

## Marshall Electronics Launches Family of Broadcast-Ready Products

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### Marshall Electronics

Marshall Electronics, is a privately owned American company. They recently released a family of products for

broadcasters. Many were demonstrated at NAB 2014. They include a new encoder/decoder, some new hybrid broadcast cameras, a professional monitor with 4K display, and the Micro Studio.

The do-it-yourself Micro Studio allows anyone to record HD videos with high quality sound from their homes or businesses. It consists of the Marshall CV500-MB 2.2 Megapixel HD-SDI 1080i/59.94 Miniature Camera and CV340-CSB 2.2 Megapixel HD-SDI 1080i/59.94 Compact CS Tube Camera, MXL CR77 Dynamic and FR-355K Lavalier Microphones, an audio/video switcher, Marshall V-MD173 monitor, and PS-102-HDSI encoder (which is powered by the StreamVu content distribution network).

The V-4K 3110 is Marshall Electronics' first true 4K professional display. This monitor is designed for cinema and broadcast professionals to provide an accurate and repeatable viewing experience. It has a true 4K IPS panel with a native resolution of 4096 x 2160. It also supports 3840 x 2160 (UHD), 1080p, 1080i and 720p.

The V-4K 3110 has a true 10-bit panel that eliminated "banding" and scaling artifacts. It also has 178 degree horizontal and vertical viewing angles. The monitor has an 850 cd/m2 maximum brightness, 450:1 contrast ratio, and a wide color gamut within 2% of DCI P3 specification. It has four modular 3G-SDI inputs.

The VS-104-3GSDI encodes and decodes all the popular HD resolutions up to 1080p 60fps and 1080/23.98PsF with embedded audio. This allows HD content to be sent and received as a real time IP stream. It is an all-in-one solution for broadcasters. Marshall's VS-104-3GSDI Encoder/Decoder has configurable inputs and outputs: CVBS, HDMI, SDI, HDSI, and 3GSDI. Unicast, multicast, push and pull streaming are supported and controlled by a common, easy-to-use browser interface that now features 4:2:2 Color Space.

Marshall's VS-577-3GSI dome camera and VS-547-3GSDI box camera are true broadcast cameras with the hybrid function of live streaming. Each hybrid broadcast IP camera has an ultra low latency 3GSDI output together with four H.264 HD streams up to 1080p/59.94. Each can utilize the optional VS-TKC-100 Joystick/Keyboard control that can follow PTZ (Pan, Tilt & Zoom) action across the set. The cameras internally run at 120 frames, which allows them to offer Flickerless WDR (Wide Dynamic Range).

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