

OUTDOOR FESTIVAL AND CONCERT MONITORING

OVERVIEW

Music festivals and concerts require large stages that must not only support musicians, but also the impressive lighting and sound systems expected from high profile events.



THE APPLICATION

Temporary structures for special events are not only becoming larger and more complex, they are also more commonplace and have greater loads applied to them. In addition, they are being exposed to ever-changing and less-predictable weather patterns. Accurate data is required for both the build and setup process as well as during the event. Monitoring of actual rigging loads, weight distribution and wind speed allows operators to make informed decisions regarding the stability of a structure. Constant monitoring and logging of this load and wind speed data for future reference is therefore essential.

Shackle



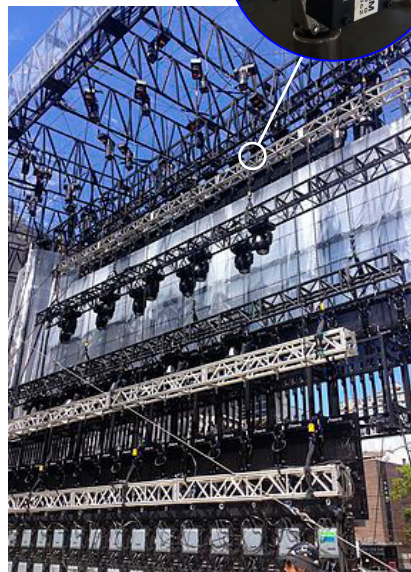
Wireless wind speed sensor



THE SOLUTION

A set of BroadWeigh shackles are used to monitor key points on the stage system such as chain hoist locations, grid hanging points and tensioned steel tie lines.

The values from all of the load cells can be gathered using a single PC running the BroadWeigh logging software. Each input can be individually zeroed allowing riggers to monitor not only the total loads but also the changes in load during adverse weather conditions as well as allowing a user to monitor the inertial effects of multiple moving-head lights. This can ensure the structure stands firm during the wettest and wildest of festivals.



Load cell monitoring



Handheld display