

## **Wohler at IBC2009**

### **Exhibiting With HHB in Stand 8.E54**

#### **Wohler Technologies**

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### **Company Background:**

Wohler Technologies Inc. offers a comprehensive range of products that simplify analog and digital source monitoring in facilities of all sizes and complexity. Wohler Technologies was founded in 1987 and, through constant innovation, continues to be a world leader in providing in-rack audio, video, and data monitoring and closed captioning solutions for the broadcast, motion picture, and professional audio/visual markets. More information about the company and its technologies is available at [www.wohler.com](http://www.wohler.com).

### **Wohler at IBC2009:**

At IBC2009 Wohler will be showcasing a range of products that offer flexible, state-of-the-art processing and monitoring in convenient and compact designs. Highly adaptable in meeting broadcasters' current and future needs, Wohler products provide key functionality even in the most space-constrained production applications. The company's wide array of products includes versatile 16-channel audio monitors that accommodate a mix of inputs and outputs for SD, HD, and 3G operations; HD monitors for all variety of signal types; intuitive touch-screen systems that simplify video monitoring and routing while providing critical functional enhancements; a closed-caption encoder/decoder bridge that supports all leading standards; and analog and digital audio monitoring systems and level meters that together accommodate virtually every audio input type.

### **New Wohler Products on Display at IBC2009:**

#### **AMP1-E16-3G 16 Channel Multirate SDI Audio Monitor With Dolby® Capability**

With dual selectable SD/HD/3G inputs, this is Wohler's first 1RU 16-channel 3G audio/video monitor with Dolby® E as well as being Dolby Digital Plus ready. The straightforward control

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interface and overall look and feel mirrors that of Wohler's new AMP2-E16-3G 16 channel audio monitor. Like the AMP2-E16-3G, the new AMP1-E16-3G provides monitoring for up to 16 channels of embedded audio within a single multirate SDI signal, thus serving as an ideal solution for complex multichannel and surround applications. Two of the three OLED screens can monitor 16 channels of audio simultaneously with flexible options for high-resolution 180-segment audio metering, while the third screen may display video or data. The screens also support the systems' intuitive and easy-to-use interface for setup and configuration of monitor features. Integrated loudness measurement and dialnorm data are displayed to alert the operator if signals fall out of compliance with ITU-1770/1771 standards.

The fully digital architecture of the AMP1-E16-3G features high-fidelity class-D amplifiers; flexible assignment of signals allows the operator to configure the monitor to the specific needs of a production. User-selectable metering functions and eight user-defined presets allow the unit to be easily reconfigured.

**Product Photo:** [www.wallstcom.com/Wohler/AMP1-E16-3G.zip](http://www.wallstcom.com/Wohler/AMP1-E16-3G.zip)

### **AMP2-16-3G/AMP2-E16-3G 16 Channel 3Gbs Audio Monitors With Dolby® Capability**

Just as the AMP2-16M™ was introduced to future-proof broadcasters for 16 channels of audio, these models address broadcasters' migration to HD and their ability to handle higher-capacity 3G video transport infrastructures. The AMP2-E16-3G decodes Dolby® E and is Dolby Digital Plus ready.

Wohler's AMP2-16-3G and AMP2-E16-3G provide simultaneous display for up to 16 channels of embedded audio within a single multirate 3G signal. Equipped with five card slots, users can "pick and mix" their inputs and adapt the units as their needs evolve. This same functionality also enables users of Wohler's AMP2-16M system, available with AES and Dolby® E options, to upgrade their systems with the addition of a 3Gbps card.

Featuring high-fidelity class-D amplifiers, the monitors provide unsurpassed near-field monitoring for any mix of stereo and mono sources in a compact 2RU design. Included are demuxed outputs of eight AES pairs on BNC connectors as well as a reclocked loop output of the 3G signal. As well as featuring some standard scales and ballistics including AES, BBC, and Nordic, the 210 segment programmable bargraph meters also benefit from phase, loudness, and dialnorm data displayed to alert the operator if signals fall out of compliance with ITU-1770/1771 standards.

**Product Photo:** [www.wallstcom.com/Wohler/AMP2-16MSDI.zip](http://www.wallstcom.com/Wohler/AMP2-16MSDI.zip)

**Link to Datasheet:** [www.wohler.com/datasheet/AMP2-16MSDI.pdf](http://www.wohler.com/datasheet/AMP2-16MSDI.pdf)

### **RMT Single-Screen Dual-Input SD/HD LCD Monitors**

The new RMT range of single-screen SD/HD LCD monitors builds on the success of Wohler's RM range of multiscreen HD monitors, offering the same industry-leading performance and popular feature set, along with dual inputs, a waveform display, and eight channels of audio bar graph metering — all provided in a compact design and at a very competitive price point.

The four new systems handle composite/S-video/component (HD/SD) and VGA/DVI-D/HDMI video, with the 15-inch **RMT-150-SD** and 17-inch **RMT-170-SD** featuring two SD-SDI inputs and an SD-SDI active loop-through and the 17-inch **RMT-170-HD** and 20-inch **RMT-200-HD** featuring two auto-sensing HD/SD-SDI inputs with an HD/SD-SDI active loop-through output.

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Designed as fully inclusive solutions, RMT monitors support high-resolution imaging with built-in NTSC and PAL autosensing. Each screen can display eight channels of PPM over VU audio level meters, IMD, safe areas, frame marks, cropping, switchable aspect ratios, and built-in color bars. RMT monitors are available as rack-mount or table-mount systems, or they can be used with a standard VESA mount.

**Product Photo:** [www.wallstcom.com/Wohler/RMTSeriesDI.zip](http://www.wallstcom.com/Wohler/RMTSeriesDI.zip)

### **RM Dual-Input LCD Monitoring Series With Waveform Display**

Wohler has expanded its RM LCD video monitoring series with three new models. The new **RM-2443W-2HD** is 2RU in height, incorporates four widescreen LCDs that measure 4.3 inches in size, and features 480x270 resolution with 16.7 million colors. The **RM-3270W-2HD** is a 3RU system featuring two 7-inch widescreen LCDs, each with 800x480 resolution and 16.7 million colors. The **RM-4290W-2HD** measures 4RU in height and incorporates two 9-inch widescreen LCDs with 800x480 resolution and 16.2 million colors. A fourth monitor currently in development, the **RM-25104W-HD**, is a 5RU SD/HD system featuring dual high-resolution (1024x768) widescreen LCDs, each of which measures 10.4 inches.

Ideal for use in mobile trucks, news and transmission control rooms, and duplication and post-production facilities, each new RM series dual-input LCD rack includes two auto-sensing HD/SD-SDI and analog composite inputs with support for embedded audio, eight-channel audio meters (VU and PPM), and display features including ANC time code, IMD, tri-color tally with interfaces to TSL and IMAGE VIDEO systems, H/V delay, underscan, safe area markers, and aspect ratio and blue-only support. In addition to two-channel analog audio support, the racks provide one-channel-pair audio monitoring via a headphone jack or built-in speaker. All three of the new dual-input monitors are available with a waveform display as standard.

**Product Photo:** [www.wallstcom.com/Wohler/RMSeriesDI.zip](http://www.wallstcom.com/Wohler/RMSeriesDI.zip)

### **Dual-Channel HD/SD-SDI Closed-Caption Encoder With EIA-608/EIA-708 Support**

At the IBC2009 Show, Wohler will highlight the company's HDCC-200A HD/SD-SDI dual-channel, closed-caption encoder/decoder bridge, now available with support for the U.S. subtitling standard (EIA-608/EIA-708), as well as the OP47 standard being adopted around the world. Occupying just one card slot, this compact modular solution simplifies closed-caption encoding of two independent SD and/or HD sources to bring greater convenience and flexibility to digital and multiformat broadcast and production workflows.

The HDCC-200A module encodes closed-caption data into SD Line 21 (EIA-608/NTSC) or directly into the DTVCC transport stream (EIA-708/ATSC), encoding two independent sources with unique closed-caption data, or when the signal output is intended for use in different distribution, encoding two independent sources with identical data. Each of the card's channels has a "clean" output and a captioned output with a burnt-in, closed-caption display that enables easy monitoring. The card automatically formats captioning data for insertion into the HD VANC space and simultaneously converts WSS and GPI data for subsequent insertion into HD VANC, which in turn allows that data to be recorded on an HD storage device or distributed via the facility's digital video distribution network. In decoding mode, the HDCC-200A converts HD VANC data back for the SD-SDI output stream.

The card is available in two sizes to fit either the 3RU Eurocard frame or the 2RU Ross Video openGear frame. Additionally, a separate interface will allow the HDCC200A to be used in

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existing Evertz<sup>®</sup> frames without further modification to the frame.

**Product Photo:** [www.wallstcom.com/Wohler/HDCC.zip](http://www.wallstcom.com/Wohler/HDCC.zip)

## **Existing Wohler Products on Display at IBC2009**

### **Touch-it™ Digital Multichannel Video Monitor**

Wohler's Touch-it™ Digital offers unique multichannel video monitoring functionality in a smart, affordable design. The 3RU system features dual 7-inch high-resolution color LCD displays. The left monitor is a touch screen that displays from four to 16 thumbnail images. When one of these images is touched, that video source appears on the right monitor at full size and its HD/SD-SDI source signal is sent to an unbalanced output and to a VGA output for monitoring on an external display. The Touch-it Digital accepts and switches sixteen standard HD/SD-SDI video inputs, passing along any embedded audio. When combined with a Wohler E-Frame, closed-captioning, and logo keyer E-Cards, the Touch-it Digital serves as an elegant and cost-effective master control system.

**Product Photo:** [www.wallstcom.com/Wohler/Touch-itDigital.zip](http://www.wallstcom.com/Wohler/Touch-itDigital.zip)

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