

For expanded coverage of this month's topic "Audio," you can find the following papers in the Digital Edition. Visit the SMPTE digital library at <http://journal.smpte.org> to access the issue and to read these additional papers.

Designing, Planning, and Executing Immersive Audio for the 2016 Rio Olympics

By Michael Babbitt

NBC Universal, Comcast Cable, and Dolby Laboratories built, tested, and optimized the Dolby Atmos production for immersive audio. The 2016 Rio Olympics Opening Ceremony was then delivered in 4K/HDR to select VIP viewing parties across the U.S. via the Comcast Xfinity platform. Finally, the 4K/HDR was distributed to several multichannel video programming distributors along with an ATSC 3.0 over-the-air test

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channel on WRAL in Raleigh, North Carolina. This is that story.

Celebrating the Launch of 8K/4K UHD TV Satellite Broadcasting and Progress of Full-Featured 8K UHD TV in Japan

By Satoshi Hara, Akira Hanada, Ichie Masuhara, Takayuki Yamashita, and Kohji Mitani

NHK started the world's first test satellite broadcasting of 8K/4K UHD TV, called Super Hi-Vision (SHV), on 1 August 2016. Coverage of the Rio Olympic games and many fascinating 8K and 4K programs was broadcasted to 8K prototype receivers installed at all NHK's local stations in Japan. This paper introduces the SHV test broadcast system, especially the program playout and transmission system and the 8K/4K receivers. In addition, it describes the progress made so far in developing a full-featured 8K system that has a 120-Hz frame frequency.

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