

## Marshall Electronics Keeps Broadcasters CALM and EBU Compliant with Latest Generation of Audio Monitors

BY WIRE  AUGUST 30, 2013



**El Segundo, CA — August 30, 2013** — Marshall Electronics introduces 16 Channel Digital Audio Monitors with 1RU or 2RU Mainframes equipped with features to help broadcasters comply with CALM and EBU regulations. The AR-DM21, AR-DM21-B, AR-DM22-B and AR-DM22-L provide timely visual, audio, and email notifications of noncompliant signals. For a sneak preview of the AR-DM audio monitors, please visit Marshall Electronics during IBC 2013 at booth 11.D20.



Beginning in December 2012, the CALM Act requires TV stations, cable and satellite TV operators in the U.S. to limit a commercial's average volume to that of the accompanying program. Marshall's audio monitors are designed to meet the rules outlined in the CALM Act with automatic logging of non-compliant signals plus three different automatic indicators. The audio monitors can be programmed to support EBU audio loudness standards.

The automatic indicators are designed to assist operators to quickly identify non-compliant signals in a real world working environment. Visual alarms, tone alarms and auto-email notification support operations even when operators and engineers are focused on something else. "Auto-email allows remote engineering management to receive immediate notification whenever and wherever they are located," explained Director of Strategic Planning Russ Walker. "These CALM features are designed with operations in mind to allow for efficient work flow in a control room environment."

Each AR-DM audio monitor supports 16 audio channels with four slots available for interchangeable input / output modules. These units also provides pristine audio quality and unrivaled flexibility with 100% digital processing, Class D (digital) amplification, selectable stereo down-mix modes, Dolby® Digital / Dolby® E decoding capability (with optional ARDM-D552 module), a headphone jack with Level control, and an RS-485 port for on-site firmware upgrades.

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The AR-DM21 is a 16 Channel Digital Audio Monitor with 1RU Mainframe. The AR-DM21-B has the addition of tri-color LED bar graphs.

The AR-DM22-B is a 16 Channel Digital Audio Monitor with 2RU Frame and Tri-Color VU/PPM 20-Segment LED Bar Graphs. The AR-DM22-L offers Dual High-Resolution LCD displays capable of displaying meters, metadata, and channel status.

Designed for ultra-near field audio monitoring in space-critical environments, the Marshall AR-DM audio monitors are ideal for TV facilities, studios, post production, VTR bays, mobile production vehicles, satellite links, and wherever multichannel audio monitoring is required.

#### About Marshall Electronics

Marshall Electronics Inc. is a privately owned American company with four distinct operating units: Professional Audio, Cable/Connector, Optical Systems, and Broadcast/Multimedia Division. Marshall specializes in the development, manufacturing and distribution of high tech electronic products used in a wide range of professional applications. The Broadcast Division of Marshall Electronics supplies high quality LCD monitors, IP security cameras and servers, distribution, and conversion solutions for broadcasters around the world. Visit [www.lcdracks.com](http://www.lcdracks.com) for Marshall's full line of Broadcast products.

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