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Phantom HD Video Camera Shoots at 1,000 Frames/s

HD Digital Video Cameras as good as film-based ones

Imagine a video camera which is so advanced that it can record high definition clips at incredible frame rates, easily creating astounding slow motion effects. Well, you don't have to really imagine it because Vision Research already produces such devices in the form of the new Phantom, which is not just a high-speed camera, but an instrument that gives the cinematographer 35mm depth of field either at HD or 2K resolutions. This outstanding device now combines the visual quality of high-definition imaging with the high frame rates of specialty film-based cameras.Phantom HD allows users to select any frame rate from 1 to 1,000 fps in increments of one frame per second at HD resolution. With the Phantom camera's shutter, variable to 1/500,000 second, and radically adjustable framing rates, users can easily control the duration, speed and time of a story element. Phantom provides immediate preview for the recorded elements.The Phantom HD's sensor is truly capable of 2K (2,048 X 2,048 active pixel) imaging for cinema, or HD-compatible for projects aimed towards television production. The vertical image size can also be changed in 8 pixel increments. The CMOS sensor pixels measure 12.5 microns, and the 14-bit A/D converters provide sensitivity and image quality that has to be seen to be believed. The exclusive EDR (Extreme Dynamic Range) technology can be used to control high contrast scenes, and when used in combination with a user determined contrast ratio, the Phantom HD provides a dynamic range that actually rivals that of film-based media. These features ensure excellent image quality even at speeds of 1,000 fps, regardless of the application.***Here are the most important features:***-HD (1920 X 1080) and 2K (2048 X 1536) resolution under a PL-mount lens. Or, 2048 X 2048 resolution under an F-mount lens. -Up to 1000 frames-per-second (fps) frame rate at HD resolution -Adjust frame rate in 1 fps increments -Shutter speeds as fast as two microseconds (1/500,000 second) -14-bit sensor depth (42-bit color) -ISO 600 -35mm depth-of-field -Circular buffer recording/ Run-Stop.