



4K 4Charity Fun Run | NAB Show

Tuesday, April 19 at 7:30am | Sunset Park, Las Vegas, NV

Register

2016 Product Preview: Cameras

March 23, 2016

More 4K, more of the time



By **Craig Johnston**

At this year's NAB Show, 4K/UHD cameras will be omnipresent in the booths of camera makers, with a wealth of new products and new features making their debuts.

Marshall

*Marshall Electronics
CV505 2.5MP
Miniature POV Camera*



Electronics will unveil its CV505 2.5MP Miniature POV Camera, designed for sports integrators looking for broadcast-quality video in a small footprint. It measures 1.5x1.7 inches and weighs just under 5 ounces. It provides 3G/HD-SDI or HDMI output at up to 1920x1080p60/59.94. Newly added to the camera is the ability to capture TRS audio, embedded across 3G/HD-SDI or HDMI.

MultiDyne will introduce its POV/PTZ camera system, designed for a range of unmanned camera applications. It includes bidirectional GigE transport capability and the ability to accurately synchronize multiple cameras during live or studio productions. The weather-resistant, camera base includes a built-in MultiDyne HD-3500GE Series Multi-rate Serial Digital Video Fiber- Optic Transceiver.

AJA CION



AJA will introduce new features in its CION 4K/UltraHD and 2K/HD production camera. It enables shooting in direct to edit-ready AppleProRes 4444 at up to 4K 30fps; ProRes 422 at up to 4K 60fps; or can output AJA Raw at up to 4K 120fps. CION provides extensive Gamma modes that offer the flexibility to capture the scene exactly as lit in Normal, Normal Expanded or Video Gamma modes.

ARRI will demonstrate the ALEXA Mini camera, which combines a compact, lightweight form factor with the same image quality that ARRI's standard-size ALEXAs deliver. The Mini is designed for use with gimbals, multicopters and other specialized rigs. ARRI also will introduce its economical AMIRA documentary-style camera, which supports CFast 2.0 workflows.

Sticking with tradition, **Blackmagic Design** will hold its new product news until the show, however, expect to see the return of the company's URSA Mini, a small form factor of its URSA 4K cameras, as well as the *Blackmagic URSA Mini* Micro Studio



Blackmagic URSA Mini

Camera 4K and the Blackmagic Micro Cinema Camera.

Canon will introduce a new HDSLR flagship, the EOS-1D X Mark II, with a 20.2 megapixel 35mm Full Frame Canon CMOS sensor and Dual DIGIC 6+ Image Processors. The company will also showcase its multipurpose ME20F-SH, delivering full HD images at an ISO sensitivity of over 4,000,000.



Grass Valley LDX 86 Universe



Hitachi DK-H200 HD compact Box Camera

high dynamic range (HDR) in single-speed operation.

Hitachi Kokusai will introduce the DKH200 HD compact Box Camera, a multiformat, HDTV box camera for robotic applications. It features full frame rate 1080p acquisition. Also highlighted will be the SK-UHD4000 camera, which uses standard 2/3-inch B4-mount lenses. It uses a fourport prism and four MOS sensors totaling more than 8.8 megapixels.

I-Movix will demonstrate Infinite, a new ultra-slow motion camera system that combines

Grass Valley will feature its LDX 86 Universe camera, which provides universal format support with switchable 1X/3X/6X HD, 1X/3X 3G and 1X 4K, all from a single camera. The LDX 86 Universe offers an optional software upgrade to enable 15 *f*/stops of

scalability
with trigger-
less
operation,
with
continuous
on-board
loop
recording of
more than
one hour of
high frame



I-Movix Infinite



Ikegami UHK-430 4K camera

rate in HD
and frame-
accurate
ramping of
speed without
compensation
and
interpolation.

Ikegami will showcase its UHK-430 4K camera, designed for use in the studio and field. Utilizing B4-mount lenses, the camera has three 2/3-inch 4K (3840x2160) CMOS sensors with RGB prism optics. Ikegami also will exhibit 8K technology showcasing developments in the extremely high-resolution format, Super Hi Vision.

Ikegami will

Joseph Electronics will introduce its JFS WAVESHIFTER-4 series that can transport up to four HD camera systems on one single- mode fiber optic path. The WAVESHIFTER uses optical wavelength shifting technology to map the two fibers in standard HD cameras to wavelengths in the CDWM spectrum, which is then introduced into a CWDM mux.



Panasonic Varicam LT

Panasonic will unveil its VariCam LT next-generation 4K cinema camera.

It utilizes the same super 35mm sensor and imaging capabilities as the VariCam 35, but with significant reductions in size, weight and price.

The VariCam LT (model AUV35LT1G) delivers 14+ stops of dynamic range with V-Log, and the cinematic VariCam image quality and color science, as well as dual native ISOs of 800/5000. The company will also debut the AJPX230PJ AVC ULTRA handheld camcorder, providing the quality, image control and much of the functionality of its predecessor, the AJ-PX270. It offers 10-bit, 1080p AVC-Intra and AVC-LongG codecs, extensive video control, a 22x zoom lens and OLED viewfinder. The camcorder provides the same video recording quality and body design as the PX270, minus networking (wired and wireless), proxy and genlock/TC interface, delivering a significantly lower-cost version for shooters who don't require these features.

RED Digital Cinema will showcase the latest RED camera lineup: Raven 4.5K, Scarlet-W 5K, Weapon 6K and Weapon 8K Carbon Fiber. In



addition to a hands-on experience with RED cameras you'll see

Sony PXW-Z150

demonstrations on RED's workflow as well as the software and accessories that help unlock the power of any RED-based system.

Sony will unveil the PXW-Z150 4K camcorder that combines lowlight performance and multiple file transfer options. It features a 1.0 type stacked Exmor RS CMOS image sensor to help deliver sharp pictures in low-light conditions. Also new will be the HXR-NX100 professional compact camcorder that delivers the benefits of a 1.0- inch type sensor.

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