

News from NAB 2013

- Next generation products launched
- News and analysis straight from the show floor

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4K for less than £4K!



The truth is that we have had as little time with the camera as anyone else so we can only say - rather unscientifically - that the pictures look gorgeous.

It shares many features of the original Cinema Camera so we know the camera will gain enormously from professional rigs, monitors, batteries, matte boxes, viewfinders and follow focus units.

The UltraHD Workflow

Why have 4K? Blackmagic completed the workflow at NAB with live 4K grading tools in Resolve 10, a 4K ATEM production switcher, UltraHD upgrades to the DeckLink 4K Extreme editing device and the HyperDeck Pro recorder.

More 4K kit inside...

New microP2 camera

Panasonic has introduced a new 2/3 inch HD camera that embodies the dramatic changes in ENG production. It features:



- AVC-Intra 100 & AVC-LongG recording
- Wi-Fi, USB & Gigabit Ethernet
- Mobile network support
- Remote metadata input
- Variable frame rates See inside for details.

Thunderbolt Dock

There are Thunderbolt docks, then there's this. 15 ports, including 4x USB 3.0, 2x eSATA, 2x audio in and out, an extra Thunderbolt, GigE and FireWire800 ports. There's even room for a Blu-ray or hard disk.



iMacs and Mac Book Pro's will love it!

PocketHD Cam



Blackmagic Design shocked NAB with a new £665 camera.

Fitting HD ProRes and CinemaDNG RAW recording with 13 stops of dynamic range into a shirt-pocket sized camera is unbelievable. We can't wait for them to arrive.

All prices exclude VAT; subject to change

Why we love...



...Panasonic HE-2. Richard Payne says:

"It's an incredibly low-cost 1080P camera head that delivers excellent images and pretty respectable sound. It's also very clever: its 4MP chip enables users to select any HD section of the picture for digital zooming with no loss in quality. It can be controlled by a laptop or RP units."

Sonnet solutions

Sonnet and partners showed how cost-effective IT and video technology can come together to dramatic effect.



With the xMac mini Server 2H and Echo Express III units Apple computers were transformed into low-cost ingest, capture and media storage systems, playout servers and Red-ready DIT stations.



AVC-ULTRA, microP2, Networking & Dual Codec Recording

The PX5000 is the ENG camera you can configure. Need master quality HD? Choose AVC-Intra200. Full broadcast quality? Go with AVC-Intra100. Deliver news fast over the Internet or mobile networks... get high-image-quality, low bit-rate, 4:2:2 10-bit pictures with AVC-LongG50/25.



This high-end camera brings together every recent development to meet every production requirement. Featuring a newly developed 2.2 megapixel 2/3 type MOS image sensor, the AJ-PX5000 produces superb images with F13 (50 Hz) sensitivity and 60 dB S/N. It captures 1080/50p progressive, full-frame-rate video in a variety of flexible codecs.

Features and Options

- 2 microP2 slots for low-cost media
- Broadcast codecs ~ 25- 200Mb/s with optional dual codec recording
- Network function allows previewing, streaming, and metadata editing of proxy images with a PC or Mac
- Wireless connection for tablet or smartphone linking
- Remote playlist editing
- GPS positioning, ND filters, USB3, P2 slots, 24 bit audio...

The PX5000 will be available in the Autumn.

microP2 shipping now!



microP2 is Panasonic's new pro recording format that offers very high speed recording and data transfers (2Gb/s) and dramatically lower cost media.

It has a significantly smaller form factor, a tough build quality (200% stronger than SD spec) and reliable RAID protected operation.

Just launched...

- AJ-PD500 microP2 AVC-Ultra recording deck
- microP2 -> P2 adapter
- Low-cost USB3 2-slot media reader/writer



25Mb/s broadcasting

The launch of Panasonic's AVC-Ultra family of codecs introduces a new Long Gop option that can record HD broadcast quality 4:2:2 10-bit video at an incredibly low 25Mb/s.

Why is this important? While storage capacities are relatively unimportant these days, data rates are of huge significance. Getting the news from a remote location back to the newsroom fast is vital. A 25Mb/s stream can be transferred over Internet or mobile networks, adding a new weapon to the broadcaster's armoury.

The 50Mb/s 4:2:2 AVC-LongG50 is also available.

AVC ULTRA

4K

NEW 4K Field Monitor

Panasonic's BT-4LH310, a 31-inch 4096 x 2160 resolution LCD monitor is designed to offer unrivalled 4K/2K monitoring in the field. It will be ideally suited for use on-set for live monitoring of 4K cameras and devices with I/Os as well as for viewing of dailies.

The 10-bit IPS panel affords native 4K resolution, a wide viewing angle, and faithful reproduction of up to 1.07 billion colours. It features multiple professional inputs (including HD-SDI, 3G-SDI, HDMI, RS-232C and RS-485), true colour processing with a 3D look-up table and 28V DC operation for use on location.



The monitor is available this Autumn

Remote control Cubes: a global revolution

With Cube and Bond, Teradek re-wrote the rules of H.264 encoding, Internet streaming, wireless delivery and mobile transmission. Teradek is now helping news organizations to broadcast remotely, corporate companies to stream video and film crews to monitor camera feeds.

Today, organizations often own multiple Cube and Bond devices. At any point in time these might be broadcasting from multiple locations around the world.

Core is Teradek's new cloud-based encoder fleet management system. From a single web GUI, users

can monitor and control all their Teradek encoders and decoders, and cellular bonding systems effortlessly.

- Direct streams from any encoder to any decoder(s), with incredibly simple routing
- Control all encoding and transmission parameters remotely allowing camera crews to focus on shooting
- Automatic device discovery and drag and drop workflow: no manual entering of IP addresses
- Customizable warnings and notifications keep devices operating smoothly

Bond Pro: Integrated ENG Cellular system

Used by news, sports and media organizations globally, Bond aggregates multiple 3G and 4G mobile networks to stream HD reliably and at high quality.



Bond Pro is a new integrated camera-back version that combines an H.264 encoder with a bonded 6-dongle cellular solution. It is designed specifically for broadcast ENG cameras with Gold-mount or V-mount power systems. It comes with an HD-SDI input, HD-SDI loop, and an SD card slot for on-board proxy recording.

It's lightweight, secure and has low power consumption which allows operators to broadcast live for long periods of time without interruption or fatigue.

Introducing Bond II

Bond II is a camera-mounted integrated H.264 encoder with transmission via up-to 6 bonded cellular modem dongles. It includes a built-in Li-Ion battery.



Sputnik 2.0

The Sputnik server app recombines packets from Bond devices into a cohesive video feed that is transmitted to your streaming platform or H.264 decoder.

The new Sputnik 2.0 gives news stations IFB (two-way) communication and real-time broadcast status monitoring. The latest version enhances adaptive bitrate streaming and reduces packet loss.

Version 2.0 can also be used with Cube and Brik encoders that are enabled with the MPEG-TS service.

VidiU available now!



A complete plug-in HD streaming system, VidiU takes an HDMI feed and transmits it to any service of your choice. Ustream and Livestream are pre-configured; adding other networks is child's play thanks to RTMP support.

Send your stream over...

- Wired network connection
- Over WiFi
- Over 3G or 4G via a USB mobile dongle

Edge: mobile network centre

The Edge encoder combines the bandwidth of: 6 mobile SIM cards, dual Ethernet ports and dual band MIMO WiFi for very fast wired / wireless uplinks and downlinks.

Slice: H.264 encoder / decoder

A 10Mb/s encoder, Slice broadcasts low latency 1080p video for IPTV or webstreaming, at an unprecedented price. Slice supports MPEG Transport Stream, RTMP, RTSP, RTP or Multicast.



Did HD just trump UltraHD?

After the surprise of last year's Cinema Camera and the rise over the last 6 months in 4K production, few were surprised that Blackmagic Design launched a 4K camera at NAB.

The ultra-low price of the Production Camera was certainly welcome but Blackmagic Design and extraordinary pricing levels are pretty much synonymous.

Shock and awe?

The Pocket Camera, on the other hand - no one was expecting that! A \$995 (£665) HD camera recording ProRes or CinemaDNG RAW, with 13 stops of dynamic range in a form factor little bigger than an iPhone... for many observers it was the hit of the show.

It's easy to own, taking micro 4/3rds lenses and shooting onto SD cards. In many ways it's a no-brainer: with a high capacity battery, it doesn't need an external power supply; with stereo microphones, sound recording is possible without an external mic set up. And it's nimble enough to use hand-held without a rig.



And for those that have accessories for smaller DSLRs, there's a chance to use existing tripods, rigs, matte boxes and arms without re-investing in an entire new outfit. It's a very clever concept at a 'why not' kind of price, especially as it includes UltraScope and DaVinci Resolve in the cost.

The proof

It's early days, but the pictures stand up well in comparison to HD images out of the Cinema Camera. Whether it's your primary, second or occasional camera, it's definitely one to add to your equipment list.

Availability

We expect our first shipments in July. Pre-order from your reseller to head the list.

Perfect 10

DaVinci Resolve 10 has been very well received by colourists.



Grade pictures live: Grading times can now be slashed as colourists begin work on-set.

Editing tools: Full multi-track video editing with 16 channels of audio per clip. Editing tools include extensive ripple, roll, slide and slip clip trimming support and titling.

Other new features include... Support for OFX plug-ins, motion effects including spatial and temporal noise reduction and motion blur effects.

Building the 4K production chain

Over the last 12 months, vendors have unleashed a series of 4K products. Blackmagic Design went much further at NAB, not only unveiling a sheath of UltraHD kit but also signposting how the whole production chain will very swiftly be able to transition to the new standard.

Enter 6G-SDI

6G-SDI is the only solution to allow Ultra HD products to be integrated into current SDI based television systems. It is also a highly cost-effective solution to the problem of massive 4K data rates.

Importantly, 6G-SDI is backward

compatible: it can switch between 4 different television rates all on the same BNC connector. This means customers can purchase products with 6G-SDI running at 6 Gb/s speeds and then switch them to 270 Mb/s SD speeds, 1.5 Gb/s regular HD-SDI speeds or 3 Gb/s 3G-SDI speeds.

Product updates

The first move from Blackmagic has been to upgrade its existing range: HyperDeck Studio Pro, UltraStudio 4K and DeckLink 4K Extreme are shipping now with 6G-SDI support built in, for Ultra HD support.

Switching over to live 4K

ATEM switchers were revolutionary at launch. They are still ahead of

the competition today. Now there's the ATEM Production Studio 4K.



Instantly, live 4K video production is a reality. And at under £1,350 + VAT, the cost is a non-issue. It is simply staggering that Blackmagic can hit this price point.

Mixing multiple 4K signals, keying high quality motion graphics and titles and delivering multiviewer output is a real achievement.

Capturing beauty

The Production Camera 4K with its global shutter and 12 stops of dynamic range can capture great images. It



Audio for video

The new sound levels monitor includes all the features video industry people need. It includes great quality sound with dual subwoofers for a wide frequency response.

It has AES/EBU inputs, stereo analogue connectors, an LCD screen and HDMI output for monitoring. With 6G-SDI inputs, it can handle UltraHD as standard,

switching automatically between SD, HD and Ultra HD.

Users can de-embed audio from any of the SDI audio channels using simple front panel buttons.



Supporting stereo and 5.1 Dolby surround sound, it's ready for broadcast, film, webstreaming and video archive environments.

ATEM Studio Converter

The new version of the converter features more popular analogue connections on the rear panel for audio, plus new 6G-SDI technology. It has a control on the front panel for operating the talkback without an external microphone.

It has an attractive machined metal design and a built-in power supply. It has been developed to be upgraded to 6G optical fibre when modules are available.



Hub price cuts



The cost of the Universal Videohub has been cut to £2,025 + VAT.

Now it is possible to build a fully populated 72 x 72 card based Universal Videohub for less than the cost of a Broadcast Videohub.

records ProRes or CinemaDNG 4:2:2 onto SSD disks but the most interesting prospect may be the 6G-SDI output that is most interesting. Feeding directly into the ATEM Production Studio 4K, music and event producers can produce live 4KTV for big screen playout or recording onto the upgraded Hyperdeck Studio Pro.

Another intriguing development is the concept of live grading - see the DaVinci Resolve 10 panel.

Managing the data deluge

4K video bitrates are massive. Whether users are recording onboard with the Blackmagic's camera or onto the external Hyperdeck recorder, SSD disks will inevitably fill fast.

Enter the MultiDock: it's a Thunderbolt connected device that enables crews to mount, read and write up-to 4 SSD disks. Independent SATA chips makes for impressive performance so that video files can be copied onto local or network storage with ease. A second function of the dock is as a Thunderbolt-connected striped RAID array, using 4 high speed solid state disks. Potentially this will deliver the extreme performance needed for multi-track real-time editing.



Unstoppable

4K is coming. Fast. Much faster than anyone imagined and Blackmagic Design is right at the forefront.

SmartScope Duo



Smartscope Duo is dual vectorscope in one small unit. Input 2 signals and compare them side by side to set up and match cameras.

It's a rack mount solution for live production, colour correction and broadcast.

Duo features all the scopes available in UltraScope (YUV Parade, Waveform, Vectorscope and Histogram, plus audio level metering) in any variation on each of the dual 8" LCD's.

For example, users can select RGB Parade and Vectorscope with picture view on the left side, plus audio scope on the right side for general broadcast rack monitoring.

SmartScope Duo supports SD, HD and 3G-SDI video formats.

At £665 + VAT, it's incredible value.

DeckLink Mini Monitor

Plug this PCI card into your Mac, Windows or Linux computer for realtime video playback from the editor's timeline. Supports software such as Avid Media Composer, Symphony and News Cutter Apple Final Cut Pro X and 7, Adobe Premiere Pro, and After Effects and more.

DeckLink Mini Recorder

Simple, effective and reliable, this PCI card has SDI and HDMI inputs to record high quality HD video. Low-cost, great results.



Thunderbolt multi-port dock

Not all Thunderbolt docks are the same. Sonnet's Echo 15 is about as fully featured as you could wish for, adding not just ports but also optical and disk storage drives to computers and laptops.



	Sonnet Echo 15	Matrox DS1	CalDigit Station	Belkin Station
USB 3.0	4	1 + 2 x USB 2	2	3
eSATA	2	No	No	No
Audio i/o	2	1	1	1
Thunderbolt	2	1	2	1
VGA / HDMI / DVI [#]	Yes	Yes	Yes	Yes
Gigabit Ethernet	Yes	Yes	Yes	Yes
Firewire 800	Yes	No	No	Yes
Blu-Ray	Yes*	No	No	No
External hard drive	Yes*	No	No	No
Other ports	-	DVI or HDMI	-	-

[#] via adapter *options

Sonnet has gone well beyond the limits of a generic Thunderbolt dock to deliver an improved user experience, with ports on the front and rear of the device.

Equally, the inclusion of eSATA in the unit is great for media professionals, allowing

them to connect external RAID drives and the fastest card readers.

Finally, the Blu-Ray drive instantly upgrades a Mac to the latest optical disk technology while the hard drive provides extra space and data security. Both features are options.



Mac Pro go fast

Tempo SSD Pro accelerates workstations by adding two solid state disks either as a lightning fast boot disk or as media storage space. Featuring 6Gb/s chipsets, RAID support for read speeds of up-to 960MB/s, it's enough for demanding 4K editing.

Mac Book Pro go fast

Thunderbolt-connected laptops can also benefit from these extreme speeds: The card fits into an Echo expansion system to link to a Mac Book Pro, iMac or Mac Mini.

Red Rocket

The combination of the Red Rocket and Tempo SSD Pro cards plus the Echo Express Pro chassis, creates a very high-performance transcoding station in a single, compact package. Connect to a Mac via Thunderbolt.

xMac mini Server rack unit

xMac mini Server 2H, a second model of the company's xMac mini Server Thunderbolt-to-PCI Express expansion system and 1U rackmount enclosure for a Mac mini.

As well as a smaller, OB friendly form factor, the new version enables users to install two full height PCIe cards. This transforms the Apple computer into a pro audio recorder, video server, data storage controller or media ingest and asset management hub.

Like the original system, the 2H model includes a power supply and all Mac mini ports easily accessible in rack configuration.



Thunderbolt expands



Echo expansion units are extremely popular in the video and audio market for their ability to add PCI cards to any Thunderbolt-enabled computer and laptop.

At NAB, Sonnet unveiled two new devices Echo Express III in both desktop and rack-mounted form. Both integrate a 300W power supply with a 75W auxiliary power connector for cards that require supplementary power.

The rack edition allows users to install two 5.25-inch form factor devices inside the enclosure, such as an internal LTO 6 tape drive plus four swappable 2.5" SSDs.

10Gb Ethernet cards

With 10Gb technology, HD and 4K workgroups can access, share and deliver media projects with no data bottlenecks or network slow down.



Sonnet's Presto 10GbE single port and dual port cards are fast, reliable and easy to install in workstations and servers.

The single connector version is optimized to work with a Thunderbolt-enabled Mac for instant upgrade to the fastest network speeds, via a Sonnet Echo expansion unit.

Pico encoding



Optibase MGW Pico, the world's smallest professional-grade H.264 HD and SD encoding and streaming unit is now available.

It delivers low latency streaming and benefits from metadata handling capabilities, making it broadcast-ready.

It's small enough to go anywhere and tough enough for every environment.

Metus goes Cuda

Metus Ingest now supports Nvidia's Cuda technology. With Geforce 690 GPU, 6 channels of 1080i H.264 video can be captured in real time.

Further upgrades for even faster performance are in the works. CUDA will be supported on Metus Ingest versions above 3.4.

Also imminent is support for capture in Avid's DNxHD codec. Keep an eye on holdan.co.uk for all the latest information.



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Alphatron waveform



Alphatron is offering a free firmware upgrade for all current users of their Electronic View Finder EVF-035W-3G. The new firmware enables the EVF to display Waveform and Vector scope signals.

The HD viewfinder is a very popular model, ideal for system cameras, such as the Blackmagic Cinema Camera, Sony large sensor systems and the Canon C range. With HDMI as well as HD-SDI inputs, it's also a great companion to HD-DSLRs.

Wetsuits: not just for divers

CamRade keeps pace with new camcorder launches to bring protective water-resistant covers to market fast.

Latest wetSuits include hoods for JVC's GY-HM600 and HM650, and Sony's PMW-F5 and F55.

Made from tough material that reduces wind and rain noise, the covers are durable, reliable and professional. At around £150, they're invaluable.



BIG DATA: sorted

With Apace's Unstructured Search for Media (USM), content ingested and held on storage systems is auto-catalogued: each node becomes an intelligent data machine. Collaborative global user commenting is offered to allow for continuous improvement in search results

Apace's new Offline Drive Management (ODM) keeps track of online and offline media with a virtual media library. Disks can be inserted into the ODM chassis with each drive tracked and catalogued. Global web-based access and instant playback of online or offline media is facilitated via a proxy database. ODM is a clear alternative to tape storage.

4K transcoding

Harmonic, the developer of ProMedia Carbon, demonstrated HEVC compressed Ultra HD content at NAB. HEVC offers up-to 50 percent better compression efficiency than H.264 so it's the ideal codec for optimizing 4K streams.

4K 2012

In an interview with The Hollywood Reporter magazine, the president of Panasonic's imaging division is reported to have said that a whole set of products for affordable 4K broadcast production is in development for release in 2014.

Long range WiFi



Datavideo is introducing extreme WiFi senders that are designed to work in conjunction with video encoding devices.

Data streams sent to the unit either wirelessly or over cabled Ethernet is transmitted over the unit's high power system to receiver units 250m (NVW-100) or 500m (NVW-200). These distances can be increased dramatically using external antennae.

The 200 model is a dual radio design so that it can transmit to local and remote users concurrently.

New Teleprompters



Turn your iPad or Android Tablet into a teleprompter made to fit ENG and DSLR cameras. You can easily

load scripts, adjust speed, character size and colours using our free app.

The new prompters both come with a light-absorbing "sock cloth", a quick assembly

bracket and a 60/40 beamsplitter glass panel. A wired remote (iPad version) or wireless remote (Android tablet version) lets you control speed and direction for more professional results.



• **TP-600 Teleprompter**
Teleprompter for ENG Cameras

• **TP-500 Teleprompter**
Teleprompter for DSLR Cameras



Production is on the move

Broadcast quality at the ready

Today's HD production crew needs to be ready for every eventuality. Filming in the rain. Shooting on the run.

Live interview on air in 5. Month-long global documentary assignment. Breaking news story...

With Holdan's production kits, it's all the same. P2 broadcast-approved camcorders, all-weather camera covers, portable LED lighting rig and HD encoders ready to stream live over the Internet or mobile networks.

Available from your reseller today.

Kit list:

- Panasonic HPX250 camcorder, now with microP2
- CamRade Wetsuits & pro bags
- Datavision LEDGO Reporter kit
- Teradek Bond with a Cube encoder

camRade & Holdan

Holdan has extended its distribution agreement with camRade to cover its entire range of bags, backpacks, camera suits and rain covers.

We can now help you transport and protect all your kit.

Teradek & Holdan

In a deal signed at NAB, Holdan is now Teradek's pan-European distributor.

Holdan has unparalleled experience with Teradek's encoders, mobile systems and transmitters which are incredibly popular in the film, video streaming and broadcast markets.



What is Holdan?

Holdan is a value added distributor. We represent specialist manufacturers and their product lines which we stock, promote and support.

Products are available to end users exclusively via a network of qualified broadcast, pro-video and AV resellers in UK, Ireland and mainland Europe.

Our technical and business teams can assist customers to specify, install, integrate and maintain the best available equipment.