

V Series in Russia 2018

Luzhniki Stadium is the national stadium of Russia, located in its capital, Moscow. Its total seating capacity of 81,000 makes it the largest football stadium in Russia and one of the largest stadiums in the World. It is the main stadium for FIFA World Cup Russia 2018, and was originally built to host the first nationwide summer Spartakiad in 1956. Since then, Luzhniki Stadium has hosted a multitude of major sporting and cultural events, including the 1980 Summer Olympics, and concerts featuring some of the World's greatest musicians.



Work to rebuild Luzhniki Stadium for Russia 2018 began in 2013. Inside, the stadium was totally refurbished, and the audio system was completely changed and adapted in order to comply with the strict requirements of FIFA.

The opening/closing ceremonies and the Cup Final will be hosted by the newly renovated Luzhniki Stadium. RAM Audio and their Russian partners Russian Sound Systems lead by Vladimir Samuskevich completed the installation of 80 units of RAM Audio V Series amplifiers, in it's fully equipped version, including: Ethernet, DSP, Dante, standby, and impedance monitoring. All amplifiers are controlled from the central control point using the RAM_OCS software. A complex structure of amplifiers distributed in different zones has been created for the total control of them, allowing a real time check of all the McCauley ILA412/MLA3-2 speakers, 216 units assembled into 22 clusters. All the DSP presets and configuration was created specifically in situ for this installation, using RAM_OCS software.

The numbers are superb: 80 V series amplifiers which makes a total of 320 channels of 3000W each one: 960.000W of pure V series power.

All equipment - RAM Audio power amplifiers, monitoring and signal redundancy systems, media converters, routers and matrixes (BSS), control panels (Midas) -connected by an optical cable. This allows the ability to control the configuration of all systems via the tablet via Wi-Fi. You can go anywhere on the field or in the stands to achieve the desired sound. , - emphasizes Nikolai Usov, head of the design and installation department of Russian Sound Systems.

Nikolai says: "Computer programs for monitoring each of the devices have already been implemented. Using RAM_OCS, now each of the 80 amplifiers, located at a height of 45 metres, can be watched while sitting in the camera room. The parameters of each individual device or each group of amplifiers can also be adjusted remotely."

He also comments: "In the programming interface of RAM OCS, we have developed a special window that shows only malfunctions: if something happens, the amplifier number and the nature of the malfunction immediately appear. Technologies enable the operator to navigate in the environment and make decisions quickly, almost like a surgeon. You can see a picture of the functioning of the entire system and promptly adjust the overall picture at the expense of other devices and nodes."



FIFA WORLD CUP
RUSSIA 2018

RAM OCS

Dante

