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가 ,  
**RMS** , **Peak** <sup>1)</sup>  
 가 (Power handling) (Rated Power) , 가  
 가 **RMS** **Peak**  
 가

(Power handling) 가 ,

- **AES** Power handling: 175Watt
- **PGM**<sup>2)</sup> Power handling: 350Watt
- **Peak** Power handling: 700Watt

가 94dB SPL/W , ,

**AES** Power handling , 175Watt ,  
 가 .

**PGM** Power handling 350Watt , 가

**Peak** Power handling 700Watt , 가

, **Peak** Power handling

(Rated **Impedance**)<sup>3)</sup>가 .

) 8Ω + 8Ω

• :

1. 가

2.

• :

1. 가 100W(8Ω) :  $P = \frac{V^2}{R} \rightarrow 100W = \frac{(28.3V)^2}{8\Omega}$

) 8Ω + 4Ω

• :

1. 가 2 /

2. 가

• :  $P = \frac{V^2}{4\Omega} = 200W$  ( ) 가

) 8Ω + 16Ω

• :

1. ( : 100W → 50W)

2.

• (8Ω 2 ) :  $Z_{total} = \frac{8\Omega}{2} = 4\Omega \rightarrow$  가

• (8Ω 2 ) :  $Z_{total} = 8\Omega + 8\Omega = 16\Omega \rightarrow$

가

, 가

가

### Safety Margin

200W

0dB	200W
-3dB	100W
-6dB	50W
-9dB	25W

200W 가 0dB 200W  
 , 100W , 200W  
 , -3dB 100W  
 200Watt 2 ?), 100Watt 가 (

100m 1m 가  
 가 2 dB SPL 6dB  
 100m, 100 ,  
 -40dB 가 , 85dB SPL 100m  
 125dB SPL@1m  
 가 94dB SPL/W 1250Watt 125dB SPL@1m

- AES Power Handling: 175Watt
- PGM Power Handling : 350Watt
- Peak Power Handling: 700Watt

700Watt

MaxSPL=122dB SPL

가

70 -37dB , 85dB SPL+37dB= 122dB SPL

70m 85dB SPL

4)

2

-6dB

5)

2

-3dB

가

2-way

3-way

가 “

7)

가 ,

- : 94dB SPL/W
- AES : 175Watt
- PGM : 350Watt
- Peak : 700Watt

34dB = 119dB SPL , 50m 85dB SPL , 85dB SPL+  
 119dB SPL

### 350W

Peak

700Watt

2

700Watt

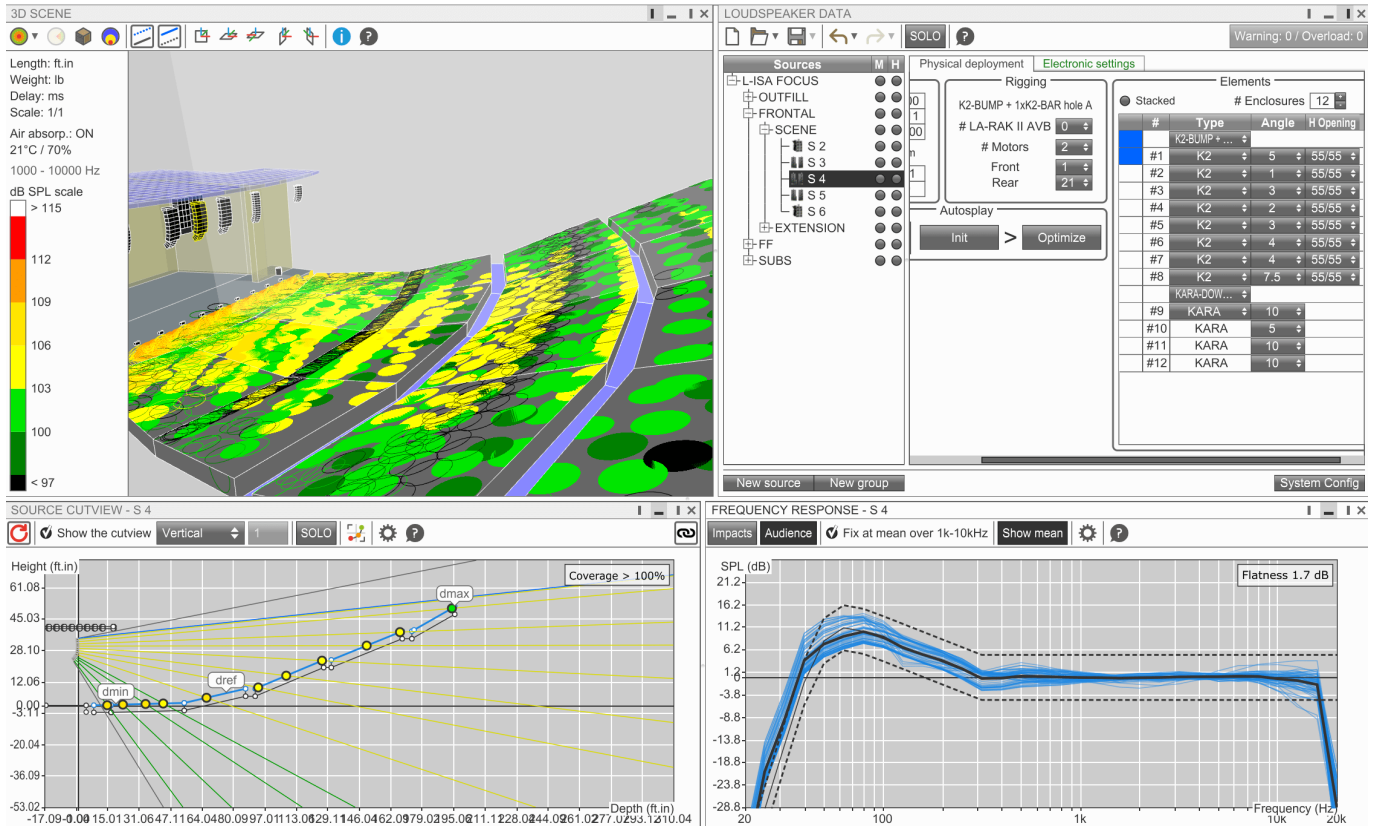
-3dB

8)9)

3

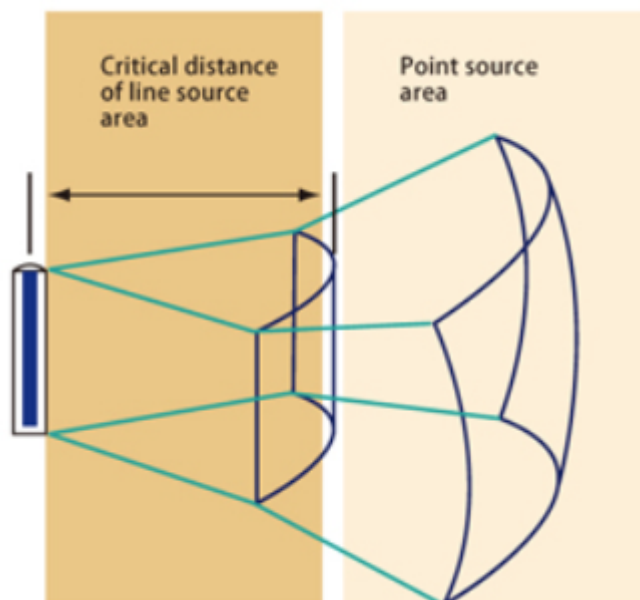
10)





- Yamaha : <https://europe.yamaha.com/en/products/proaudio/software/ys3/index.html>

- 1)
- Peak RMS
- 2)
- 3)
- 가
- 4)
- 5)
- 6)



7)

8)

700watt

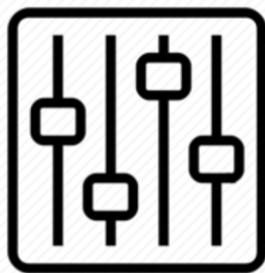
50m

9)

Yamaha

350W

10)



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