

Marshall Electronics IPTV Division

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Marshall Electronics Launches Family of Broadcast-Ready 1080p/59.94 IP Products at NAB Show

Marshall Electronics unveils a line of 1080p/59.94 IP Cameras, Encoders/Decoders, and network video recorders at the NAB Show.

El Segundo, CA (April 1, 2014) – Marshall Electronics introduces its new complete line of multi-format 1080p/59.94 IP products at the NAB Show. 2014 will mark the culmination of several years of R&D effort to bring to the Broadcast and A/V industry a new standard in quality, performance, operability and value in the growing 1080p/59.94 arena.

Marshall's new flagship cameras - the **VS-547-3GSDI** 30x Zoom Box Camera and its partner the **VS-577-3GSDI** 30x Zoom PTZ Camera - both offer true 3GSDI broadcast performance with a multi IP streaming module running in parallel. The cameras support low sub frame latency from 3GSDI output in various resolutions up to 1080p/59.94.

The **VS-547-3GSDI** and **VS-577-3GSDI cameras** also support our latest generation of H.264 codec, supporting one primary and three secondary streams, all in full HD together with stereo audio. Unicast, multicast, push and pull streaming are supported and controlled from a common, easy-to-use browser interface. These cameras internally run at 120 Frames which allows them to offer Flickerless **WDR** (Wide Dynamic Range), a technique that allows for a greater range of scene illumination from white to black. Details in the shadows are better represented and bright parts of the scene don't burn out.

Marshall has control surfaces like the **VS-TKC-100**, which feature a keyboard and joystick that can control a number of IP cameras with or without the use of a computer. Presentation of these high performance live feeds can be seen at NAB booth C6019. The feeds will be presented on Marshall's new 2K/4K monitor, the QVW-2410. This innovative monitor offers a quad split in 1080i and 1080p and it is future proof for the new 4K standard.

The **VS-104-3GSDI** is a new user-selectable 1080p/59.94 encoder/decoder. Marshall has taken their famous VS-102-HDSDI concept of an all-in-one encoder/decoder to new levels. The VS-104-3GSDI is the all round video server, having I/O Capability of CVBS, HDMI, SDI, HDSDI and 3GSDI - all this with embedded or analog stereo audio. Like the cameras, unicast, multicast, push and pull streaming are supported and controlled from a common, easy-to-use browser interface now featuring 4:2:2 Color Space.

The **VS-NVR-910** and **VS-NVR-1610** are new NVRs (network video recorder) with stereo audio. The VS-NVR-910 supports 9 cameras and VS-NVR-1610 is for 16 cameras. These Linux based, stand-alone NVRs can support 2 internal SATA video drives (total 8TB) but can be expanded by connecting to the e-SATA connector on the rear of the unit. The units include fully featured NVR Manager Software to control the functions of the camera and the management of the unit.

Marshall' VMS (Video Management Software) is included with all Marshall IP products to manage, control, view and record cameras or encoders. MEI VMS supports 16 sources on a computer running Windows®. Larger versions supporting up to 128 Cameras are available by purchasing a one time perpetual license. Rather than recording ISO-CAMS on individual video recorders, multiple video sources can be recorded and managed within Marshall's VMS Hard Drive Array.

Marshall is showcasing a new feature on the MEI VMS, called "**User Sizeable Source Panes**". The user can customize the look of the software multiviewer, by making one source a larger pane than the others. Also more options are offered this year to export recording to other users. Formats supported are AVI, MP4, WMV, MEI Multiviewer Native, and MEI Multiviewer with Self Contained Viewer.

Also at NAB Show will be the **VS-541-HDSDI** 20x Zoom Box Camera and its partner the **VS-571-HDSDI** 20x Zoom PTZ Camera with the **VS-102-HDSDI** Encoder/Decoder. These products are now in use by broadcasters and A/V professionals all over the world.

The entire family of Marshall IP products is displayed at NAB booth C6019. Marshall Electronics' new IP products are expected to be released in the second quarter of this year.

About Marshall Electronics

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

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[Note to Editors: Visit booth C6019 for interviews and product demonstrations.]