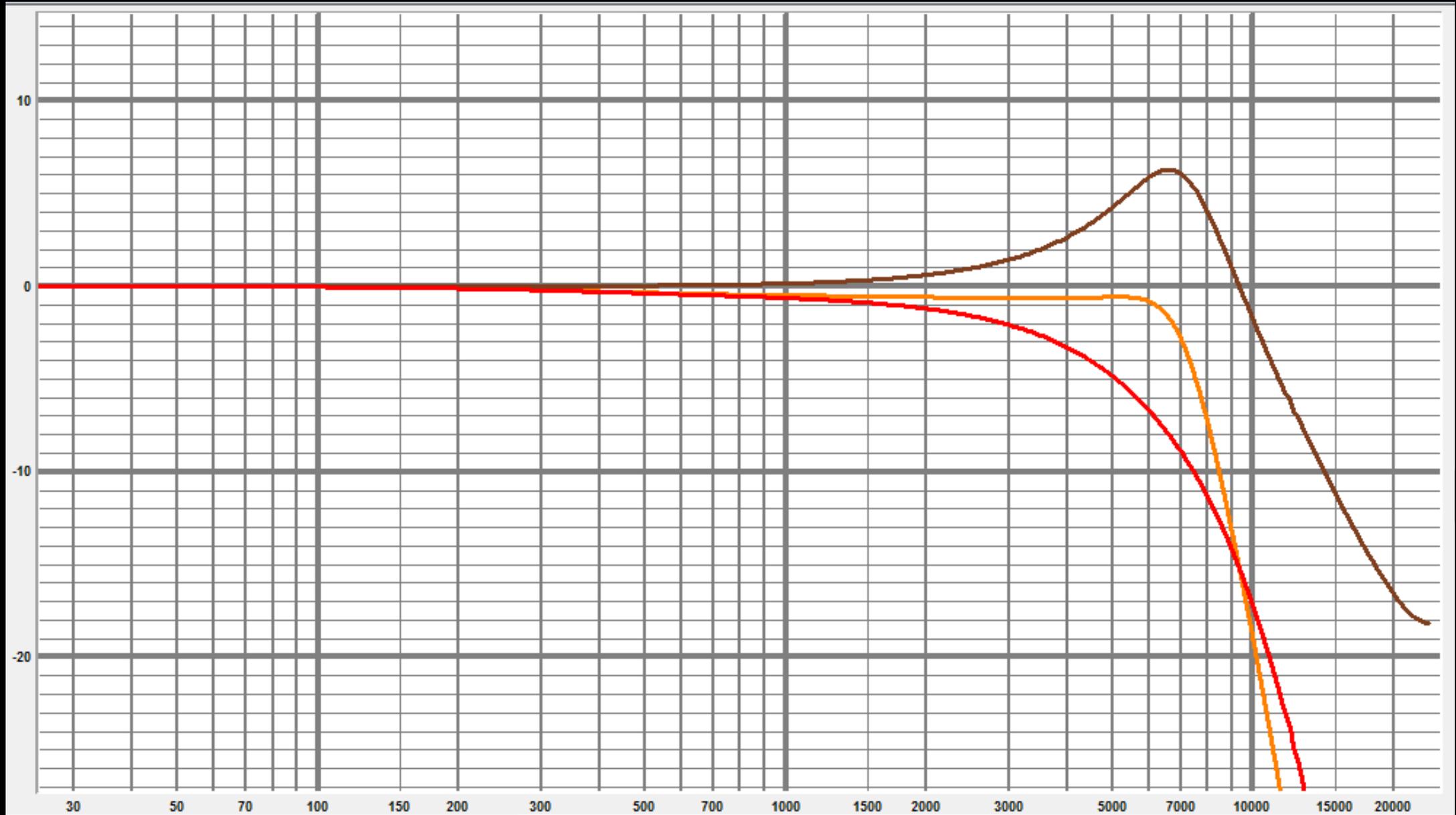


Адаптивные алгоритмы – EQ Optimization

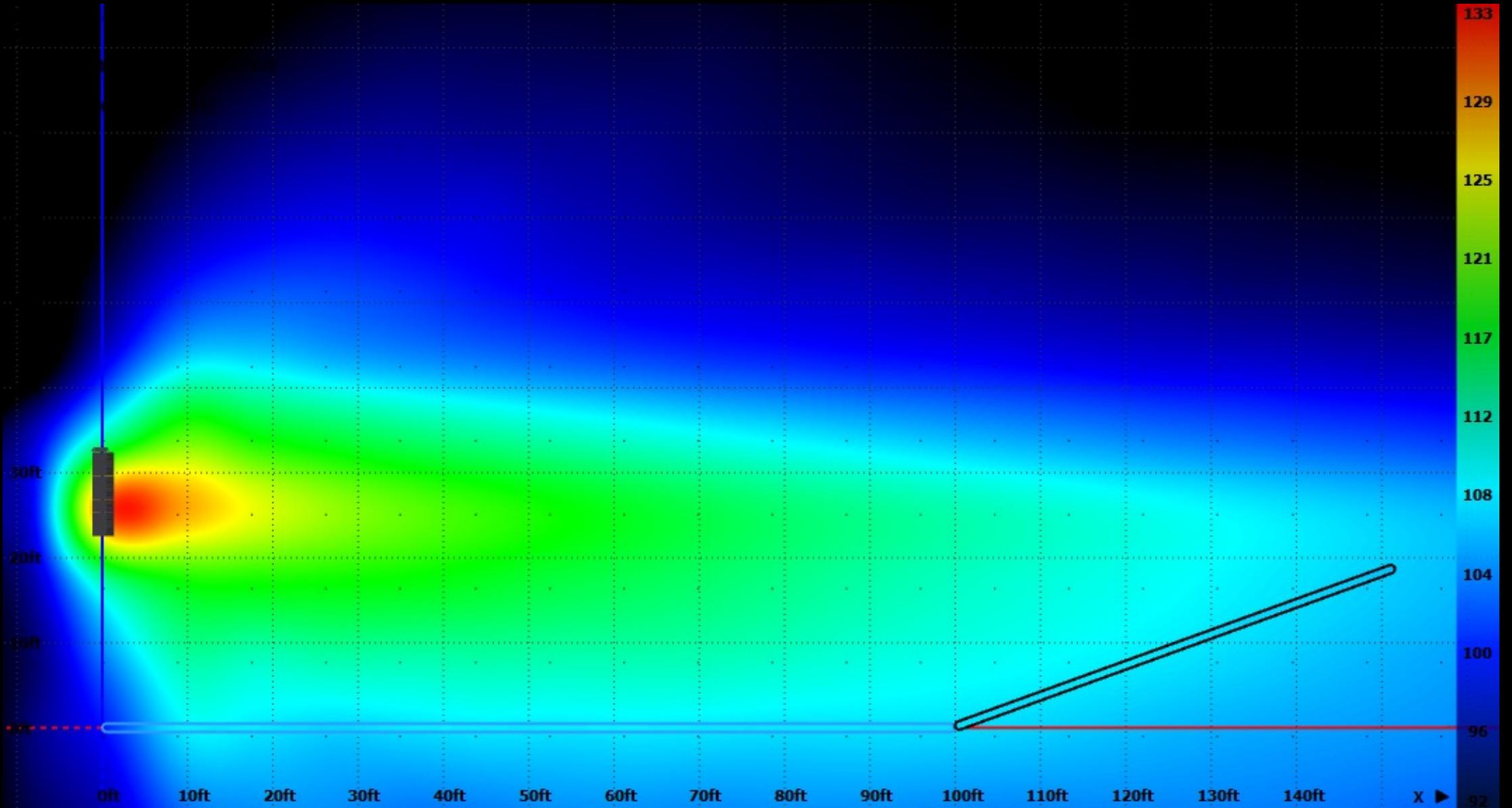




Адаптивные алгоритмы - Air Loss Compensation

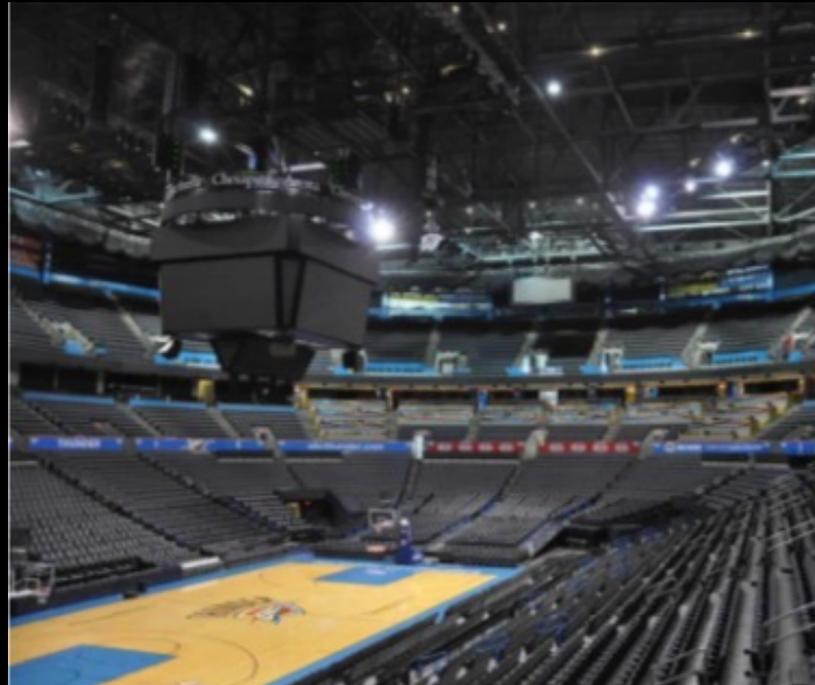


Адаптивные алгоритмы Результаты расчетов

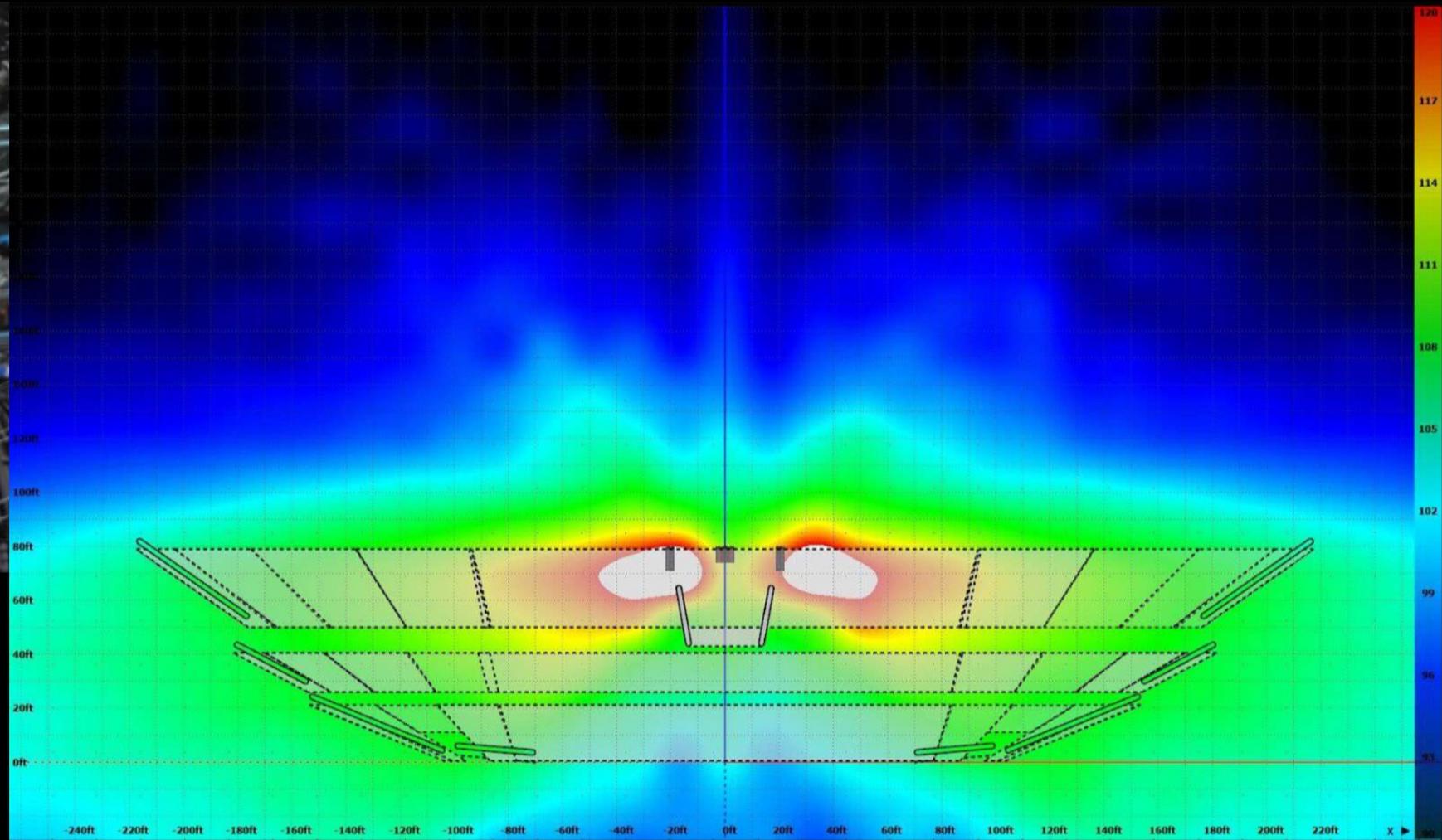




Адаптивные + Изменение секторов покрытия "CHASEPEAKE ENERGY ARENA" (Оклахома-Сити)

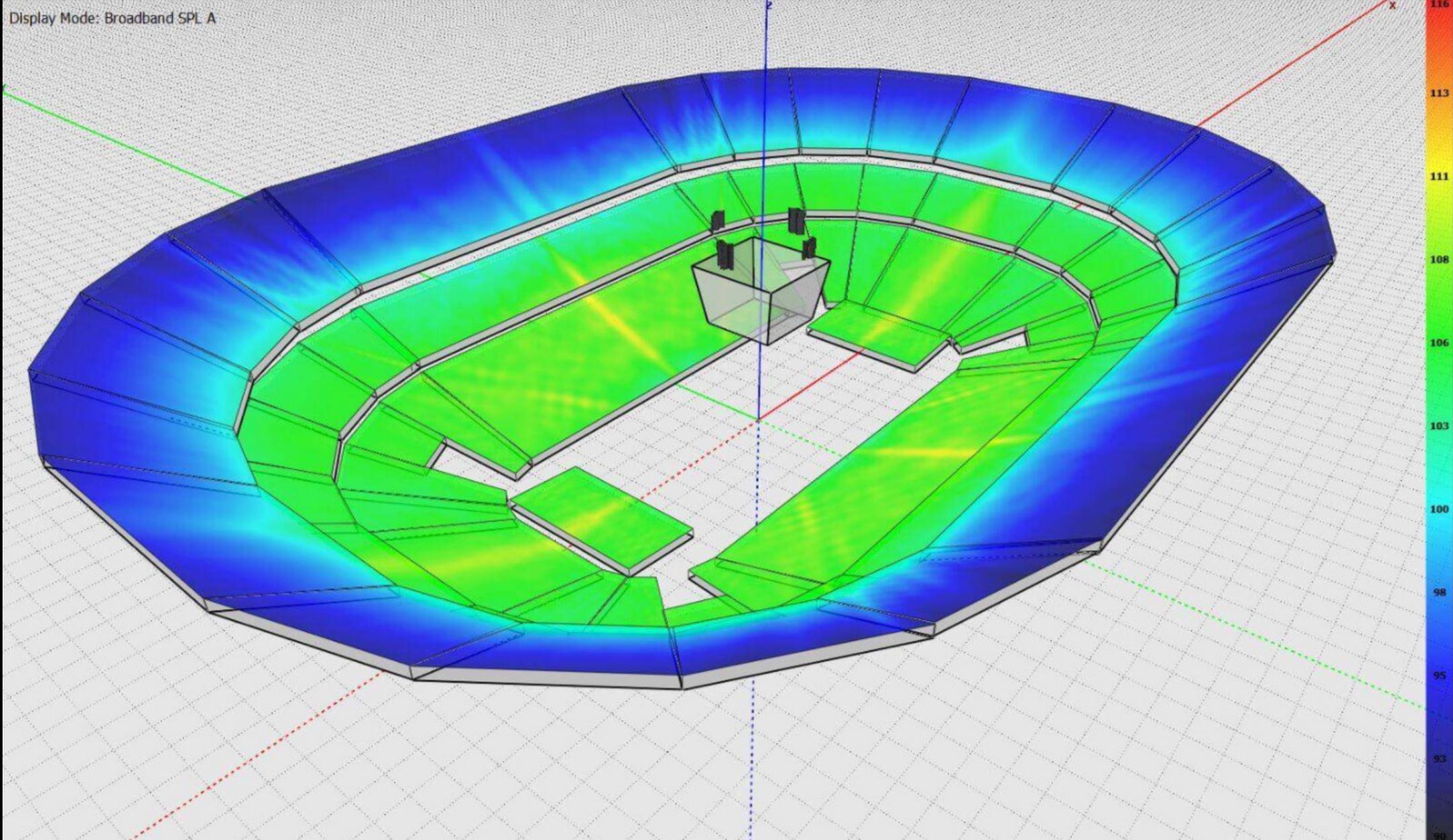


18000 мест, 40x ANYA,
8 кластеров



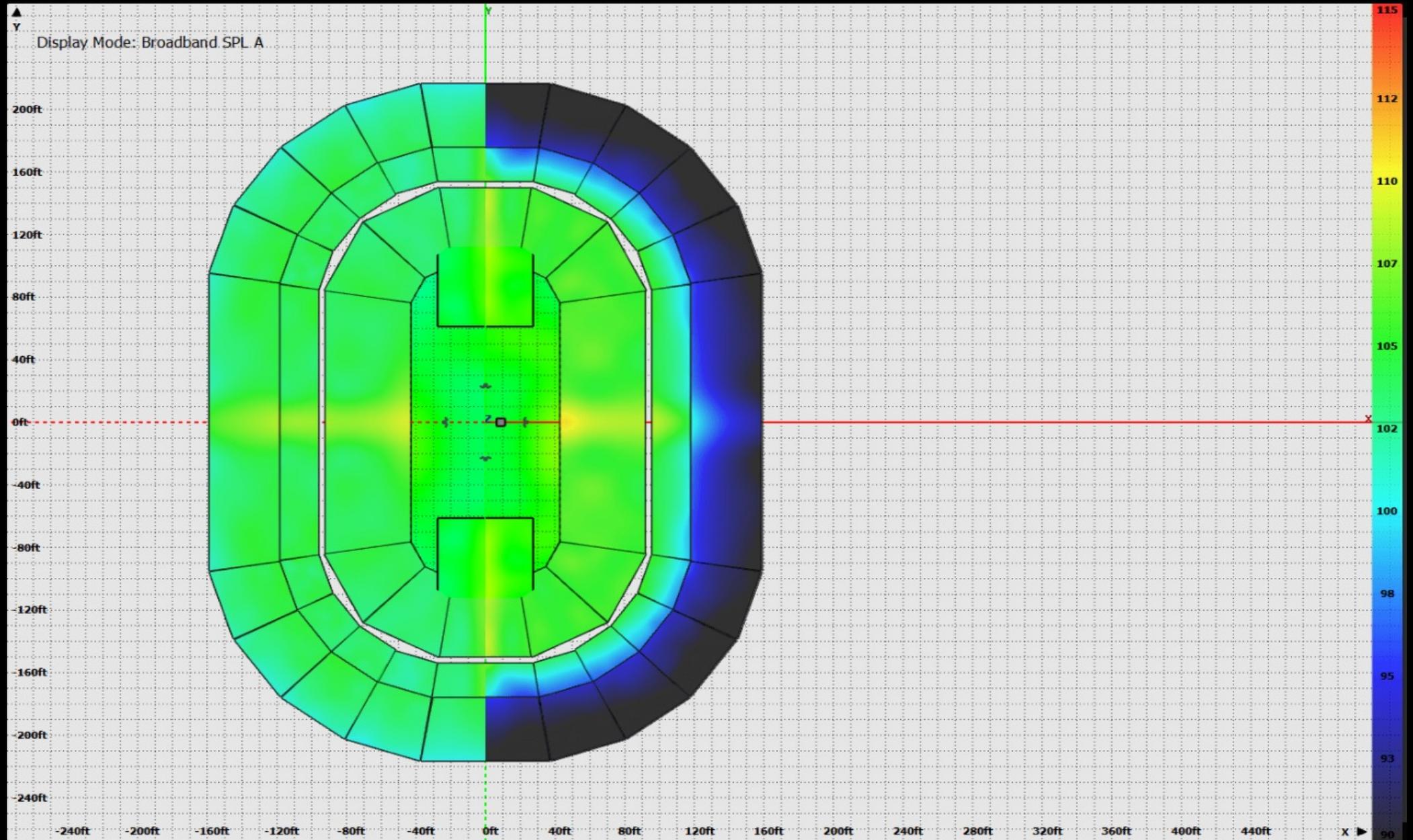


Адаптивные + Изменение секторов покрытия "CHASEPEAKE ENERGY ARENA" (Оклахома-Сити)





Адаптивные + Изменение секторов покрытия "CHASEPEAKE ENERGY ARENA" (Оклахома-Сити)



AC6

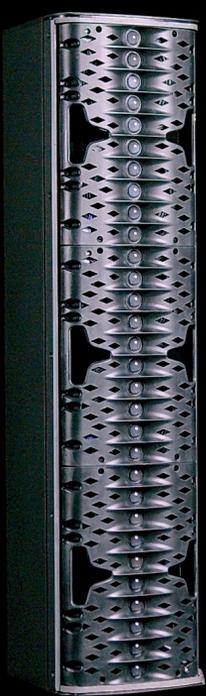
Adaptive Column

Адаптивная колонна AC6



970mm
38.2"

2EAW

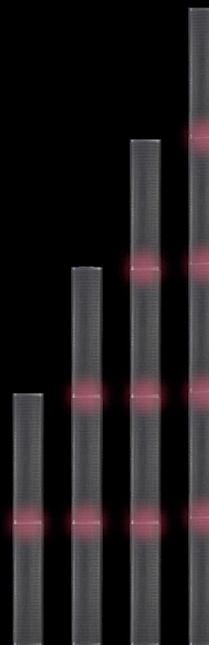


36 Transducers
36 Amplifier Channels

30 x 1" Dome Tweeters
6 x 6" Woofers



CSA - Concentric
Summation Array



TECHNICAL SPECIFICATIONS

2-WAY FULL RANGE ADAPTIVE COLUMN

PERFORMANCE

Max SPL (Peak 1m), unadapted ¹	143dB
Operating Range ² (-10db)	65Hz – 20kHz
Nominal Beamwidth ³	120 ° Horizontal x Adaptive Vertical

CONFIGURATION

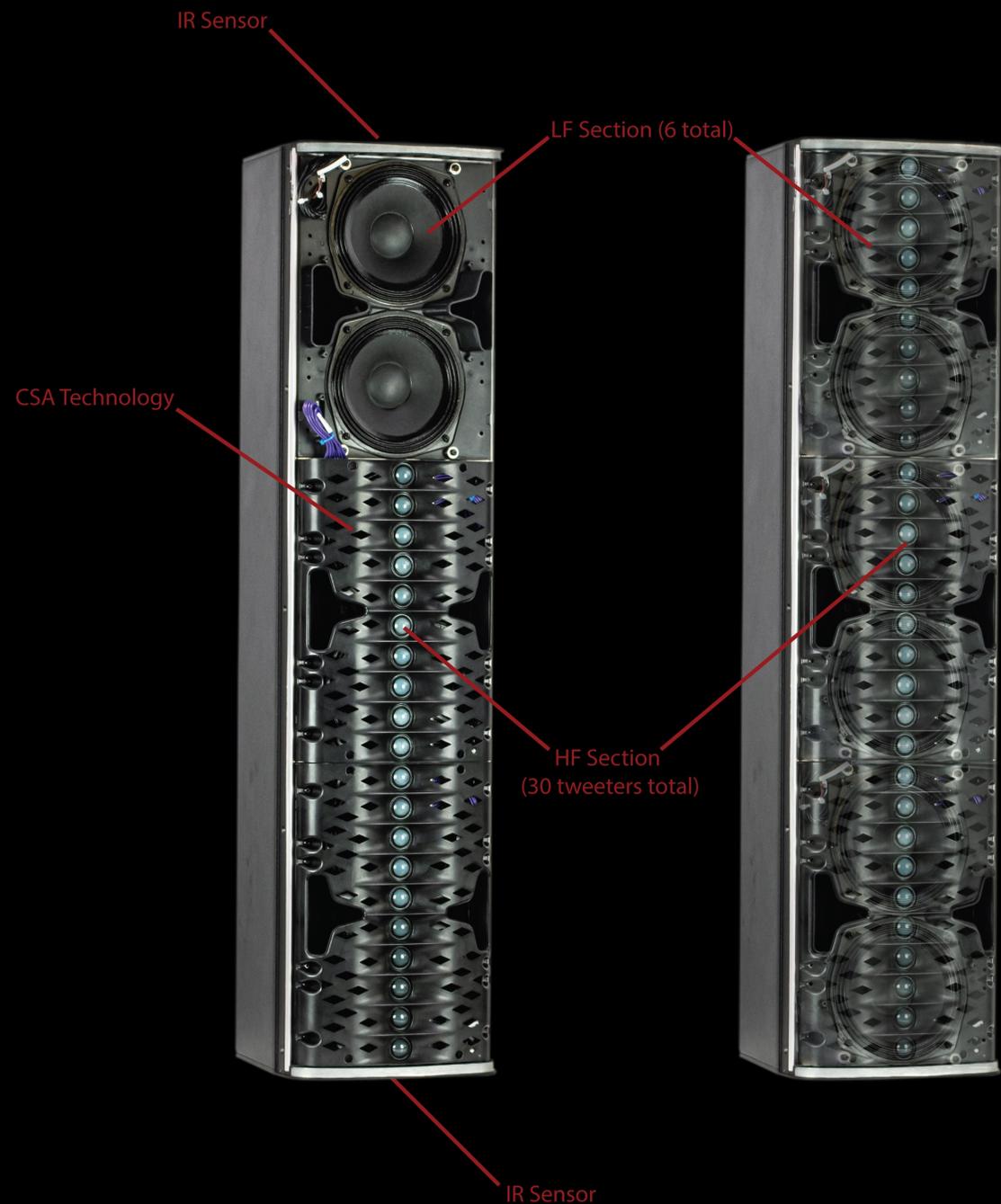
LF Transducer, Loading	6 x 6 in cone, 1.7 in voice coil vented (w/ CSA)
HF Transducer, Loading	30 x 19mm dome tweeter, horn loaded
Operating Mode	6 x LF, 30 x HF
Amplifier Channels	
Signal Processing	DSP with EAW Focusing™ and Adaptive Performance™

ELECTRICAL

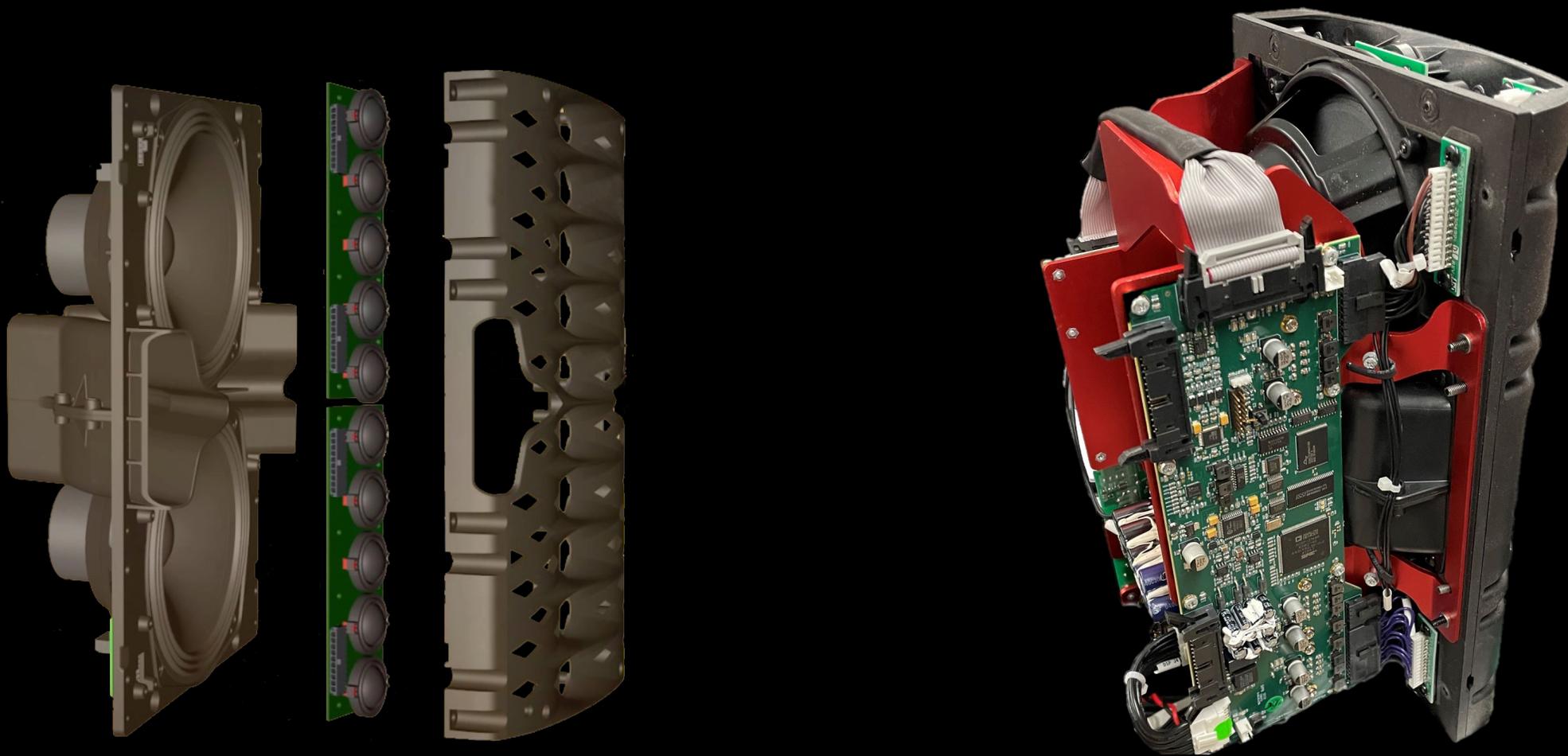
Input Type	Electronically Balanced
Max Input Level	25dBu
Impedance	20kOhm (balanced)
Wiring	2x XLR, Pin 1 chassis, pin 2+, pin 3- 2x Separate Loop through XLRM (for analog signal only)
Dry Contact Interface	Input override, preset recall, fault status Separate loop through & 6x pass through pins
Voltage	5V nominal, 12V maximum
Power Draw	600W
Input & Loop Type	Analog/AES/Dante®
Amplifier Type	Class D
Amplifier	6 x 150W LF 30 x 75W HF
Max Output LF / HF (Peak)	
Driver Protection	Integral DSP Limiting
AC Mains (nominal)	Connector Neutrik PowerCON® True1 Top Input 100V to 240V Frequency 50Hz to 60Hz

POWER CONSUMPTION

Full	600W
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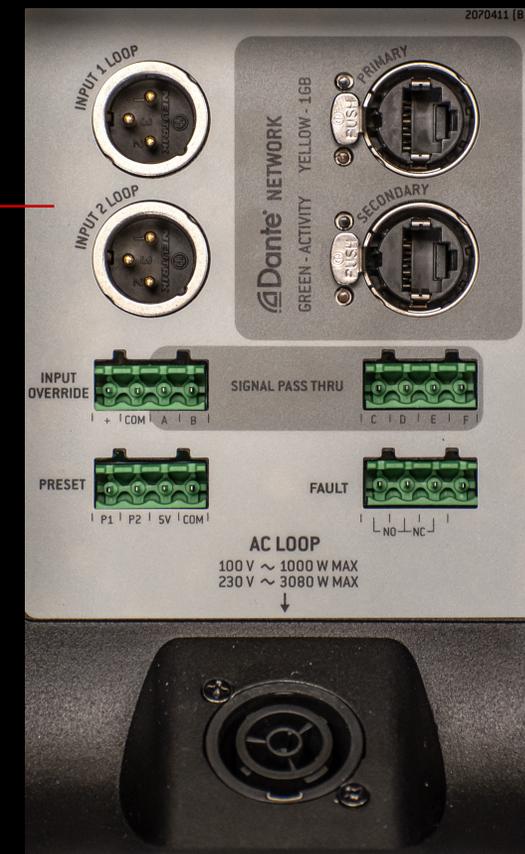
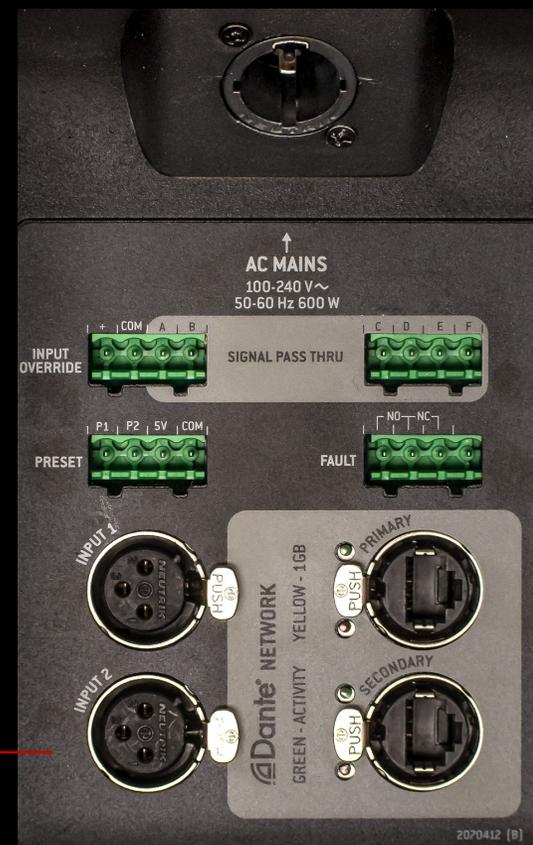


- Модульные системы, которые можно полностью обслуживать спереди.





- Dante и аналоговые входы
- Две панели подключения
- Разъемы Ethernet передают аудио и сигналы управления
- Возможность стороннего контроля состояния системы
- Дистанционное внешнее переключение пресетов
- Опции для уличной установки

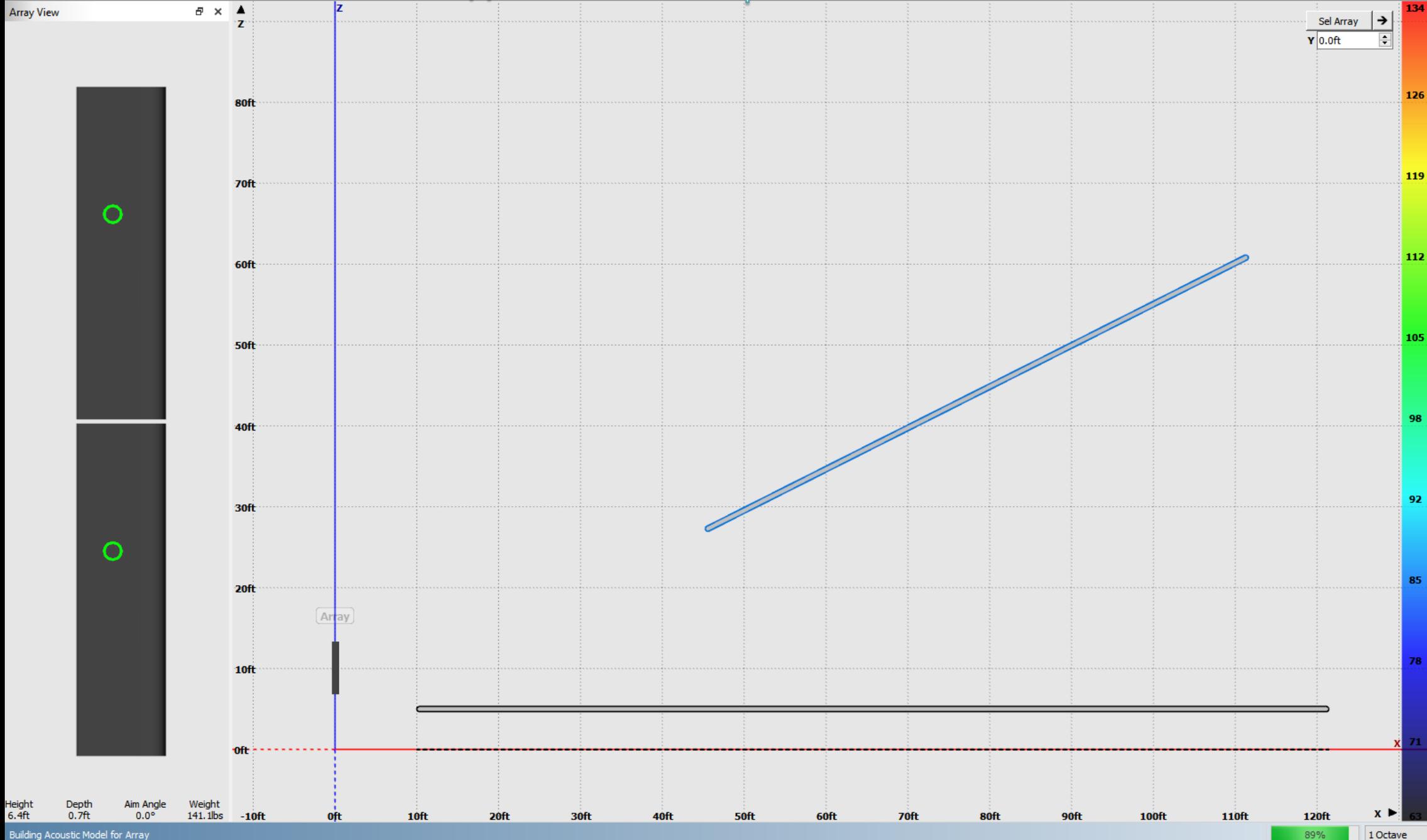


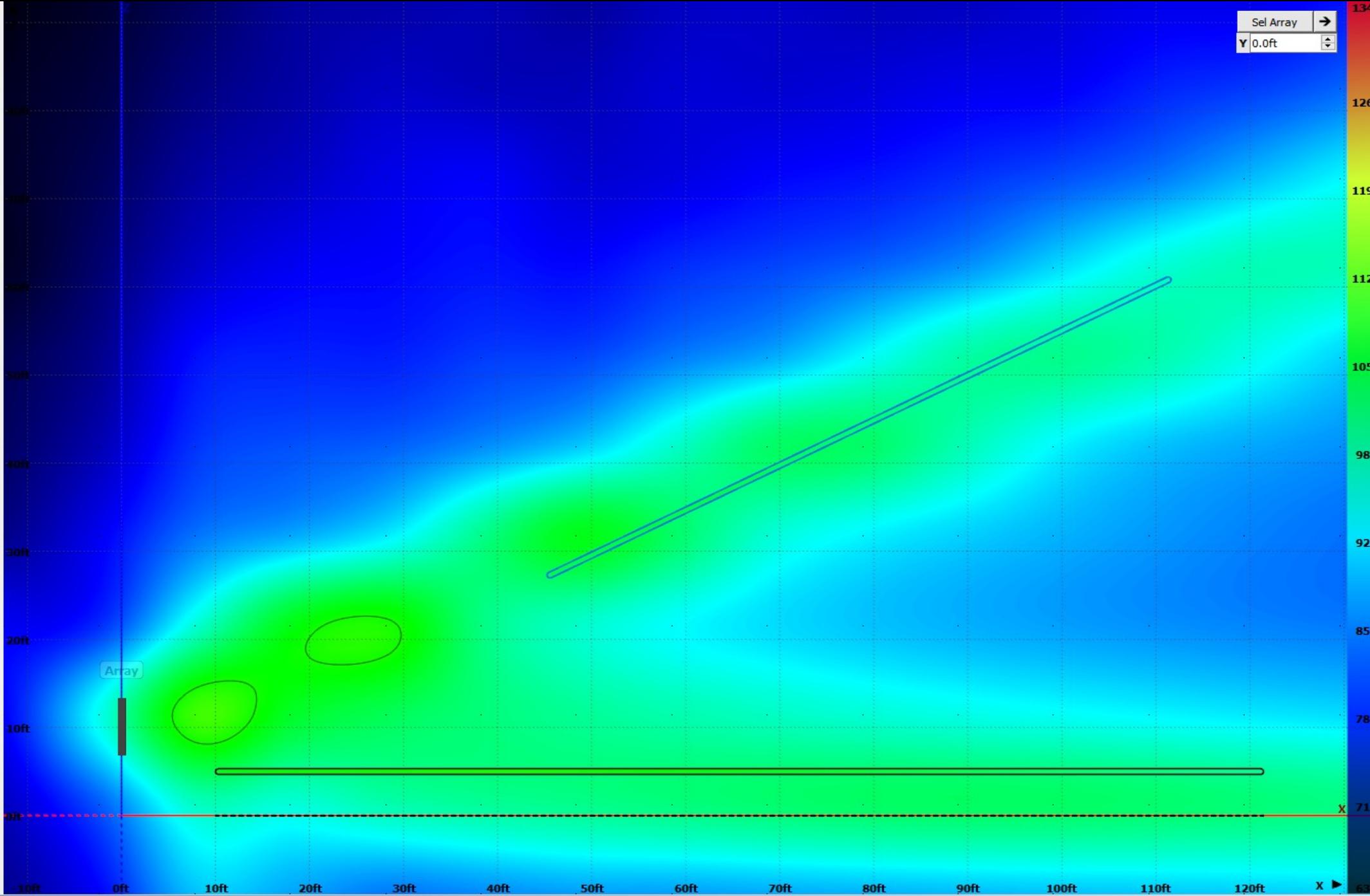


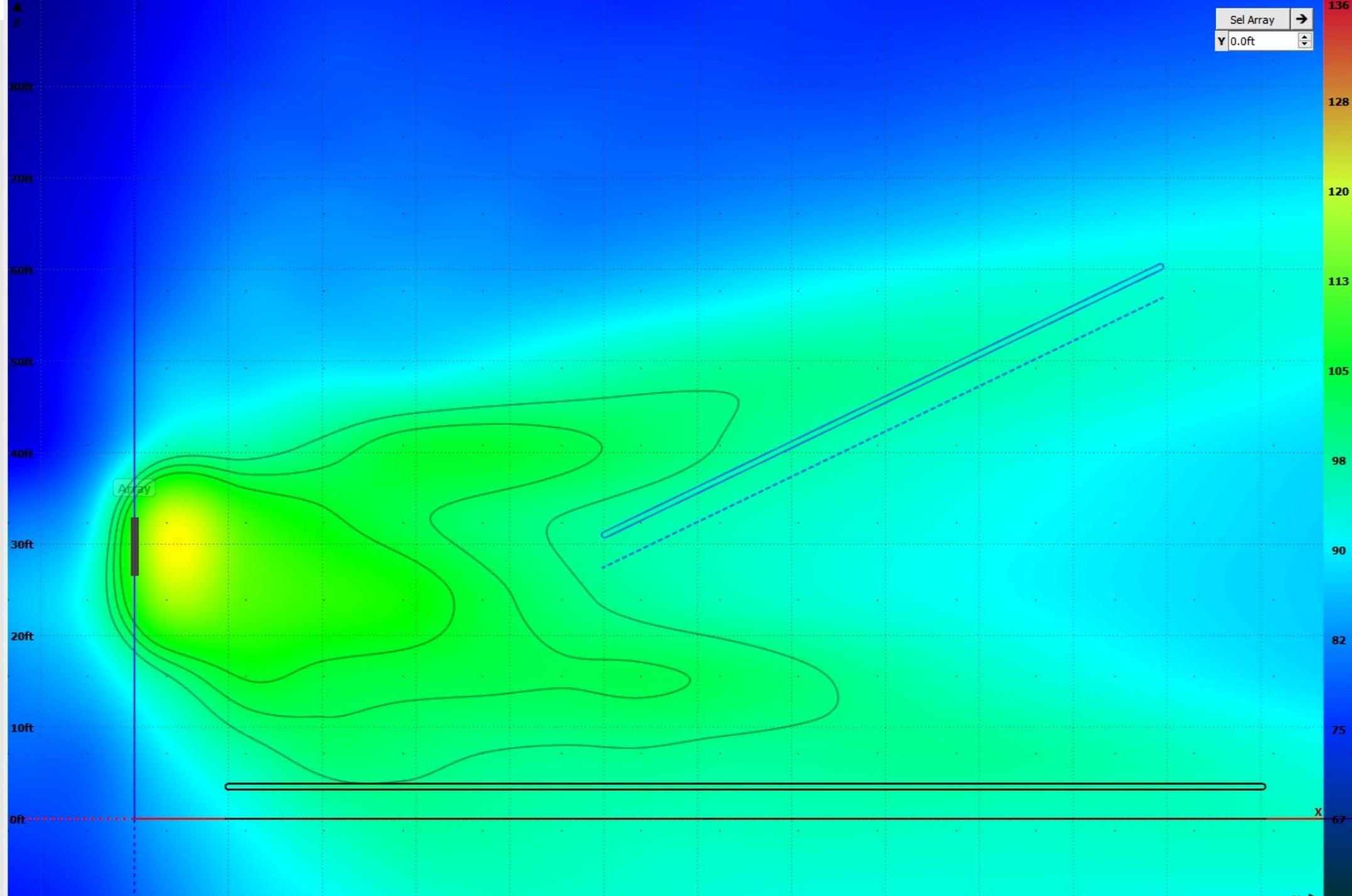
Использование Адаптивных алгоритмов без подключения ПО.

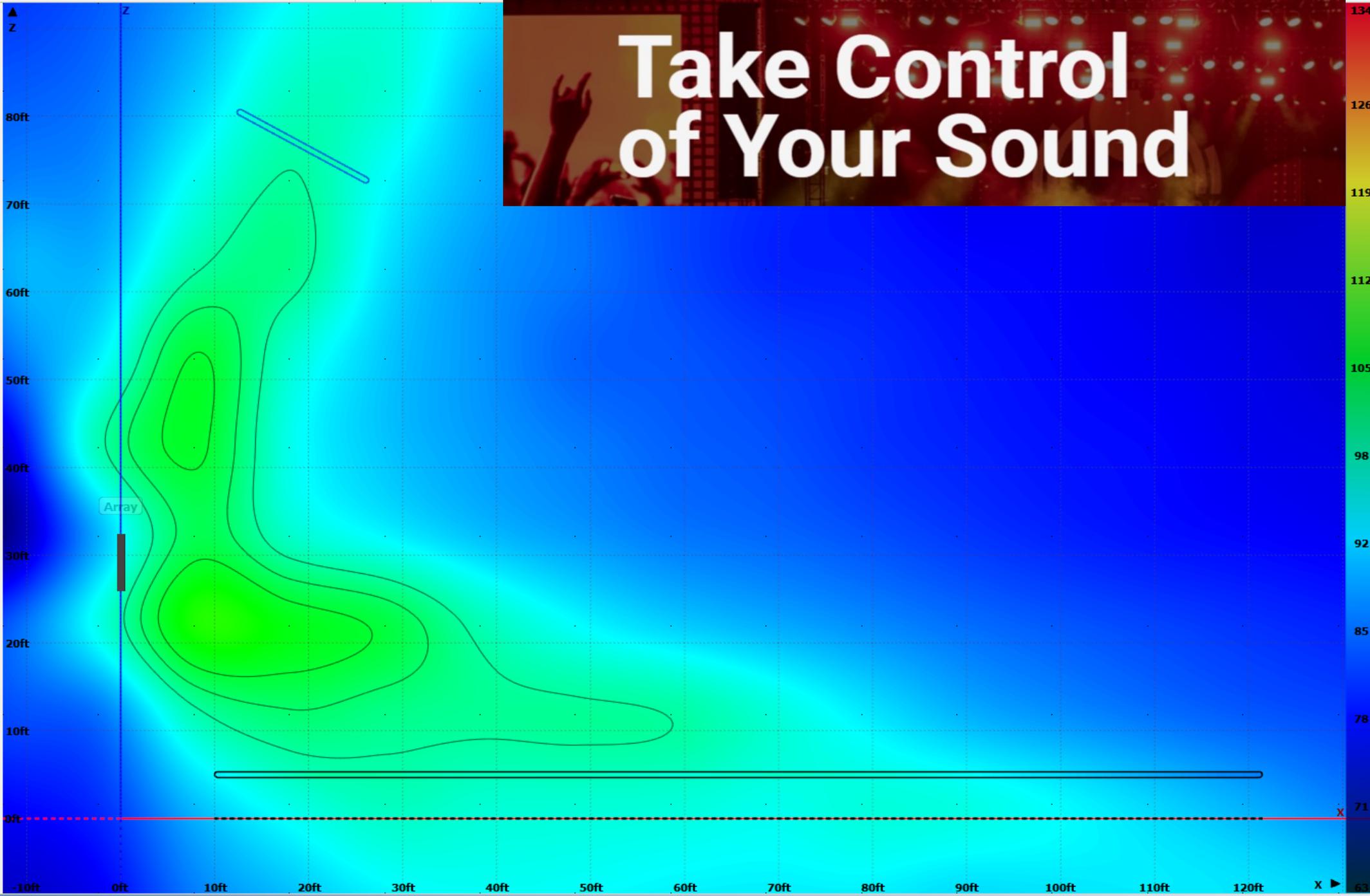


Адаптивные алгоритмы АСб:









Height 6.4ft Depth 0.7ft Aim Angle 0.0° Weight 141.1lbs

(25.6ft, 0.0ft, -5.9ft) XY 25.6ft

AC6 IN ACTION

GRAND CANYON
UNIVERSITY

BEAW

Список оборудования стадиона Snapdragon Университета штата Сан-Диего

102x AC6 ADAPTive

-131x JF80z

-198x MK8100i

-2x QX300

-6x QX500i

126x CIS300

-254x CIS400

-23x MK2300i

-15x LS432i

-18x LS832i





2x AC6 ADAPTive

2x SBX118



Dream Ride

AC6 in production



DREAM RIDE

Custer Road United Methodist Church

Гармоничное сочетание с традиционной архитектурой



Стадион Университета Мичиган

(250м, +/-3 дБ на 107.000 мест, 58 ANYA (29\29)+ 24 Otto)



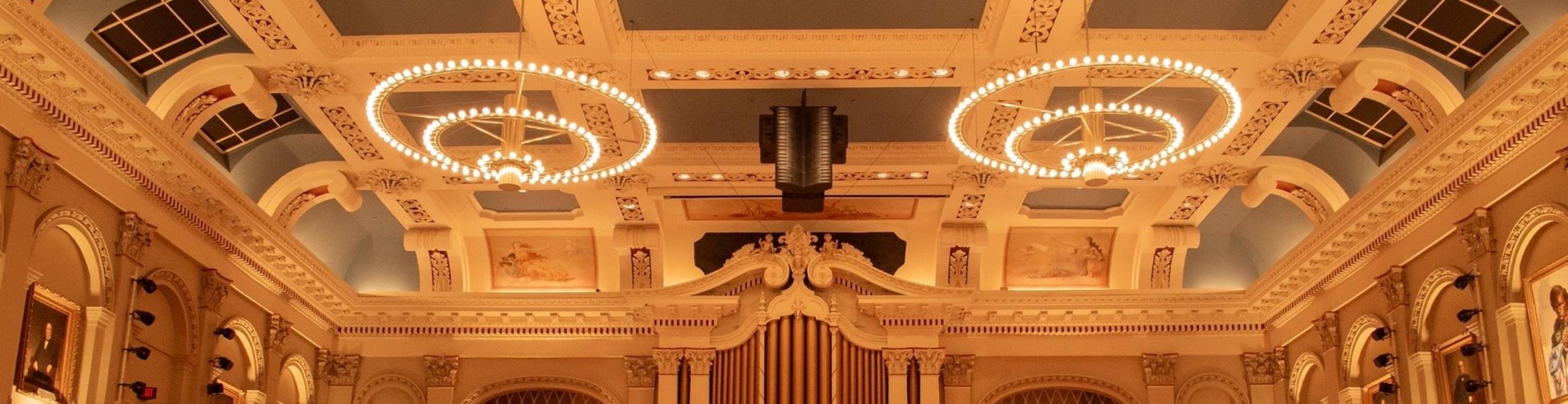


Wu Tsai Театр
Линкольн-Центр, Нью-Йорк.
2200 - 2700 мест, 18* ANNA, 4* Otto, 6* AC6



Bell Centre





Mechanics Hall

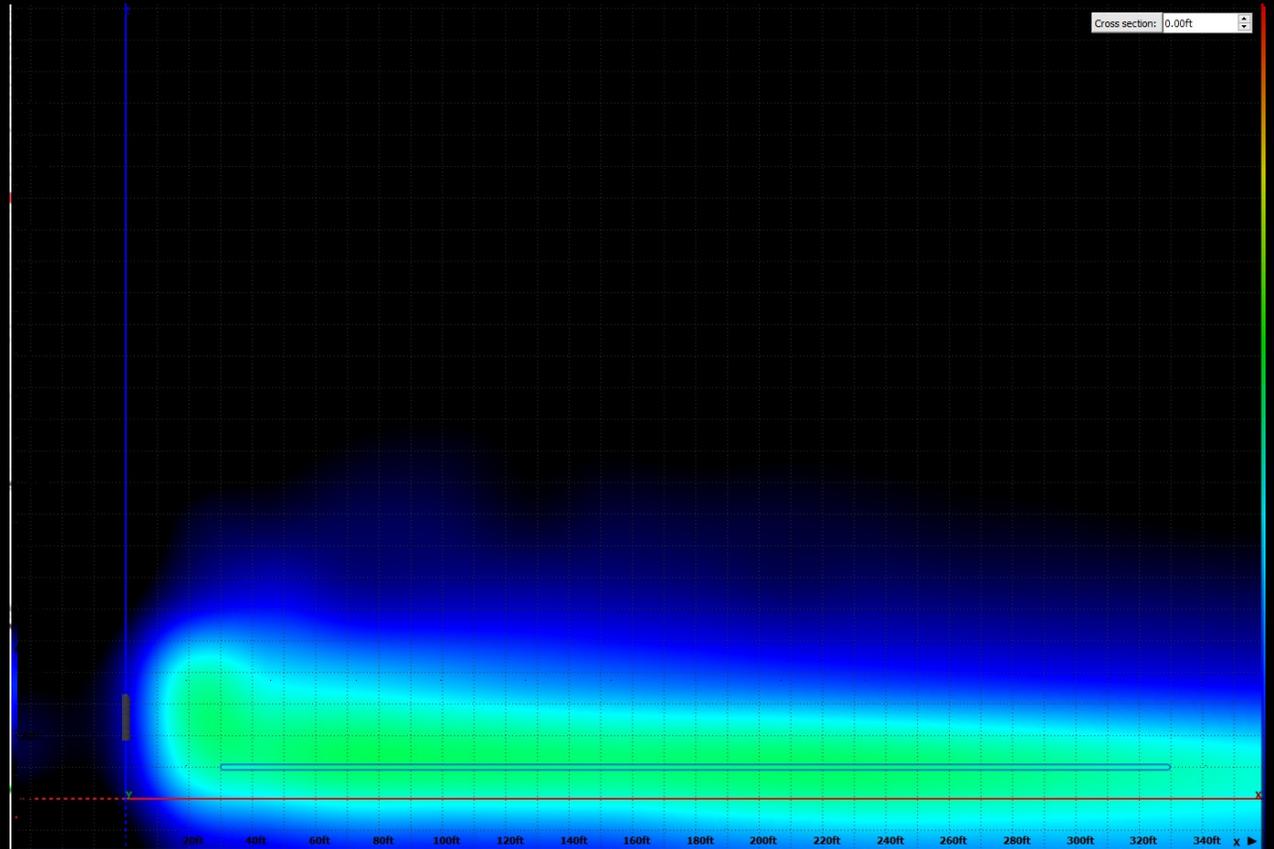
St. Louis Symphony





Адаптивные системы EAW

- Интуитивно понятное программное обеспечение для проектирования и управления RESOLUTION
- Непревзойденные акустические характеристики
- АДАПТИРУЮТСЯ к ЛЮБЫМ требованиям по размещению
- Управляемая направленность системы и равномерное покрытие звуковым давлением



DNK

MR PROJECT

SEAW





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of Your Sound**

BEAW[®]