



## **TSL's Award Winning PAM2-3G16 Now With Powerful Upgrade**

TSL Professional Product Group has announced that its PAM2-3G16, a professional, multi-standard, multi-format audio monitor, has been upgraded with improved loudness measurement capabilities; a user-assignable input matrix for non-SMPTE channel order; lip sync audio delay capabilities; and improved data reporting.

TSL Audio Applications Manager Martin Dyster said, "With loudness measurement and control such an important subject amongst programme creators and broadcasters, the PAM2-3G16 addresses loudness regulation with a set of tools that are both relevant and useable, providing constant analysis and instant feedback to engineers and operators alike."

PAM2-3G16's new functionality anticipates EBU and ATSC recommendations and gives the user the power to configure their own target and measurement parameters whilst providing practical solutions for monitoring and reporting such as a time-versus-level histogram and 'over target' alarms.

The new User Assign Matrix is designed for use when embedded audio signals include components such as clean effects and multiple language commentaries. By enabling the user to assign non sequential channels to a user configurable 5.1 bargraph display, complicated multichannel delivery formats can be reconstructed and monitored using established PAM2-3G16 monitoring functions such as 'Downmix' and 'All'.

Another new feature is the ability to delay audio outputs (to internal or external loudspeakers) up to 250ms to compensate for video latency in displays and multiviewers. Audio delay settings can be configured on a preset basis so that only sources with associated video are affected. When delaying audio decoded from a Dolby E or AC-3 the PAM2-3G16 auto-compensates for the decoding latency to ensure that the output delay remains constant.