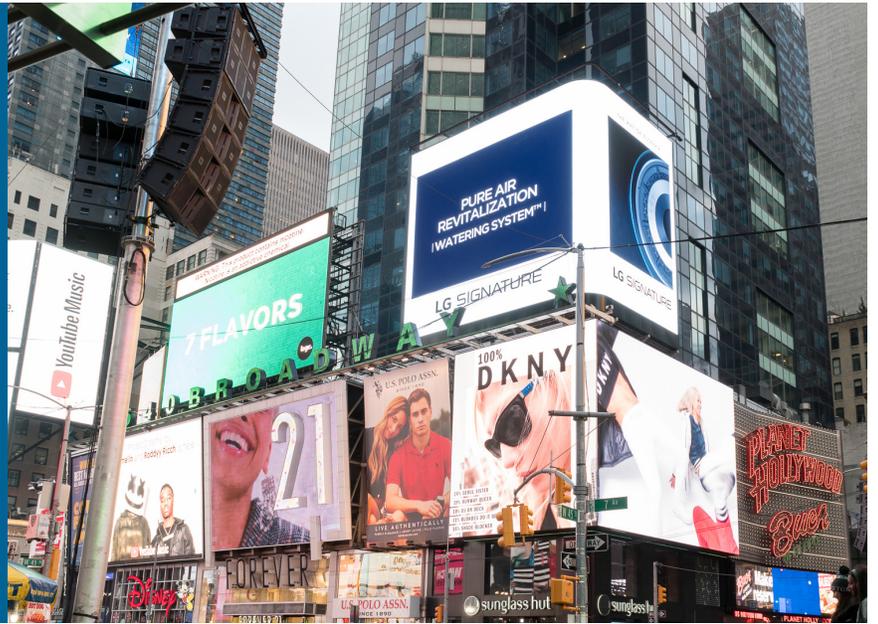


## CASE STUDY

# LIVE ENTERTAINMENT



### OPPORTUNITY

Provide extraordinary audio from multiple live performance stages, filling the streets of NYC with sound, while broadcasting to over 1 billion viewers, in a range of weather conditions.



### SOLUTION

Maryland Sound International selected JBL VerTec, VTX and CSX speakers along with Crown amplifiers and Studer Vista 5 mixing consoles to deliver a premium audio solution in this demanding scenario.

“

Maryland Sound International has been at the control station for over 20 years providing a premium solution through cold wind, rain, snow, confetti and unbelievable crowds.”

### NEW YEAR'S EVE TIMES SQUARE, NEW YORK

The New Year's Eve Celebration and Ball Drop in New York's Times Square is a tradition with over a 100-year history. Maryland Sound International has been at the control station for over 20 years providing a premium solution through cold wind, rain, snow, confetti and unbelievable crowds. They're prepared to bring the ball down at midnight no matter what gets thrown at them.

The complex scale of this event isn't out of the ordinary for this crew who has standout events like presidential inaugurations on their resume. What is unique with this event is while they are simultaneously weathering the elements and providing live reinforcement to multiple stages, they are also broadcasting to the over 1 billion people. The latter dictates so much of the approach, even more than the on-site logistics, especially in such a busy, chaotic and tightly regulated space.

MSI selected a range of HARMAN Professional products to get the job done. JBL VerTec, VTX and CSX speakers make up the bulk of the coverage and the public spaces, deployed on the signature Maryland Sound towers, providing multiple fly points to get sound around city corners in an incredibly small footprint. Crown amplifiers are networked throughout and live in the base of each tower, allowing configuration, monitoring and control remotely using performance manager.

The signal chain itself is very impressive. In short, it is an incredibly well deployed Dante network starting from the Control Tower, located between West 43rd and 44th streets, the network goes out overhead in two directions to the first set of towers, and then it continues onto each tower up to the 47th street end of the Square and then loops back through the towers on the opposite side of the street. This helps to minimize the effect that something like a broken cable or loss of power would have on any one location.



AKG

AMX

ESS

CROWN

dbx

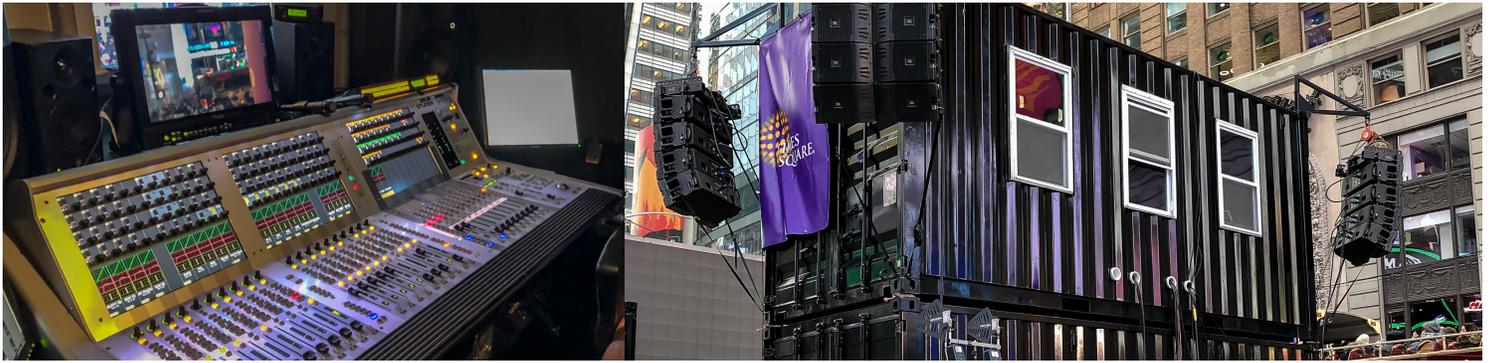
JBL  
PROFESSIONAL

lexicon

Martin

Soundcraft

STUDER



“

Each zone is equipped with 2 flown JBL VerTec VT 4880 subwoofers with 4 VerTec 4889 3-way elements. This configuration pushes out a lot of bang for the buck and such a small footprint.”



#### CONTACT

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The Control Tower handles all of the system monitoring, control and configuration, along with directing all of the audio traffic coming and going and providing key mixes to the PA system, broadcast trucks, and any other destination that needs feeding. The primary mix is handled by a Studer Vista 5 Mixing Console.

The sound in each zone is extremely well done. Most of the hangs consists of two flown JBL VerTec VT 4880 Subwoofers with four VerTec 4889 3-way Line Array elements below. The 4880 is a dual 18" box, and the 4889 has two dual voice coil woofers, four dual voice coil 8" mid-range drivers, and three 1 1/2" throat diameter high frequency compression drivers in each box.

#### PRODUCTS USED

**JBL VERTEC VT4880 SUBWOOFERS**

**JBL VERTEC VT4889 3-WAY LINE ARRAY ELEMENTS**

**CROWN AMPLIFIERS**

**STUDER VISTA 5 MIXING CONSOLES**

#### ABOUT HARMAN

HARMAN ([harman.com](http://harman.com)) designs and engineers connected products and solutions for automakers, consumers, and enterprises worldwide, including connected car systems, audio and visual products, enterprise automation solutions; and services supporting the Internet of Things. With leading brands including AKG®, Harman Kardon®, Infinity®, JBL®, Lexicon®, Mark Levinson® and Revel®, HARMAN is admired by audiophiles, musicians and the entertainment venues where they perform around the world. More than 50 million automobiles on the road today are equipped with HARMAN audio and connected car systems. Our software services power billions of mobile devices and systems that are connected, integrated and secure across all platforms, from work and home to car and mobile. HARMAN has a workforce of approximately 30,000 people across the Americas, Europe, and Asia. In March 2017, HARMAN became a wholly-owned subsidiary of Samsung Electronics Co., Ltd.



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