

New IF-2D3D1 Image Processor

The new **IF-2D3D1 Image Processor** is both a 2D-to-3D converter and a 3D L/R mixer for video content producers. Housed in a rugged, 1U rack-mountable metal cabinet and compatible with a wide range of high definition formats, the IF-2D3D1 is designed to help 3D content producers improve their workflow, whether



they are converting archived 2D material or shooting original content in 3D.

With the public's renewed interest in 3D for both theatrically released content and beyond, many content producers are looking to repurpose existing 2D materials to meet demand. Meanwhile, other producers creating new content need a simple way to check their 3D footage on location. The IF-2D3D1 Image Processor is ideal for both and is the key to providing new solutions for virtually any 3D content creation scenario.

Using unique JVC algorithms, the new **IF-2D3D1** converts 2D content to 3D in real time. It offers four 3D mixed formats, which combine left-eye and right-eye images, for stereo video output on a compatible device: line-by-line, side-by-side-half, above-below and checkerboard. JVC is making this 2D-to-3D conversion technology widely available under license. The IF-2D3D1 can also output discrete left and right signals via HD-SDI or HDMI for dual projection or editing. Output can be adjusted for parallax (image displacement) and 3D intensity, both with natural, anaglyph and sequential viewing modes.

Generally, 3D footage is shot using a pair of video cameras but producers have not had a practical method of real-time monitoring on location. The IF-2D3D1 easily combines the left-eye and right-eye images — nothing else is required except a 3D-capable monitor, such as JVC's GD-463D10, a 46-inch 3D LCD panel. A built-in HD-SDI frame synchroniser provides sync for two cameras that lack external sync, while anaglyph and sequential viewing modes provide multiple ways to check 3D content.

Content creation workflow can also be improved through a variety of additional features. The Scope feature provides a waveform monitor and vectorscope for comparing both video streams on a display to ensure the settings for both cameras — such as exposure and white balance — are matched. The Split feature combines the two video streams on one screen with a moveable boundary, allowing instant L/R comparison. And when one of the two cameras has to be positioned upside down (to ensure correct spacing), Rotation makes sure both streams can be viewed the right way up and in sync.