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.....	1
.....	1
.....	1
.....	1
.....	5
<b>Reference</b> .....	8
.....	10
.....	10
.....	10
.....	10



가 가

Dolby 85dB RMS Dolby Volume ,

MaxSPL

가 가 dB SPL

Dolby Volume/SMPTE RP200 0VU = 85dB SPL 85dB SPL~MaxSPL

EBU 18dB , 85dB SPL+18dB SPL=103dB SPL  
MaxSPL

MaxSPL 1m , 1m  
MaxSPL 103dB SPL<sup>1)</sup>

1m ,

DAC<sup>2)</sup>

가 가  
가

3)

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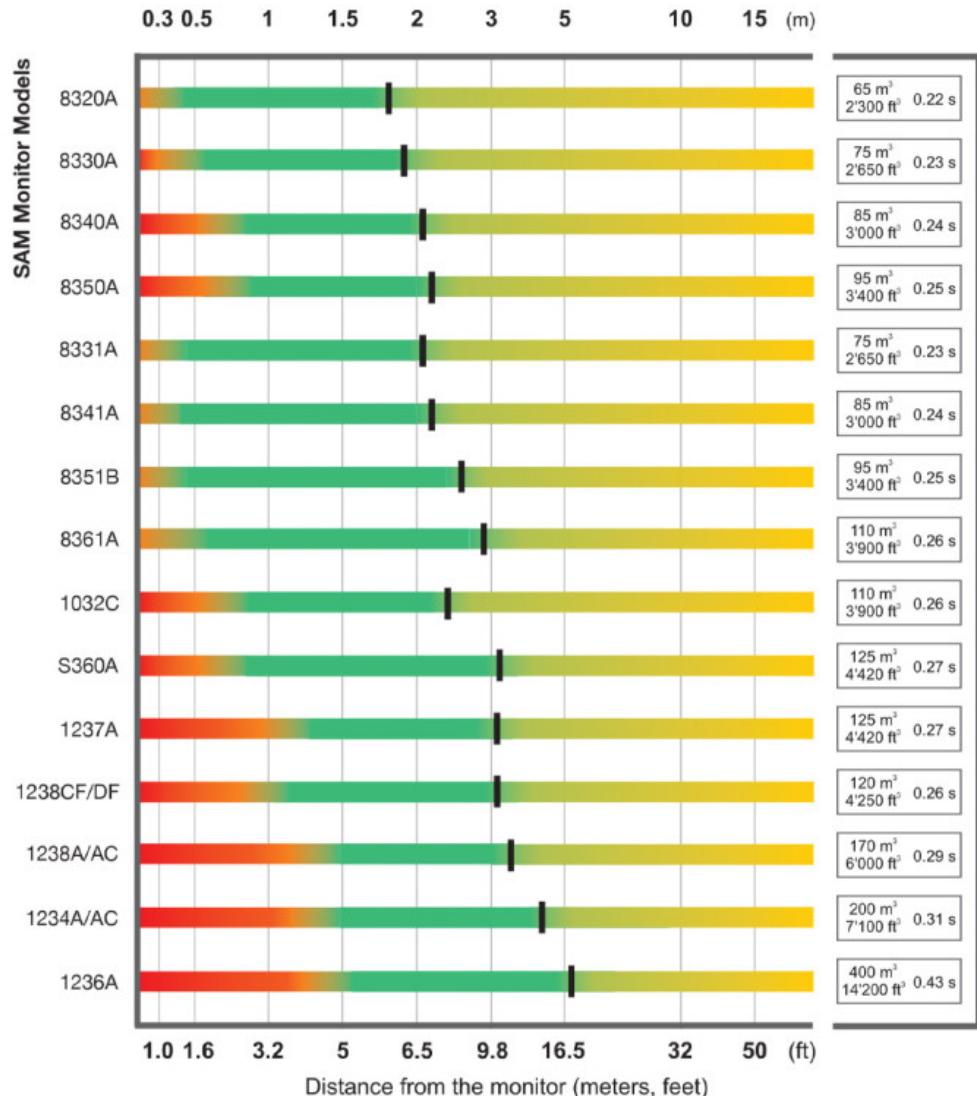
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#### Room volume

55  $m^3$   
1'950  $ft^3$  0.21 s

#### Room reverberation time (RT60)

#### Not Recommended Distances

When the distance to the monitor is too short, summing of sound from multiple drivers is not happening as designed, and this affects the flatness of the frequency response. A flatter and more stable frequency response is obtained by a larger distance.

#### Direct Sound Dominates

Within this distance the direct sound from the monitor has a higher level than the reverberant sound in the room. Placing the monitor within this distance range is advantageous in minimizing the tendency of the room reverberation to change the character of the monitored sound colour and affect the precision of stereo imaging. The level of the direct sound relative to the reverberant sound progressively reduces as the distance to the monitor increases.

#### Critical distance

The critical distance is the distance where the direct sound from the monitor and the reverberant sound in the room have equal level in midrange frequencies (approximately between 200 Hz and 4 kHz). The critical distance is affected by the room volume, the room reverberation time (referred to ITU-R BS.1116-1 Recommendation), and the directivity of the monitor.

#### Reverberant sound dominates

At these distances the reverberant sound in the room has a higher level than the direct sound from the monitor. This balance progressively increases as the distance from the monitor increases. The monitor can be used in these distances, but the sound character is strongly affected by the reverberation characteristics of the room, and this has a progressively increasing effect on the sound colour and stereo imaging accuracy.

Monitors	-6 dB LF Extension	Maximum SPL at 1 m <sup>(1)</sup>	Room volume up to	Subwoofers for 2 channels	Subwoofers for >5-channel Immersive
8010	67 Hz	96 dB	55 m <sup>3</sup>	7040	7050
8020 / 8320	56 / 55 Hz	100 dB	65 m <sup>3</sup>	7050 / 7350	7350
8030 / 8330	50 / 45 Hz	104 dB	75 m <sup>3</sup>	7050 / 7350	7360
8040 / 8340	41 / 38 Hz	105 / 110 dB	85 m <sup>3</sup>	7360 / 7370	7370
8050 / 8350	32 / 33 Hz	110 / 112 dB	95 m <sup>3</sup>	7370	7380
8331	45 Hz	104 dB	75 m <sup>3</sup>	7360	7370
8341	38 Hz	110 dB	85 m <sup>3</sup>	7370	7370
8351	32 Hz	111 dB	95 m <sup>3</sup>	7370	7380
8260	23 Hz	113 dB	110 m <sup>3</sup>	7380	2x 7380
1032	33 Hz	114 dB	110 m <sup>3</sup>	1-2 x 7380 <sup>(2)</sup>	2-3 x 7380 <sup>(2)</sup>
S360	36 Hz	118 dB	125 m <sup>3</sup>	2 x 7380 <sup>(2)</sup>	3 x 7380 or 1 x 7382 <sup>(2)</sup>
1237	32 Hz	118 dB	125 m <sup>3</sup>	2 x 7380 <sup>(2)</sup>	3 x 7380 or 1 x 7382 <sup>(2)</sup>
1238DF	50 Hz	117 dB	120 m <sup>3</sup>	2 x 7380 <sup>(2)</sup>	3 x 7380 or 1 x 7382 <sup>(2)</sup>
1238 / AC	30 Hz	121 dB	170 m <sup>3</sup>	3 x 7380 or 1 x 7382 <sup>(2)</sup>	1-2 x 7382 <sup>(2)</sup>
1234 / AC	29 Hz	125 dB	200 m <sup>3</sup>	7382 <sup>(2)</sup>	2 x 7382 <sup>(2)</sup>
1236	17 Hz	130 dB	400 m <sup>3</sup>	2 x 7382 <sup>(2)</sup>	2-3 x 7382 <sup>(2)</sup>

(1) Maximum short term sine wave acoustic output on axis in half space, averaged from 100 Hz to 3 kHz at 1 m distance.

(2) Additional subwoofers of the same type may be required in a larger room with bass heavy program material.

(3) Subwoofers are not necessarily required for a 1236 installation as these monitors are already full range. For immersive systems, subwoofers can be used to reproduce the LFE channel.

Subwoofers	-6 dB LF extension	Maximum SPL at 1 m *	Room volume up to
7040	30 Hz	100 dB	65 m <sup>3</sup>
7050	24 Hz	103 dB	75 m <sup>3</sup>
7350	22 Hz	104 dB	75 m <sup>3</sup>
7360	19 Hz	109 dB	85 m <sup>3</sup>
7370	19 Hz	113 dB	110 m <sup>3</sup>
7380	16 Hz	119 dB	130 m <sup>3</sup>
7382	15 Hz	129 dB	400 m <sup>3</sup>

\*) Maximum short-term sine wave acoustic output on axis in half space, averaged from 30 Hz to 85 Hz at 1 m distance.

MaxSPL

(Genelec)

## Reference

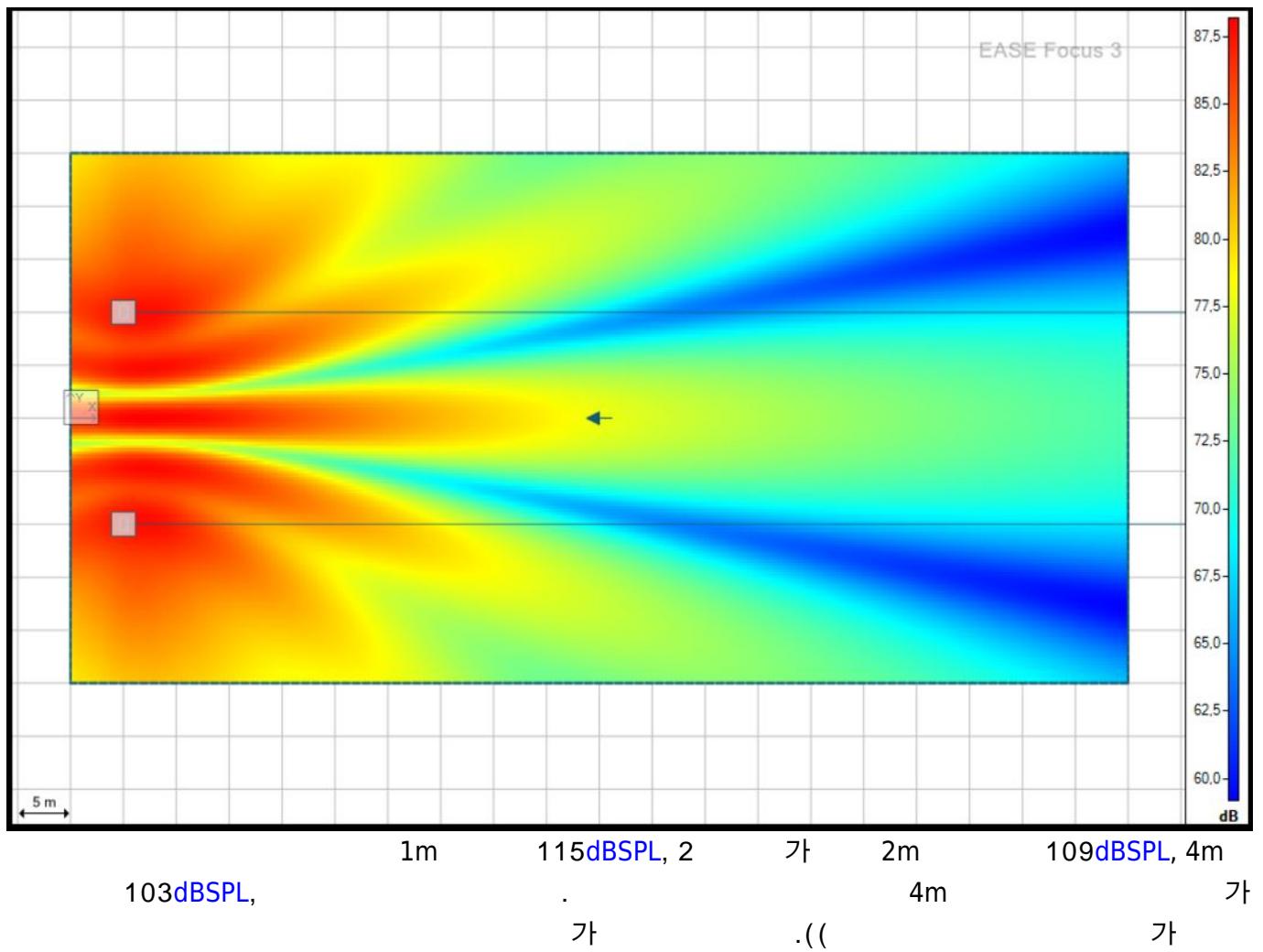
<https://www.genelec.com/correct-monitors>

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1)

SMPTE RP200 105dB SPL) 85dB SPL RMS  
 가 MaxSPL 115dB SPL  
 ? MaxSPL 115dB SPL 1m  
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 가 ,

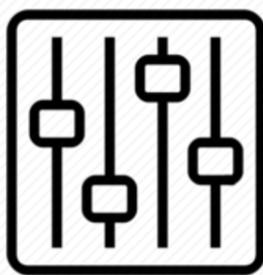


2)

Digital to Analog Converter

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LED	TV	.	40	FHD	TV	가
.	TV	5m	,	가	, 1m	,
		,		1m		20
FHD	TV	1m				



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