

For further media information please contact
Isabella Niffeler, PR Manager
i.niffeler@nti-audio.com
+423 239 60 60

January, 2011

IAAF World Championship Stadium commissioned with XL2

Daegu, South Korea. The installer Sovico opts for the XL2 Audio and Acoustic Analyzer to commission the new announcement system in the Daegu stadium, hosting the Athletics World Championships 2011. The polarity, sound level and speech intelligibility functions of the handheld XL2 Analyzer simplified the system verification and saved time.

Sovico commissioned the new announcement system in the Daegu stadium with the XL2 Audio and Acoustic Analyzer. First, all audio signal lines have been measured for noise and signal loss. Then the installed line arrays in the 66,000-seater stadium have been tested for polarity. The Minirator MR-PRO served as the signal generator providing the dedicated test signals directly to the main board. The detailed polarity measurement in octave band resolution from 125 Hz to 8 kHz displayed the individual polarity of woofers, midrange and higher frequency speakers at one glance. Next, the speaker levels have been set to a uniform sound level of 85 dBA and the frequency response optimized.

Speech Intelligibility Passed

After completing the basic set up, the overall speech intelligibility of the evacuation system had to be measured. The NTi Audio TalkBox generated the STI-PA test signal directly into the speakers' microphone. Thus the complete signal chain could be verified at all accessible areas throughout the stadium. The XL2 Analyzer measured a speech intelligibility in the range of 0.60 – 0.70 STI; on average 0.66 STI, well above the minimum 0.45 STI requirements. These reading confirmed the superior quality of the installed announcement system.

XL2 reduced Commissioning Time

Gun Chang Moon, acoustic engineer of Sovico, summarized the project: "We had to take more than 200 STI-PA measurements and 250 polarity tests of speakers. With the help of the XL2 Analyzer the measurements could be completed quickly and accurately. The automatically generated test reports simplified the detailed documentation. The handheld XL2 is the dedicated sound level meter and acoustic analyzer for such installation projects."

The IAAF (International Association of Athletics Federations) assigned Daegu, South Korea, to host the World Championships 2011. Thus the Korean AV-installer Sovico inspected the Daegu Stadium four years ago and verified the technical requirements for a new safety and announcement system supporting this worldwide broadcasted event. Sovico provided and installed the new differential drive line array system for improved speech intelligibility.

NTi Audio AG
info@nti-audio.com
+423 239 6060

NTi Americas Inc.
americas@nti-audio.com
+1 503 684 7050

NTi Japan
japan@nti-audio.com
+81 3 3634 6110

NTi China
china@nti-audio.com
+86 512 6802 0075

NTi Audio Prague
czech@nti-audio.com
+420 2 2099 9992

www.nti-audio.com

In the last months the engineers Moon and Han commissioned the evacuation system together the American specialists SIA Acoustics and WHJW.

The IAAF World Championships are held on 27 August – 4 September 2011.

Many thanks to Sang Young Han and Gun Chang Moon of Sovico for this application report.

Read more at
www.nti-audio.com/XL2
www.sovico.co.kr
www.daegu2011.org

For more visit NTi Audio at www.nti-audio.com/XL2.

About NTi Audio

NTi Audio AG develops highly qualified and customized measurement solutions for the pro audio and telecommunications industry. NTi Audio's main product lines are the handheld EXEL line, the A-Series audio analyzers, the RAPID-TEST production line test systems as well as complete turnkey tests solutions based on PureSound – a unique defects analysis technology. The headquarters of NTi Audio are in the Principality of Liechtenstein (Europe). Factory offices also include NTi Americas Inc in Portland, NTi China in Suzhou, NTi Japan in Tokyo and NTi Audio Prague. NTi Audio AG is the new company name of the earlier NTI AG.

Information for journalists:

Hi-res product pictures are available at the NTi Audio website - press area:

www.nti-audio.com/press