

# New Products



The AG-HSC1U professional 3-CCD high-definition camcorder from Panasonic.



Fujinon's XA88x8.8BESM HD telephoto lens.

## Camcorder

Panasonic has announced the AG-HSC1U professional 3-CCD high-definition camcorder. Weighing 1.1 lbs, the camcorder records up to 88 min (41 min in the highest quality mode) of video on a high-speed 4-Gbit SDHC memory card. A highly-portable 40-Gbit hard drive, capable of receiving and storing the contents of 10 4-Gbit SDHC cards in the field, is packaged with the camcorder. SD video can be output in the widescreen 16:9 format. By utilizing the newly-developed, H.264-based Advanced Video Codec High Definition (AVCHD) video format, the AG-HSC1U delivers two times the recording efficiency of older MPEG-2 codec technologies like HDV. The camcorder features a 16:9 3-in. 251,000-pixel LCD side screen that rotates up to 270° for multiple viewing angles for playback or monitoring. It also offers as standard, a 5.1-channel surround sound system with five microphones for production-quality sound. Other key features include faster recording on startup (1.7 sec), a digital zoom (30x to 700x), and a minimum illumination of 6 lux for low-light shooting. Video connections include HDMI, USB 2.0, component video, composite video, stereo audio, plus stereo mic in.

—[www.panasonic.com/broadcast](http://www.panasonic.com/broadcast)

## Cameras

Sony has announced the HCDC-1400 dual-format camera system with 1080i or 720p. Designed for HD studio production at regional or owned-and-operated stations, this new camera offers an entry into HD for broadcasters who do not require full multiformat capabilities, but still need a high level of signal format flexibility. The system shares most of the image-making capabilities of the existing HDC-1500 system, including three-skin detail control, multimatrix color control, and high-quality SD downconversion capability.—[www.sony.com](http://www.sony.com)

Panasonic has announced the AK-HC3500 2/3 in. 2.2-megapixel 3-CCD camera. The AK-HC3500 native 1080i 3-CCD camera features an advanced single-channel transfer system and spatial offset processing for reduced aliasing and higher HD resolution (1100 horizontal lines). The camera offers HD images in 1080/59.94i and 1080/50i signals and a newly-developed 38-bit digital signal processor (DSP), 14-bit A/D converter, and 12-axis color matrix. It achieves a high sensitivity of F10 at 2000 lux and a low vertical smear (less than -130dB). The AK-HC3500 features enhanced gamma functions, including gamma correction that varies in realtime to match the contrast in the image and a new cine gamma system that captures the warm tones of film. The camera also offers a skin-tone detail function that automatically adjusts sharpness when focusing on people in various environments. Additional enhancements include dynamic detail, programmable gamma, and a 12-vector variable masking circuit that separately optimizes saturation and hue.

—[www.panasonic.com/broadcast](http://www.panasonic.com/broadcast)

## HD Standards Converter

The Protus Ph.C, a new video image conditioning system from

Snell & Wilcox allows providers of mobile TV services to dramatically increase picture quality and reduce bandwidth requirements for delivering content to wireless, internet, and Web delivery platforms. Protus Ph.C works by applying a series of sophisticated image conditioning tools to video content, before its compression and distribution over any type of platform. Derived from high-end broadcast and digital cinema applications, these tools include powerful noise reduction and motion-compensated deinterlacing and scaling, which convert video to the correct scanning format, picture size, and aspect ratio required by mobile devices and computer screens. The resulting output is in the right size, shape, and scanning format for delivery to mobile devices and internet browsers, and is also virtually free from artifacts and image degradations.

—[www.snellwilcox.com](http://www.snellwilcox.com)

The new mark II version of the Grass Valley LDK 4000 camera from Thomson now benefits from 14-bit analog-to-digital conversion and other signal processing improvements derived from the new LDK 8000 multiformat camera. The LDK 4000 mk II is available either as a 1080i camera or as a 720p camera. In both configurations it is switchable between 50 Hz and 59.94 Hz. A Service Pack is available, which enables a field service engineer to change the fixed format from 1080i to 720p or vice versa. The camera has a 7 in. (178mm diagonal) high-definition viewfinder for studio pedestal or sports operation. All digital signal processing of the LDK 4000 mk II is handled at a minimum depth of 22 bits. All image processing is carried out in a single DSP chip to minimize power consumption and operating temperature.

—[www.thomson.grassvalley.com](http://www.thomson.grassvalley.com)

## Lens

Fujinon's new XA88x8.8BESM HD telephoto lens features 88x magnification. The lens offers all the advantages of Fujinon's DIGI POWER digital controls, featuring F number limit, quick zoom, two-shot presets, and other digital functions. A 32-bit RISC processor unit controls all major lens functions. The zoom/focus mode provides three distinctive rotational curves for zoom and focus—helpful when switching between different production styles such as drama and sports.—[www.fujinon-broadcast.com](http://www.fujinon-broadcast.com)

## Multiformat Professional Editor

Thomson has announced the Grass Valley EDIUS SP SDI. The base software for EDIUS SP SDI is EDIUS Broadcast NLE version 4.0, which supports multiple layers and multiple formats in realtime. The EDIUS SP SDI includes a PCI Express card, which provides hardware-based acceleration and broadcast quality input and output interfaces using SDI interconnection for standard-definition (SD-SDI). Embedded audio is supported by EDIUS SP SDI, and a breakout box is available for analog audio IO, component video I/O and frame accurate RS-422 VTR control.

—[www.thomsongrassvalley.com](http://www.thomsongrassvalley.com)