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Sound of Music: On Stage, On the Small Screen

Live TV production overcame unique challenges

BY MARK R. SMITH

NEW YORK—NBC's live broadcast of the Rodgers & Hammerstein classic "The Sound of Music" last month did more than garner high ratings. It also served as a testament to the challenges involved in elaborate live stage productions—a type of program little seen on national television over the past 50 years.

The crew that set up, rehearsed and pulled off "The Sound of Music Live!" wanted to "create a hybrid, a live TV broadcast that looked like a movie, with no audience," according to Robert Dickinson, the production's lighting designer.

They've deemed it a success with few noticeable glitches, despite the pressure of a primetime, three-hour, major network

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A cameraman follows Carrie Underwood on "The Sound of Music Live!" set.

Mobile Tops CES Agenda

Show to also focus on UHDTV, content and policy

BY GARY ARLEN

LAS VEGAS—While curved TV screens, Ultra High Definition TV, evolving display technologies and Internet-connected "smart" TVs will generate buzz at the 2014 International CES, the underlying context at the show will be the integration of content into technology platforms, second screen developments, diverse interfaces and the role of cloud distribution.

The expected turnout (matching or exceeding

last year's 152,000) at the event, which runs here, Jan. 7-10, will have a chance to see "better pixels" (as Dolby calls its approach to new imaging technology), more autostereoscopic (no glasses) 3D and a dollop of mobile DTV products.

They'll hear from Tom Wheeler, in his first appearance at a major industry event since becoming FCC Chairman, the other four commissioners, the chairwoman of the Federal Trade Commission and from the CEOs of

Yahoo, Sony, Cisco and Intel. More than three dozen

CES, PAGE 18



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PRODUCTS & SERVICES MARKETPLACE

LED FRESNEL

Zylight's new F8 LED Fresnel lighting instrument consumes only 100 Watts, but provides the illumination output of a conventional 1 kW incandescent fixture. It's available in tungsten (3200 degrees K) or daylight (5600 degrees K) color temperatures and is fully dimmable.



The F8 LED Fresnel is equipped with an 8-inch Schott glass lens and has a patented focusing system for spot and flood operations. The instrument features a color rendering index

of 97 or higher and offers an adjustable beam spread between 16 and 70 degrees. It ships with barn doors and a yoke mount and other accessories are available from the manufacturer.

For additional information, contact Zylight at 978-244-0011 or visit www.zylight.com.

DUAL 7-INCH MONITOR

Marshall Electronics' compact dual 7-inch M-LYNX-702 LCD monitor features both SDI and HDMI loopthrough inputs and is designed for use in control rooms, flypacks, mobile production units and any other application where multiple monitor inputs are required.

The 3RU monitor offers a viewing angle of 150 degrees on each of its two 16:9 view screens. Resolution is 1024 x 600 and special features include overscan, audio de-embedding, 1:1 pixel mapping, provision for H and V delay, and more. The M-LYNX-702 is also equipped with LED tally indicators and front panel headphone jacks.

For additional information, contact Marshall Electronics at 800-800-6608 or visit www.marshallmonitors.com.



MULTIFORMAT MULTIDISPLAY VIDEO SIGNAL MONITOR

Leader Instrument's new LV5490 SD/JD/4K multiformat multidisplay picture and signal monitor supports the full range of standard video production and transmission standards from 525- and 625-line SD up to 3840 x 2160 and 4096 x 2160. It's equipped with four multiformat input channels and provides crisp, clear images on its 1920 x 1080 9-inch flat panel display screen.



The monitor's multidisplay capability allows precise matching of studio or outside broadcast cameras and it can also serve as a picture monitor for field work. It provides a wide selection of monitoring and testing functions, including waveform, vector, SDI signal data analysis, cyclic-redundancy check error, embedded audio error, a timing display and more.

For additional information, contact Leader Instruments at 800-645-5104 or visit www.leaderamerica.com.

COMPACT CMOS VIDEO CAMERA



Ikegami's compact HD 3-CMOS sensor HDL-23 POV camera uses progressive scan imagers to provide a superb color reproduction and high performance. Its small physical size and weight make it ideal for sports applications or where an inconspicuous camera is desired.

The HDL-23 is equipped with a DC-powered CCU and may be controlled by Ikegami's traditional broadcast remote control panels.

For additional information, contact Ikegami at 201-368-9171 or visit www.ikegami.com.

LED REFERENCE LUMINANCE STANDARD

Saelig's GL OptiLight LED 27 reference illumination standard is designed to accurately calibrate video display and monitoring systems as well as serve as a reference for calibrating cameras. It combines a set of LEDs with an integrating sphere to provide a high level of illumination homogeneity and employs an electronic control system and thermal stabilization to provide a precision illumination reference.

The GL OptiLight LED 27 can emulate almost any color source when set up with the LED control panel or adjusted by a PC via a USB connection. Its software allows a wide range of light coordinates to be created and stored to address users' needs and also includes preset coordinates for several lighting sources.

For additional information, contact Saelig at 888-772-3544 or visit www.saelig.com.



20-INCH 4K TABLET

Panasonic's new UT-MB5 Toughpad tablet provides 4K resolution on a large 20-inch screen, making it ideal for video production applications. The tablet was designed for professional applications and sports a 3840 x 2560 pixel display. It's powered by an Intel Core i5 vPro processor and runs under the Windows 8.1 Pro operating system.

The tablet offers wide viewing angles and a 15:10 aspect ratio and a 10-point multitouch user input system. It may also be equipped with an optional Panasonic Electronic Touch Pen to provide pixel-level "pointing" precision and a "pen-and-paper" user input. The UT-MB5 also includes a 1280 x 720 pixel built-in camera.

For additional information, contact Panasonic at 877-803-8492 or visit www.panasonic.com.