

# TheatreStage

Over the decade, a new generation of theatre technicians have taken over the reins of lighting and sound. This segment seeks to draw attention to what, how and where new technological advances are being introduced to the stage. Along with traditional fly systems, a theatre will now utilise the latest hardware and software innovations in lighting, visual and audio, and also in communications and management, all of which contributes to the overall effect of the performance.

## Outline Butterflies Performs The Opera “Jung-geun Ahn, a Great Korean Patriot”



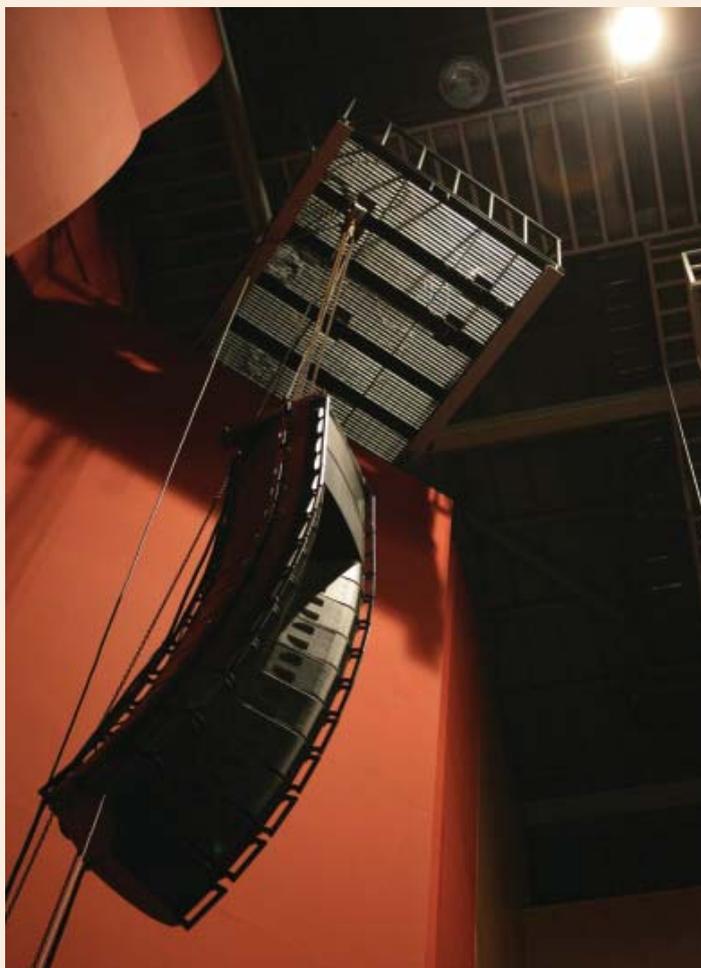
**Korea:** Outline speakers were the star performers for the commemoration of “Jung-geun Ahn, a Great Korean Patriot” a great opera which played at the 4,300-seat Olympic Hall in Seoul, Korea. The grand opera showed about the life and about ideology of Jung-geun Ahn, who was one of Korea’s great heroes and who also was a pacifism person. The opera was of a huge scale combining artistry, a full orchestra and a choir in a musical extravaganza which composed of no less than four Acts.

Although it may seem to be performing in the sidelines, the **Butterfly** vertical line array - the famous loudspeaker



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system manufactured by **Outline of Hebsiba Multimedia** – played a key role in the opera as the important front-of-house system for the audience. The system was operated by **WAY AUDIO**, a famous rental company in Korea whose debut use of the Outline Butterfly linearray speaker system together with a **DiGiCo SD8** - which was their newest sound console - was why the opera's clear sound and speech was unrivalled in excellence and had many people amazed about it. An Outline system comprising 20 **Butterfly C.D.H 483 Hi-packs** and 4 **C.D.L 1815 Low-packs**; all powered by **T-series** amplifiers through a **GENIUS 26 DSP controller**. At the stage **H.A.R.D 212SP** monitor speakers was used as stage wedges. Front of centre had a pair of **AKG C480 B** microphone - setting by method of XY Stereo configuration. In addition, picking up at stage 'back side' was a pair of **RODE NT-2** microphones. FOH engineer Soo-Yong Lee of WAY AUDIO commented: "Opera is different from the regular concert so it doesn't need very powerful sound as well so I thought that it didn't need much of subwoofers and the Low-Pack speakers which were suitable and was enough for this performance. The Outline Butterfly has dramatic power, higher clarity, and abundant sound that gave us great emotion through the sound." The fine tuning of the Butterfly rig was entrusted to also Soo-Yong Lee, a system engineer with considerable experience in the use of the Outlinearray along with the relative aiming software, the **Outline VIP** (Vector Implementation Protocol). [www.outline.it](http://www.outline.it)



**MAIN SOUND**

Main Speaker - 20 **C.D.H483**, 4 **C.D.L1815**; DSP controller - 2 **GENIUS 26** ; Power Amplifiers - 16 **T-Series**; Side-fill monitor speaker - 2 **H.A.R.D 212SP**; Console -**DiGiCo SD8**; Player - **Denon DN-D4500**; Microphones - **Sennheiser E300/ MKH20P48, SHURE SM57/KSM32**

