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August 2015

# Broadcaster<sup>®</sup>

CANADA'S COMMUNICATIONS MAGAZINE

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## IBC LOOKS TO FUTURE OF TV

International Broadcast Conference Connects  
TV Studios, Data Feeds, Mobile Opportunities

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SERVICES FROM IBC

INDUSTRY NEWS  
FROM CANADA

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**Editor**

Lee Rickwood  
editor@broadcastermagazine.com

**Senior Publisher**

Advertising Sales  
James A. Cook (416) 510-6871  
jcook@broadcastermagazine.com

**Creative Director**

Beverley Richards

**Print Production Manager**

Phyllis Wright (416) 510-5101

**Production Manager**

Gary White (416) 510-6760

**President**

Alex Papanou

**Circulation Manager**

Anita Madden (416) 442-5600 ext. 3596

**Customer Service**

Malkit Chana (416) 442-5600 ext. 3539

**News Service**

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**Head Office**

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by ATG Danmon for Trinity Broadcasting  
Network UK and Europe. ATG Danmon  
is promoting its range of broadcast  
systems planning, design, installation,  
commissioning and post installation  
support capabilities at IBC2015,  
and exhibiting with a number of  
Danmon Group colleagues.

# IBC 2015

## The FUTURE OF MEDIA in an Age of Disruption

**W**ith the rapid convergence – some might say collision – of broadcast television, information technology and mobile telecom services, this year's International Broadcast Conference looks at *The Future of Media in an Age of Disruption*, and the business strategies and production technologies emerging as a result of the explosive growth in the consumption of TV and video content on smartphones, tablets and laptops.

In fact the International Honour for Excellence 2015, the highest honour IBC bestows, will be presented to a technology – and the company behind it – that's perhaps been the most enabling in the transformation of the broadcast industry: the award will be presented to ARM, the company behind the processors in virtually all smartphones and tablets (*Please see sidebar story on next page for more*).

It's just one of many signs that changes in television broadcast production and delivery are everywhere – TV itself is everywhere and the industry should be following a shared, united vision for its own future. That was the word from centre stage of IBC 2014, when media and network technology company Ericsson described a fast approaching reality: over 15 billion video-connected devices out there, opening up new opportunities for content owners, broadcasters, TV service providers, advertisers and customers.

This year, a multi-vendor presentation at IBC will show how *the future of media is on the Internet*, with the powerful impact of emerging IP-based live broadcast

production techniques and technologies coming to bear.

The European Broadcasting Union (EBU) and Belgian public broadcasting company VRT will showcase their LiveIP Project, for example, using state-of-the-art, IT-centric hardware and software that's said to bring added speed, efficiency and economy to broadcast program production and distribution.

Leading international industry technology partners participating in the so-called Sandbox project (including companies such as Axon, Dwesam, EVS, Genelec, Grass Valley, Lawo, LSB, Nevision, Tektronix and Trilogy) are providing all the elements of a live production chain driven by IP.

Visitors at IBC will see a demo of system which uses open standards – in this case SMPTE 2022/6, AES67, and PTP – to transport broadcast feeds via SDN with high levels of interoperability, seamless switching and limited redundancy of uncompressed video and audio feeds transported over an IP network.

Of course, it's not just broadcasters playing in the sandbox: leading Internet companies like Google and Amazon are moving into the TV business, and they'll be explaining why as part of their IBC presentations.

Looking at the flip side of the coin, other IBC presentations will ask, *Is TV facing up to the Internet Era?*

How will the TV industry transform itself to ensure it survives in this Internet era? Is it possible that new entrants with no legacy but the Internet take over from

continued from page 4



The future of TV is on the 'Net: New product demonstrations at IBC show the powerful impact of emerging IP-based live broadcast production techniques and technologies coming to fruition. IMAGES COPYRIGHT VRT SANDBOX 2015 – LIVE IP PROJECT

long established broadcasters? And just how fickle is the TV consumer, anyway? Is the Internet capable of delivering the high quality TV experiences they demand today? What will be demanded tomorrow?

IBC has conference streams and exhibition sessions in place with titles such as *Broadcasting in an Age of Challenge*, *OTT: Moving Beyond Broadcast Devices in a Strategic Plan* and *New Disruptors* to help provide answers.

### IBC Award Winner ARM's Mobile TV Revolution

In less than a decade, the iPhone and the products that followed have radically transformed the way we watch TV and consume media: just the fact that we can deliver real-time, high resolution graphics and videos to a handheld, battery-operated wireless device is a remarkable technical achievement.

That's why the International Honour for Excellence 2015, the highest honour IBC bestows, will be presented to a technology – and the company behind it – that has perhaps most enabled the transformation of the broadcast industry.

ARM designs the technology that's at the heart of advanced digital products, from wireless, networking and consumer entertainment solutions to imaging, automotive, security and storage devices: it is the company making the leading-edge reduced instruction set computing (RISC) processors in many smartphones and tablets.

The world's first commercially successful RISC processor was

launched 30 years ago by Acorn Computer Group. In 1990 the work on which Acorn and Apple were collaborating was spun out into a new company, Advanced RISC Machines or ARM. Two years ago, the company manufactured a staggering 50 billion RISC cores.

There's more to come, of course.

"We see an exciting future for the broadcast and entertainment industry as evolving technology brings new revenue streams, diversity in consumption and seamless viewing experiences across all devices," said Simon Segars, CEO of ARM.

"Mobile devices have proved a disruptive, transformative technology for the electronic media industry," added IBC Council Chair Peter Owen said. "Smartphones and

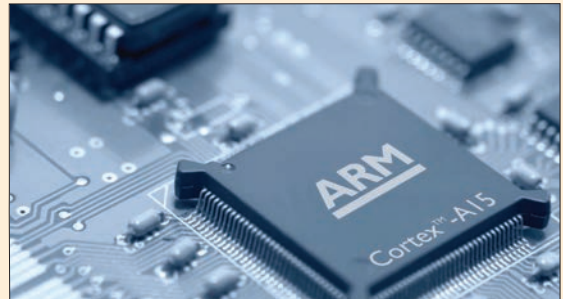


Image courtesy ARM.

ARM's RISC technology fuels popular smartphone activities like watching mobile TV; the new Cortex-A15 processor is said to be almost twice as fast as its previous processor.

tablets owe their existence to RISC processors [and so] IBC is pleased to present its 2015 International Honour for Excellence to ARM."

### IBC2015 Dates:

Conference: September 10 - 14

Exhibition: September 11 - 15

For more information, visit  
[ibc.org/conference](http://ibc.org/conference)



## Fifth Story Adds Next Chapter



Paul Abrams

Fifth Story's content marketing expertise is growing with news that the company – formerly known as News Canada – has hired a new full-time as Director, Marketing and Custom Solutions.

Paul Abrams, who has been consulting with Fifth Story on custom content marketing programs for over six months, joins the company in the dual role, with responsibility for developing and implementing Fifth Story's marketing strategy as well as driving sales of custom content marketing programs.

Abrams has over fifteen years of sales and marketing experience at CBC, CHUM and on the agency side. "His ability to develop storytelling sales and marketing solutions and communicate in a highly visual and creative way will help us move our branding forward, as well as drive sales of custom programs," described Shelley Middlebrook, president of Fifth Story, when announcing the hire. "I greatly look forward to him being a full-time member of the team."

Abrams will be working with Jessica McLeod, who joined Fifth Story as Sales and Marketing Coordinator in April 2015.

## New Radio Station in Creston

Vista Radio launched its newest radio station last month, as 94.1 Juice FM hit the air, bringing to the BC community its popular classic pop and rock Great-est Hits sound.

"We are very excited to provide the Creston Valley and surrounding area with

its very own station," said Steve Huber, General Manager of 94.1 Juice FM. "Building on our tradition of being a community first station, 94.1 Juice FM will provide Creston with hourly news throughout the week along with local sports, weather, road reports and community events."

94.1 Juice FM has hired full-time staff including News Reporter/Afternoon Host, Kris Dickeson and Sales Executive Rachele Justus. Weekend programming will be handled by several part-time employees. The transmitter is located just west of Creston on the CBC radio tower. At just under 3,000 watts, station operators describe, it has the power to reach across the Kootenay region and into the U.S.

Vista Radio operates 38 radio stations (and growing) across 67 transmitters located in three provinces and the Northwest Territories.

## X Marks the Spot for CBC, Temple Street

CBC and Temple Street Productions are in production on Season Two of the original series X Company, an adventure drama set in the world of WWII espionage and covert operations.

"We're thrilled to be returning for a second season of X Company and continuing our partnership with CBC and Sony Pictures Television," commented David Fortier and Ivan Schneeberg, executive producers and co-presidents, Temple Street Productions. "Together with creators Mark Ellis and Stephanie Morgenstern and our talented cast and crew we are looking forward to delivering another compelling season of the show."

Returning this season is the international ensemble cast including Evelyne Brochu, Jack Laskey, Hugh Dillon, Warren Brown, Dustin Milligan, Connor Price and Lara Jean Chorostecki. Season One of X Company premiered on CBC Television February 18, 2015 to more than one million viewers.

Season Two's 10-episode, one-hour drama shoots on location in Budapest, Hungary until November 2015, and is set to air on CBC in early 2016.

X Company is a Canadian-Hungarian co-production, produced by Temple Street Productions and co-produced by Pioneer Stillking Films and commissioned by CBC. Sony Pictures Television distributes the series internationally with broadcasters

in France (TF1), Latin America (History), Japan (Mystery), New Zealand (Telecom), Turkey (D-Smart, and Iceland (365 Media).

## WIFT-T Names Director Mentorship Recipient

Women in Film & Television – Toronto (WIFT-T) has named producer/director Nimisha Mukerji as the recipient of its 2015 DGC Ontario Director Mentorship.



Nimisha Mukerji

The first portion of the Mentorship focuses on business training and guidance through one-on-one mentoring sessions with industry professionals, leading up to the 2015 Toronto International Film Festival (TIFF). As the recipient, Mukerji also receives a complimentary 2015 TIFF Industry pass. The second phase of the mentorship will pair Mukerji with a DGC Ontario Director member who will guide her through various creative approaches.

"WIFT-T is thrilled to once again offer a director mentorship and we are extremely grateful to our partner, the Directors Guild of Canada Ontario, for helping us make this flagship opportunity available to our members," said Heather Webb, WIFT-T Executive Director. "Fostering and nurturing exciting female director voices are of utmost importance to WIFT-T, as we strongly believe that diversity in the industry serves to strengthen it."

Mukerji is an award-winning director with both docs and narrative projects in her portfolio. Her credits include feature docs *65\_RedRoses* (selected for Oprah Winfrey's Documentary Club on OWN TV) and *Blood Relatives*, and short fiction work *In the Deep*.

"DGC Ontario and WIFT-T's support means so much to me! Working with innov-

active leaders in Canada's film industry and attending TIFF this year is going to make a big difference for my latest project *Tempest Storm*," Mukerji said. "I wouldn't be receiving this mentorship without encouragement from Jennifer Baichwal, who inspires me not only as a Canadian filmmaker, but as a female director. Thank you!"

Mukerji is an alumna of TIFF's Talent Lab 2011 and sits on the boards of DOC National and POV Magazine. She was the 2014 recipient of the WIFTV Artistic Achievement Award and the 2015 UBC Young Alumnus Award.

## Spectrum Allocation Statement from WBU

The use of radio-frequency spectrum by broadcasters remains the most important vehicle for the efficient and scalable delivery of high-quality media content and emergency alerting services to both fixed and mobile

audiences, according to a statement released by the World Broadcasting Unions' (WBU).

The WBU does not support any change to the current spectrum allocations at UHF frequencies (470 –694/698 MHz), and it reaffirmed its position on Spectrum Allocation, which will be discussed in November at the World Radio Conference (WRC-15).

Contiguous spectrum should be allotted in the bands assigned to the broadcast service to allow for the robust delivery of high-quality media content, data and signaling that meets or exceeds the capabilities of current fixed and mobile reception and display devices as well as those that are expected to be deployed in the future.

The WBU does not support any change to the current spectrum allocations at C-band or extended C-band frequencies. The use of downlink spectrum allocated at C-Band (3.7 – 4.2 GHz) or extended C-band in the Fixed-

Satellite Service (FSS) is essential to broadcasters' operations around the world. Systems employing this FSS band have been extensively deployed over decades, primarily for the distribution of content from network centres to affiliated stations, cable head-ends and to other receiving systems.

This WBU position has been supported by spectrum studies both at UHF and C-band frequencies which have demonstrated that major interference to broadcast operations would result from sharing in these bands with IMT. These studies have been filed with the ITU. The WBU will continue to participate actively in spectrum studies of the radio-frequency bands both assigned and associated with broadcasting, in order to ensure the continued efficient use of these bands for broadcast media content distribution.

The North American Broadcasters Association (NABA) acts as secretariat for the WBU.

## Powerful New Mini-Converters

### HB-R-HDMI and HB-T-HDMI Signal Extension Over Ethernet

The HB-T-HDMI and HB-R-HDMI offer an easy solution for extending UltraHD or HD HDMI signals over existing Cat5/6 or 7 Ethernet cable, utilizing the industry standard HDBaseT protocol. Bi-directional IR and RS-232 for device control is also supported, making these Mini-Converters ideal in a variety of scenarios.



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## Intuitive Aerial Opens Americas Office in LA



The Aerigon has Landed



The Aerigon Gimbal features an advanced stabilization system to work with heavy cameras.

Intuitive Aerial, manufacturer of the Aerigon professional cinema drone, has opened a new Los Angeles office to handle sales and service throughout the Americas, working with aerial cinematographers, drone pilots, camera operators, directors, and major studios.

The Aerigon is a serially manufactured, six-armed professional cinema drone built for use with Hollywood-standard cameras and lenses. With a manufacturer-approved payload capacity of 35 lbs., the Aerigon is able to carry over 20 lbs. of camera equipment, along with the gimbal, the company reports.

The aircraft features a dual coaxial design with 12 counter-rotating brushless motors, each sporting twin blades. A carbon fibre exoskeleton conceals and protects cables from external stress, and detachable arms adapt the platform

depending on the location or the type of shot required.

The Aerigon Gimbal features a proprietary advanced stabilization system that works with heavy cameras, including professional zoom lenses and full FIZ (Focus, Iris, Zoom) controls. Sturdy, detachable legs ensure soft landings and form a protective cage around the camera and lens.

The new office is run by Eric Bergez, vice president at Intuitive, who brings more than 20 years experience in production, postproduction, and distribution to the post.

Aerial technology and drone cinematography techniques are a hot topic at major industry conferences and exhibitions like NAB and IBC; fully enclosed “flying cages” have been deployed for demonstrations and up-close looks at the technology in action.

## New Digital and Encoded Remote Head from Egripment



Egripment Support Systems' new 306/D Digital and Encoded Remote Head is intended for use with larger ENG and cine cameras for studio and virtual/augmented reality (VR/AR) sets.

Available as a standalone system or as part of a larger studio automation set up, the 306/D comes ready to use for a variety of VR/AR sets. It comes standard with 360-degree freedom; an ultra-high resolution encoder; limit switches; an adjustable camera platform; and zoom and focus speed, electronic damping and Ethernet data controls. A variety of Teleprompter brackets are also available.

Companion pieces for the 306/D include the joystick-controlled 336/DCB

Digital Control Box and optional 336/TPM Touch Screen Module and Software. With storable options, menus and controls for six digital remote heads, the 336/D comes standard with pan, tilt, zoom, focus, dolly track, electric camera and limit switches. It can switch between as many as six heads or easily control combined heads and allows for up to four operators to tune and store their control preferences. An additional option of the 336/DCB is the 336/TPM, to program digital remote heads and camera movements/positions from a touch screen interface. It also has presets for camera positions in pan, tilt, zoom and focus or repeatable camera movements.

New Digital and Encoded Remote Head



## ProMAX, Jump I.T. and Tendril Meet Increased Performance Demands

Tendril Design & Animation is a design, animation, and VFX studio based in Toronto, working with a number of production and graphics software packages, including Adobe Creative Cloud, Autodesk 3ds Max, Maya and Flame. For a number of years, like many other post production shops, they had grown “organically”. The storage infrastructure consisted of multiple data servers, but it was straining with almost 50 users connected via a one GB net.

Tendril partner Patrick Coffey started identifying solutions and researching shared storage options; it was clear that a new server array and network infrastructure would need to perform flawlessly under ever-increasing workloads, as Tendril moved to six- and seven-day workweeks to meet growing client requirements. Product stability and support were a must.



ProMAX Launches New Series 4 Platform Workflow Servers

Working with Canadian ProMAX Integrator Jump I.T., a ProMAX Platform was identified, with 10 gig connections

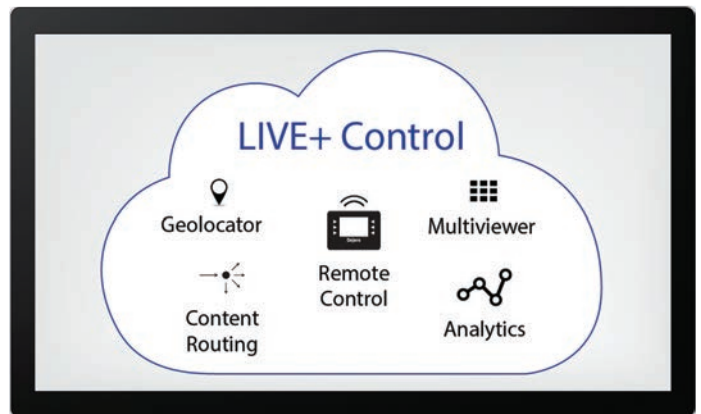
directly to a ProMAX Platform Server and the ability to offload renders to gain a higher bandwidth connection to the workstations that needed it, previously not possible in the one gig topology.

Media Asset Management tools and Archive-to-LTO capabilities were integrated into the system, and they quickly became critical to the overall work environment. To exceed the high performance requirements of the company’s VFX workflow and Autodesk Flame workstations, Tendril and Jump I.T. deployed the ProMAX Platform Online with an upgraded Extreme performance option, giving up to 1100 MB/s on the single chassis. The platform can be integrated easily with existing IT infrastructure, utilize existing copper & fibre cabling, and connecting with older RAID arrays to create a multi-tiered storage network.

## Dejero’s LIVE+ Control

is a next-generation cloud-based management, monitoring, and reporting tool that simplifies IP video workflows used in remote broadcasting productions. LIVE+ Control manages all Dejero LIVE+ video transmission solutions including EnGo, GoBox, VSET, NewsBook, and Mobile App. By accessing the intuitive LIVE+ Control interface from any Web browser, users can geolocate and remotely control their fleet of field transmitters.

Dejero’s Cloud-based LIVE+ Control



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## SmallHD's New 500 Series Updated

SmallHD has a big set of free features for the new Sidefinder and the as 501 and 502 Full HD 5-inch on-camera monitors in a firmware upgrade. Version 2.0 unlocks the ability to output video containing an embedded 3D LUT to other devices downstream using HDMI, SDI or both at the same time.

SmallHD's new 500 Series monitors and Sidefinders deliver 1920 x 1080 resolution images on five-inch screens with core features like framing guides, focus assist, false colour and zebra exposure indicators, as well as 3D LUT import capability. Features like waveform, image capture and audio metres, DSLR Scale and anamorphic de-squeeze were added later.

Now, version 2.0 instantly adds the ability to convert signals from HDMI to SDI and vice versa. Using either an HDMI or SDI input, these 502 displays can now output both HDMI and SDI at the same time, providing tremendous flexibility for monitors and/or recording devices downstream. Shooters may choose to send the SDI stream to their B camera operator, while connecting HDMI output to a wireless transmitter to send to the video village for the client.



SmallHD delivers 1920 x 1080 images on five-inch screens

In addition to dual simultaneous outputs, a look or 3D LUT can now be sent downstream via SDI and HDMI. 3D LUTs typically come from colour grading applications and are used by SmallHD monitors to provide a clear idea of what a live shot will look like as a finished product. Using a 500 Series

product, downstream LUTs can be assigned independently of what is being viewed on the display with a system of presets. A specific output page shows exactly what signal and LUT is being sent downstream, freeing the operator to set up tools on other pages to check focus and exposure without impacting the downstream or client signal.

Finally, several other convenient tools have been added: RGB Parade, which shows a waveform for the three primary colours in the video signal,

SDI metadata can now be accessed and displayed on the monitor, adjustments to brightness and contrast can now be made in the settings menu, and all the customizable settings and pages can be saved as a "profile" onto an SD card for future use with a specific camera type or for matching up other 500 Series monitors.

## Dejero's LIVE+ GoBox

is a professional-grade, cost-effective mobile transmitter for newsgathering professionals on the move. GoBox is the company's most rugged solution, and it enables mobile journalists to broadcast live from virtually anywhere with bonded cellular, Wi-Fi, and portable satellite connections, or record up to 40 hours of HD video for later broadcast.



Dejero's LIVE+ GoBox



## Autoscript Debuts E.P.I.C. 19

Autoscript is showing its E.P.I.C. 19 Enhanced Prompting Information Centre (E.P.I.C.) teleprompter systems with a new display remote control.

The E.P.I.C. 19 can display prompter text and transmit images to talent. It features dual SDI inputs, one for the prompter monitor and the other for the talent monitor, and an integrated tally light. The 19 inch LED prompter monitor is backlit, while the super thin on-air monitor delivers crisp and clear images to talent.

By combining both monitors in the same system, the E.P.I.C. 19 eliminates the need for additional components and a mounting assembly; with no mounting bracket, the full tilt range of the camera can be used.

The new E.P.I.C. display remote control will be a standard element on E.P.I.C. systems (there is a 17 inch model), and can control both the talent and prompting monitors. The infrared control allows the talent to select the video feed on both monitors, and because each remote is unique to the specific E.P.I.C. system it is operating, multiple talent can select their own video feeds in multi-camera studios.



Autoscript's New E.P.I.C. 19 Teleprompter

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#### Product Spotlight

##### Chroma-Q Studio Force 12 Phosphor LED Fixture

The Chroma-Q Phosphor LED studio daylight and tungsten models provide a beautifully soft, even light source with a massive output for their compact 12" 300mm size. The variable white model includes DMX and remote on-board adjustment of hue, saturation and level, to control colour and fine-tuning of the green and magenta tints. Their versatile feature set makes them ideal for studio and location work.

[read more](#)

##### Vidchecker

Vidchecker is the next generation in automated QC of file-based video during production as well as before and after distribution. The GUI is accessed via web browser on the local machine or over a network. Vidchecker enables broadcasters to automatically check files received from post and content distributors to ensure file format, video and audio parameters and levels are broadcast ready. Using patented intelligent algorithms Vidchecker also provides auto correction of video and audio levels to broadcast specifications.

[read more](#)

##### PXW-X200

The PXW-X200 three 1/2-type Exmor™ CMOS sensors compact XDCM camcorder delivers high sensitivity and low noise recordings in Full HD XAVC Intra and XAVC Long GOP, as well as MPEG HD 422 to Alpha MPEG HD 422 VS Alpha, MPEG IMX and DV. As the successor of PMW 200, the PXW-X200 has a lot of innovative features, including dual 64GB memory card slots for simultaneous recording, cache recording, Slow & Quick function, a 3.5 inch type QHD (2048 x 1536) colour LCD panel and a 17x Fujinon professional HD zoom lens with three independent rings with and stops, able to zoom from 24.3mm to 419mm (3.9mm equivalent). The PXW-X200 also has a built-in wireless operation capability, and also offers remote control, file transfer, monitoring via smartphones and tablet devices, and streaming.

##### PXW-F87

PXW-F87 XDCM camera has an ergonomic and design for easy handling and operability, making it ideal for one-man operation in situations where the extraordinary flexibility of its mount lens system and compatible interchangeable lenses can be used to maximum advantage. It features a 4K Super 35mm Exmor CMOS sensor and support for shooting in 4K\* 50p or Full HD at high frame rates up to 180 fps (frames per second). Selectable recording formats include XAVC, which supports 4K\* 50p, Full HD 60p even in 4:2:2 10-bit recording, as well as the common MPEG-2 HD 422 format used by many broadcast stations around the world. Attach an optional Evolution Unit (EUC-AF57) to open up the possibilities of multi-camera shooting and ProRes 422 encoding\*\*. Combined an XDCM AFHS interface and AFD-F85 recorder to support multi recording and 4K/2K RAW recordings up to 240fps in 2K.

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## MSE Introduces Montrealers' KerriKart



The new KerriKart acts as a dolly, cart and slider support solution.

Matthews Studio Equipment's new KerriKart was designed by Montreal-based Director of Photography Bill Kerrigan to incorporate traditional cart support with a capacity to add a slider to the package.

Kerrigan had been using the same industry standard equipment dolly for years, but when he added a slider to his kit, he needed a second cart to transport two sizes of C-stands, sand bags and slider gear. He designed a dolly that combined a cart and slider together.

"When Bill brought us his cart design,

we were excited to become involved with this new product," said Robert Kulesh, Vice President of Sales and Marketing for MSE, in a release announcing the new product. "As with all of MSE equipment, the KerriKart is strong, tough and durable but it is also light enough for one person to lift. It breaks down and sets up in less than five minutes. Due to the pneumatic tires, it is easily manoeuvrable and takes on all kinds of rough terrain and natural elements with ease."

The addition of slider capabilities means rails/shelf can be used from

ground level to over six feet, and the KerriKart accommodates two speed rails for a slider dolly as a stable base for sliding without C-stands and sand bags. It will also accommodate any size camera and lens.

It can accommodate 4-foot, 6-foot and 8-foot speed rails, the top shelf and rails can be attached at almost any height and the shelf will fit on either the top or bottom of the cart. Four riser pins area included to hold a monitor, a soft light and a sound boom, among other features.

## Roland Introduces Compact Live Mixing Console

Roland's Professional A/V division has added the new M-5000C Live Mixing Console to its line of O.H.R.C.A.-based consoles; measuring less than 74 cm in width and weighing just 32kg, the compact M-5000C has many of the features of the flagship M-5000.

Along with a 96 kHz sampling rate, the M-5000C has a 72-bit summing bus, newly designed, discrete analog circuitry and redundant power supply. In addition to 16 inputs and 8 outputs on the console, the M-5000C has two expansion interface slots that can accommodate REAC, Dante, MADI, Waves SoundGrid and other XI-Series expansion cards.

Control includes a 12" colour touchscreen; 20 channel faders in three groups; anchor points; DCA spills; multi-function knobs and buttons; and a user

assignable section. Remote control software (Mac/Windows) to extend the user interface beyond the built-in GUI and onto external monitors is expected.

The O.H.R.C.A. (Open High Resolution Configurable Architecture) platform provides a mix engine of 128 freely definable audio paths; open audio architecture supporting Dante, MADI, Waves SoundGrid, and REAC audio protocols; and audio delivery over video using SDI, DVI and SFP cabling. Built-in REAC ports support seam-



Roland's new M-5000C Live Mixing Console, pictured with iPad.

less integration from the console for multi-track recording/playback, Roland M-48 personal mixers, and a plethora of I/O box choices, all at high-resolution 24-bit 96kHz.



## Leader Instruments LV5490 in 4K/UHD Mobile Production Unit



Leader's multi-mode waveform monitor rides with the new 53 foot 4K/UHD Mobile Production Unit from Mobile TV Group.

A Leader Instruments LV5490 4K/HD/SD-SDI multi-mode waveform monitor has been chosen by the Mobile TV Group in its all-new 53 foot expando unit for sports and entertainment productions using up to 14 4K/UHD cameras. North America's first 4K/UHD mobile production unit was designed to be a major boost for the production and delivery of live 4K content to the home.

Other equipment on the mobile unit includes Grass Valley 4K/UHD 2/3 inch cameras and K-Frame/Kayenne 4K switcher, a Calrec Artemis mixer and Kaleido multiviewers. A networked-configured Dyno/K2 4K replay system as well as EVS and Evertz replay systems have been demonstrated on the truck. The trailer chassis was built by Gerling & Associates and finished and integrated by Colourado Studios.

Equipped with eight input connectors, the Leader LV5490 accepts up to two 4K signals simultaneously. In the 4K video format mode, 3G-SDI dual link or quad link are supported. Up to four 3G-SDI dual link 4K video inputs or up to two 3G-SDI quad link 4K video inputs can be displayed (selectable). Two sets of HD-SDI dual link signals can be displayed (selectable). In the SDI mode, up to four signals can be displayed simultaneously.

The LV5490 is also equipped to handle video signals via two-sample interleave as well as square division. Two-sample interleave is the approved standard for 4K.

In development since last May, the first 4K mobile unit will be ready for its first

production in mid-to-late 2015, and MTVG reports it is accepting bookings now.



This and future 4K trucks have been built to make it routine to produce in 4K as well as HD.

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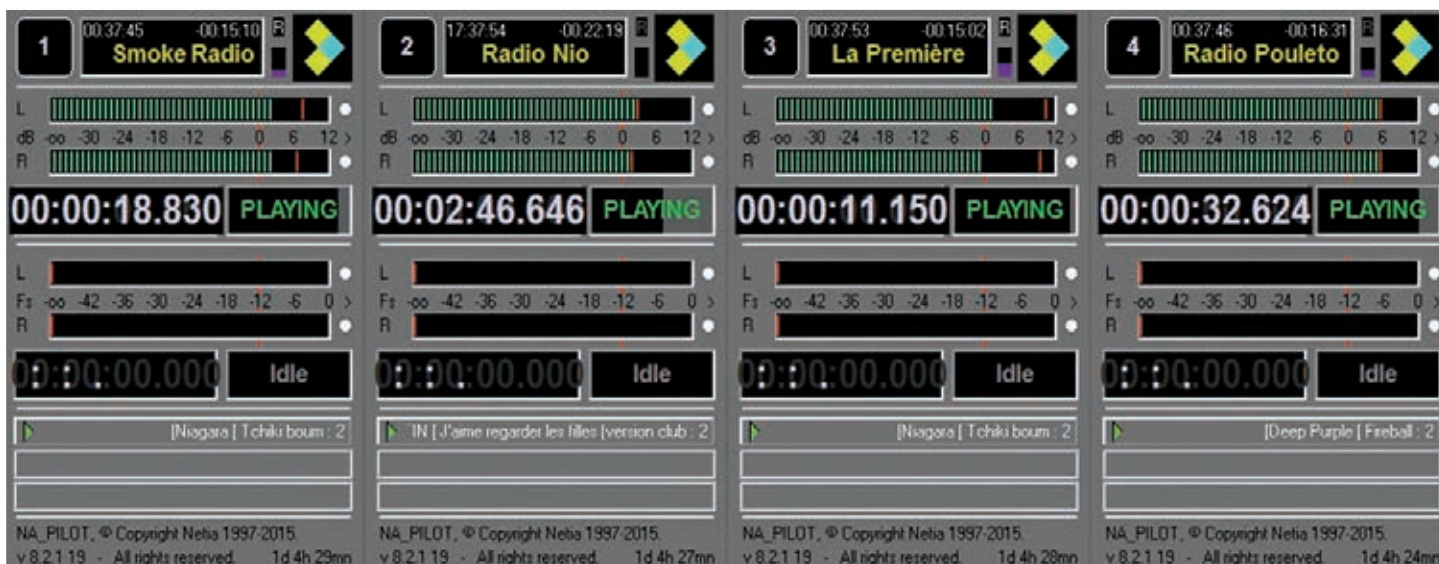


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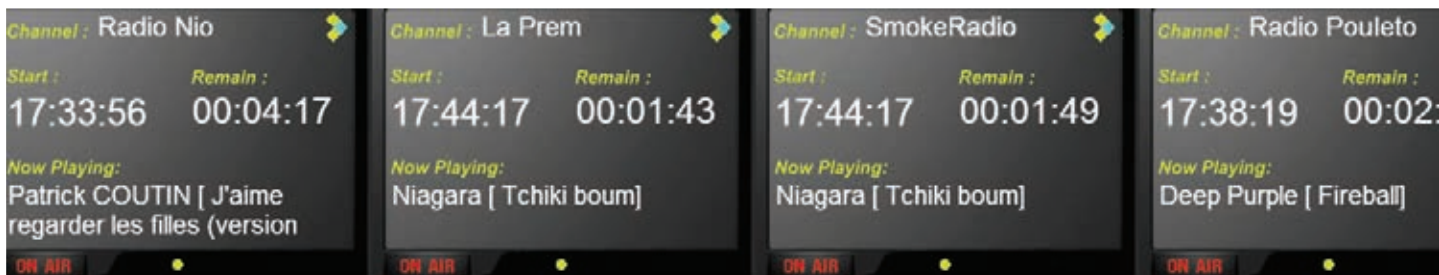
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## NETIA AirPlay and Radio Assist Media Management and Publishing Tools



Audio pilot module and AirPlay List



Web-based media monitoring with AirPlayList

NETIA is showing new product features for multichannel radio playout and new capabilities that enrich multimedia production, as well as mobile and remote production workflows. The company also offers solutions to integrate complex production ecosystems and for the publishing of content and data to the second screen.

NETIA Media Assist software suite's new AirPlayList 2.0 module allows for automated playout of multiple radio channels simultaneously and with guaranteed redundancy. Because the module is AES67- and audio-over-IP-compliant, users can broadcast either from a traditional physical sound card or using IP-based virtual drivers.

Built on a distributed architecture, the AirPlayList 2.0 module's UI offers centralized control and monitoring of many different playout systems installed across different servers. Users can access and broadcast media or channels located within separate databases rather than one central database. With the module's Web-based interface,

remote users can access the module to monitor or supervise playout on each channel and check the status of media.

The AirPlayList 2.0 module has a one-to-one redundancy or a one-to-N option, in which a dedicated pool of servers can be used so that even in the event of a disaster, the manufacturer describes, a secondary server can recover media and ensure an uninterrupted broadcast.

NETIA's multiple-device interface for audiovisual media management, Radio-Assist, and radio automation module enables content editing and repurposing of branded multimedia, and then automates publishing to online platforms. Field staff can use a laptop, tablet, or smartphone running on iOS, Windows or Android and get remote access to content search, browse, ingest and edit tools; and then export and publish audio and/or video media on a CDN platform.



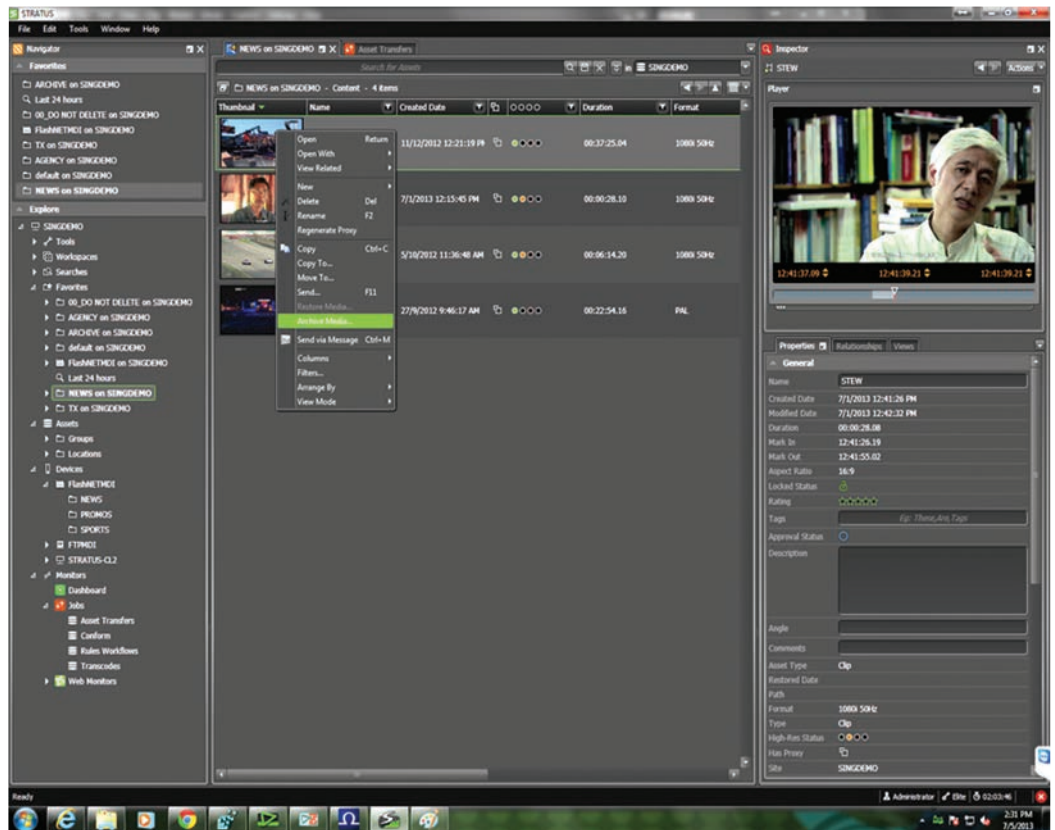
## New Technology and Third-party Integration Projects from SGL

SGL's FlashNet content management solutions for broadcast, post production facilities, and news/sport organizations are on display at industry events like IBC, integrated with a number of well-known third party manufacturers.

SGL shows a full archive solution using GV STRATUS, hosted by a Grass Valley presenter to demonstrate full search, archive and restore capabilities integrated directly with FlashNet, which can also control job queue directly from GV STRATUS.

Direct Connect allows Avid ISIS users to transfer high resolution (4k and 8k formats) material as clips or sequences over several GBs in size for archiving and retrieval, as can shorter clips with high bit rates such as HD trailers and commercials.

With cloud storage playing an increasingly important role in archiving workflows, SGL is collaborating closely with both Aspera and Data Expedition to enable broadcasters and content owners to transfer media to AWS and Sony cloud services at a guaranteed speed, providing an additional means of storage and disaster recovery.



SGL is underpinning a full archive solution using GV STRATUS.

SGL is also unveiling its new, entry-level FlashBox content storage management system 'in a box', including all the elements of an integrated Hierarchical Storage Management (HSM) yet no need to purchase any additional

hardware or software. As well, the latest version of FlashWeb brings enhanced search capabilities and a simplified navigation interface to material archive and restore activities with any configured FlashNet disk or tape group.



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## VITEC Aces Portable HEVC Encoders, IPTV Systems

VITEC is introducing its new MGW Ace appliance, a 100-percent hardware-based HEVC portable device for encoding and streaming video. The device features a low-power HEVC (H.265) bandwidth-efficient compression chip as well as legacy H.264 capabilities, and is equipped with a wide selection of I/Os for any audio or video streaming, as well as KLV metadata requirements whether in the field or on the move.

Also being shown for the first time at IBC is the MGW D265 Portable H.265 & H.264 IP Decoder. Specifically designed to provide decoding for any IPTV and full-motion-video application, and supporting HEVC (H.265) compression technology, the MGW D265 is reported



Vitec's New EZ IPTV



HEVC Encoding with VITEC Ace

to give IP video applications up to a 40 per cent savings in network bandwidth compared to the H.264 format. The decoder provides connectivity options such as HD-SDI, SD-SDI, HDMI, and composite video while offering incredibly low end-to-end latency of 400 milliseconds.

The VITEC Focus FS-H50/60/70 are portable H.264 standard and HD recorders with a resolution range up to 1080p30 and bit rates up to 8 Mb/s; the three models include composite and analog audio inputs, an HDMI input, and an HD/SD-SDI input, respectively.

VITEC's EZ TV IPTV system delivers live, on-demand, or recorded video over an existing IP infrastructure, and is now equipped with a new add-on for IPTV settings with quality



Four SDI Feeds on Single Monitor



Portable IP Decoder

system enables organizations to edit, archive and share media assets within the organization and with credentialed third parties, including high- and low-resolution video as well as audio, graphic, and data files. At IBC2015, Proxsys V.8 will be unveiled.

The Extensor SDI4Mosaic connects up to four SDI feeds on a single mosaic display, and converts a 4K HD-SDI video source to a standard HDMI monitor. SDI4Mosaic automatically creates a mosaic of up to four video channels and displays on compatible monitors, and it allows two video channels to be compared and displayed in various layouts.



## BenQ Sees Monitors for Professional Video Editing, CAM/CAD, Photography

BenQ's new PV3200PT purpose-built monitor is for professional video editing applications. Featuring 4K UHD resolution, the 32-inch device delivers 10-bit, 100% sRGB colour, following the Rec. 709 standard. The PV3200PT specializes in reproducing colour tones with a Delta-E value of less than or equal to two, the company specifies, and it features a 14-bit 3D Look Up Table (LUT) for accurate colour mixture and improved RGB colour blending. In addition, the monitor offers a brightness uniformity function for a consistent image across the entire display by balancing brightness to a deviation and chromaticity less than 10 per cent.

With height, tilt, pivot, stroke, and swivel physical adjustments, the PV3200PT also has hardware calibration so users can adjust the unit's image processing chip without altering graphic card data. An OSD controller can be used to switch seamlessly between various modes and settings.

BenQ's 27-inch SW2700PT photography monitor uses a high (QHD 2560x1440 resolution) pixel count, 10-bit colour simulation, and 99% Adobe RGB to reproduce precise details in digital photography projects. For 3D printing, CAD, and CAM applications, BenQ is demonstrating its 4K UHD BL3201PH 32-inch professional monitor with 3840 x 2160 resolution. The device also features picture-in-picture and picture-by-picture for switching between screens when working on multiple projects.

BenQ's BL2711U 27-inch 4K2K 3840 x 2160 monitor was specifically created for designers, the manufacturer reports, combining 100% sRGB with its IPS technology in a precise 10-bit panel that renders over one billion hues. Certified by SolidWorks, the BL2711U also covers the Rec. 709 colour space. The monitor provides a 1000:1 native contrast ratio and 20M:1 dynamic contrast ratio.



New Pro Monitors from BenQ


## Dejero's LIVE+ Mobile App

enables mobile journalists (MoJos) and video contributors to broadcast live from virtually anywhere with their smartphones or tablets. The easy-to-use solution is ideal for covering breaking news, impromptu interviews, and live events, and provides an excellent backup system if the primary camera or transmitter fails.



Dejero's LIVE+ Mobile App


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## BBS Intros Pipeline System Remote Phosphor Lights



New Portable Phosphor LED Fixtures from BBS

BBS Lighting new Pipeline System remote phosphor LED lights offer colour rendered, fan-less operation for both daylight and tungsten balanced output, with wireless DMX control and AC or DC power operation.

For on-camera location correspondents who deliver their reports via Skype or Messenger from a webcam on a desktop, BBS offers Pipeline Reporter 3200, 4300 and 5600 Kits. The remote phosphor LED fixtures deliver modeled lighting with a high CRI under a wide range of ambient lighting conditions. The footprint of each fixture is less than the computer mouse and set up takes just a minute, the manufacturer describes. Each two-fixture kit, with power accessories, comes in a lightweight case that easily meets onboard travel regulations.

The LED Flyer Boom LED boom

light and accessory kit provides soft bi-colour output along with rapid setup, especially valuable for fast moving production. The LED Flyer can be used at the end of a boom pole, with colour and dimming controls -- as well as blackout -- on a remote control module worn on the user's accessory belt. Users can dial in light output across the entire daylight to tungsten range and dim it from 100% to zero with no colour shift, the manufacturer reports.

BBS Lighting's K7 LED Display fixture attaches to most surfaces via a strong neodymium magnet, and can be oriented in any direction. Beam control is provided by quick-change lenses and honeycombs. The fixture comes with a choice of 2W 3000K, 4000K or 5600K or 2W LEDs. The power supply runs off 120-240 VAC.

## ChyronHego, Hybrid Partner on Virtual Set Solutions

ChyronHego and Hybrid have a new partnership to develop and market virtual studio and robotic camera head technologies.

Through the partnership, ChyronHego will serve as an OEM for Hybrid's technologies but retain the Hybrid branding and positioning for the Neon (trackless) and Krypton (tracking) virtual set solutions.

ChyronHego will act as the primary sales and marketing organization for the Hybrid products, and Hybrid will work closely with ChyronHego to continue developing the products in alignment with ChyronHego's overall strategy for virtual and augmented reality solutions.

Virtual and augmented reality solutions for broadcasting are now able to deliver photo-realistic options for the studio environment, and solutions that are also applicable in sports, a very large growth market for ChyronHego.

Hybrid's tracking virtual set solution offers multiple video inputs and outputs (for example, a single Platinum rendering engine can support three live streams in and out, for a one-to-one relationship with the house switcher). Any combination of up to six HD input/output options is supported. Sources for live video inputs can be cameras, video recorders, or any live feed. The engine is able to output in streaming format (RTMP, etc.). Several concurrent outputs are supported.



Hybrid and ChyronHego work on virtual sets, robotic cameras.



## ATG Danmon at IBC2015

ATG Danmon is promoting its range of broadcast systems planning, design, installation, commissioning and post-installation support capabilities at IBC2015, and exhibiting with a number of Danmon Group colleagues.

ATG Danmon has assisted international clients in the construction of high-definition studios, master control rooms and playout facilities, as well as the upgrade of existing SD systems to HD, and helped pioneer the transition from videotape to the file-based technology now used throughout the industry.

Systems integration projects currently in progress or recently completed include playout facilities for Trinity Broadcasting Network UK and Europe, including ingest, media storage and compliance recording; a playout system for a major playout service-provider on behalf of a Middle East based media and entertainment organization; the complete upgrade of an existing studio facility to HD for a Middle East state broadcaster; a 50-channel broadcast



Inside the new playout facility provided by ATG Danmon for Trinity Broadcasting Network UK and Europe.

media compliance system for a Middle East transmission service authority, an ingest and transcoding system for Telegael in Ireland and a transcoding and file playout system for ABS Broadcast, UK.

## Audio-Technica Delivers on Broadcast Microphone

Audio-Technica is shipping its BP40 large diaphragm dynamic broadcast microphone for a variety of applications including radio, overdubs, post-production, podcasting and more.

The mic has a hypercardioid polar pick-up pattern, optimized capsule placement and multistage windscreen. It also includes a switchable 100 Hz high-pass filter to provide even more pop protection.

It has a frequency response of 50-16,000 Hz, with low frequency roll-off at 100 Hz, 6 dB/octave. Open circuit sensitivity is rated -48 dB (3.9 mV) re 1V at 1 Pa, with impedance of 450 ohms.

The BP40's large diaphragm features patented floating-edge construction that maximizes diaphragm surface area and optimizes overall diaphragm performance, while the humbucking voice coil prevents electromagnetic

interference from video monitors and AC power.

The all-metal construction BP40 comes standard with the AT8483 mounting clamp, and for additional protection from noise, shock and vibration, the optional AT8484 shock mount is available separately.



Audio-Technica's new BP40 Dynamic Broadcast Microphone with AT8484 Shock Mount (available separately).

## Dejero's LIVE+ NewsBook



Dejero's LIVE+ NewsBook Software for Mac

software transforms a Mac notebook into a highly versatile "go-anywhere" video uplink solution for transmitting live HD or SD video feeds, as well as recorded and edited files, back to the broadcast facility. The flexible solution is used by everyone from correspondents of major networks to mobile media journalist that act as reporter, producer, editor, and on-air talent to create a virtual news bureau from any location.

Dejero's LIVE+ EnGo is a compact camera-mounted or wearable transmitter that encodes H.264 video and transmits it over multiple IP networks, delivering exceptional picture quality with extremely low latency. The LIVE+ EnGo is simple to set up and use and leverages cellular, Wi-Fi, Ethernet, and portable satellite connectivity for reliable live broadcasts from virtually anywhere.



Dejero's LIVE+ EnGo, Compact and Modular Transmitter for Remote Video Acquisition

## Compact 4K Recording Monitor Now Shipping

Video Devices' PIX-E5 4K recording monitor and SpeedDrive recording and file-delivery accessory are now shipping. The five-inch, 1920 x1080 resolution unit comes with a suite of precision-monitoring tools, SDI and HDMI I/O, plus the ability to record 4K and Apple ProRes 4444 XQ edit-ready files to affordable USB-based SpeedDrives with mSATA solid-state drives.

PIX-E5 includes monitoring tools such as TapZoom for focusing speed, false colours and zebra, to help set exposure,

PIX-E5 monitor features compact, die-cast metal housings and an LCD display protected by Gorilla Glass 2.

When connected to the rear of the monitor, the SpeedDrive's USB 3.0 interface automatically switches to a SATA interface for recording continuous, high-data-rate 4K video. It plugs into any



Video Devices' PIX-E5 4K recording monitor and SpeedDrive recording and file-delivery accessory.

guide markers for framing, and a range of scopes, including waveform, histogram, and vectorscope. The new camera-mount monitor incorporates a "best-of-both-worlds" user interface that combines tactile buttons with a touch screen. The

USB computer port to transfer data at USB 3.0 rates. Two SpeedDrive options are available: a 240 GB SpeedDrive (enclosed mSATA drive) or an enclosure-only version that allows the user to choose any approved, third-party 128-GB to 1-TB mSATA drive.

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*continued from page 22*

mirrored the feeling of everyone in the crowded hall. The buttons almost popped off of our shirts as the as the Master of Ceremonies read Tamara's citation for investiture.

One of the many nominations in support of Tamara came from **Laurie Clarke** of the BC Women's Hospital+Health Centre Foundations. She told me, "Dick, through her work on behalf of BC Women's Hospital Tamara has raised awareness and has made a significant contribution to the women, newborns and the families who rely on [us]."

Tamara knows what it means to need a great hospital: she is a cancer survivor after a three-year battle, and she is the mother of three children, one born with Down Syndrome; a diagnosis she described as devastating at the time, but now as a beautiful gift to a wonderful family.

Her husband is **Dave Genn**, three-time Juno Award winning record producer and guitarist with the very successful Canadian rock band **54-40**, who surely has a schedule as hectic as hers.

"Yes, life is definitely busy," she told me. "Not just for me but for everyone." Yet still she makes time to volunteer. "When you truly enjoy volunteering, it isn't a chore: when you do things with an authentic heart, you don't worry about where you find the time."

Find the time? Surprisingly, this amazing achiever recently celebrated her 18th anniversary at CTV, and from one of its most prestigious chairs.

For others wishing to achieve success in this business, her advice is... "Everyone should be prepared to start at the bottom and work hard.

"I have been in media for 24 years. I have done so many different things in both radio and TV; each one has led me to where I am today. It may appear that I stepped into the anchor chair with ease and luck, but if you would have told me that I would be anchoring the *CTV News at Six* alongside **Mike Killeen** back when I was driving the CFOX Community cruiser with a fox mascot sitting beside me, I would never have believed you," she laughed. "Great things come from hard work and a positive attitude. A sense of entitlement is your worst enemy, not only in media but in life."

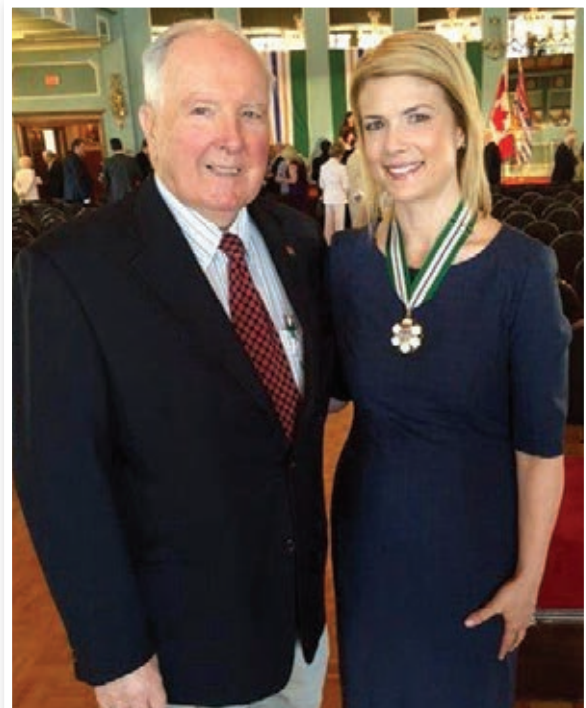
Now you know why she is successful and why Tamara Taggart, O.B.C. is another *Canadian Achiever*.

*For over 30 years Dick Drew has been reporting Canadian Achiever stories on radio, syndicated newspaper columns, a bestselling book, and in regular feature stories for **Broadcaster Magazine**.*



Tamara Taggart O.B.C. [centre] proudly wearing her Order of British Columbia medallion stand with BC Premier Christy Clark [left] and BC Lieutenant Governor Judith Guichon O.B.C.

Photo courtesy BC Government.



Dick Drew & Tamara Taggart

Photo by Mike Killeen

# Tamara Taggart, O.B.C.

## One Very Good Person

BY DICK DREW



Image from BC.CTVNEWS.CA

Tamara Taggart currently serves as the weekday anchor of *CTV News at Six* alongside Mike Killeen on CIVT-TV in Vancouver, British Columbia.

**T**he broadcast industry is peopled with those who go beyond their industry duties and dedicate themselves to serving the community in ways that often stagger the imagination. Our amazing industry, from top to bottom, volunteers their radio or TV station and themselves beyond any other industry imaginable. Volunteering is in our DNA, than there are in heaven.

CTV Vancouver nightly news anchor **Tamara Taggart** is one person who continually goes beyond the extra mile: volunteering thousands of her hands-on hours and sitting on the boards of several non-profit organizations.

Her working life has taken her from radio and concert producer to weather presenter to morning show host to evening newscaster. She's hosted home reno shows, guest-hosted *Live!*

*with Regis and Kelly* for a day, and acted in various TV shows and minor movie roles.

Recently Tamara's work accomplishments and valued volunteer efforts were publicly honoured by the Province of British Columbia when she was presented with the Order of British Columbia and the right to proudly display the initials O.B.C. following her name.

She looked like a hundred million dollars on stage in Victoria when receiving the award from Premier Christy Clark and the Lieutenant Governor, The Honourable Judith Guichon, O.B.C.

During the impressive ceremony, my wife Aline and I sat next to several of her colleagues from CTV. The smiles on their faces

*continued on page 21*



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