

SONY



Live production

Making the moment special – on any scale, and for every budget. Capture the finest details with professional solutions for education, corporate, events, studios and outside broadcast.

www.pro.sony.eu



Professional live production solutions

Images are your business – and ours.

Partner with Sony and unlock your content's true value in any live production environment. We've got the unmatched technological know-how and experience to help you cut complexity and deliver bigger commercial returns with every project, regardless of scale.

We'll take you beyond definition, harnessing latest developments including HDR and expanded colour palettes to create electrifying 4K pictures that audiences can't resist.

From sports and entertainment to corporate events, web TV and remote production, the shape of live content creation is changing fast. We'll turbo-charge your workflow with smart new options like IP Live that dovetail seamlessly with current programme making infrastructures.

Trust Sony to help realise your business and technological vision – and keep you ahead of the competition with better-looking images, expanded creative options and lower costs.

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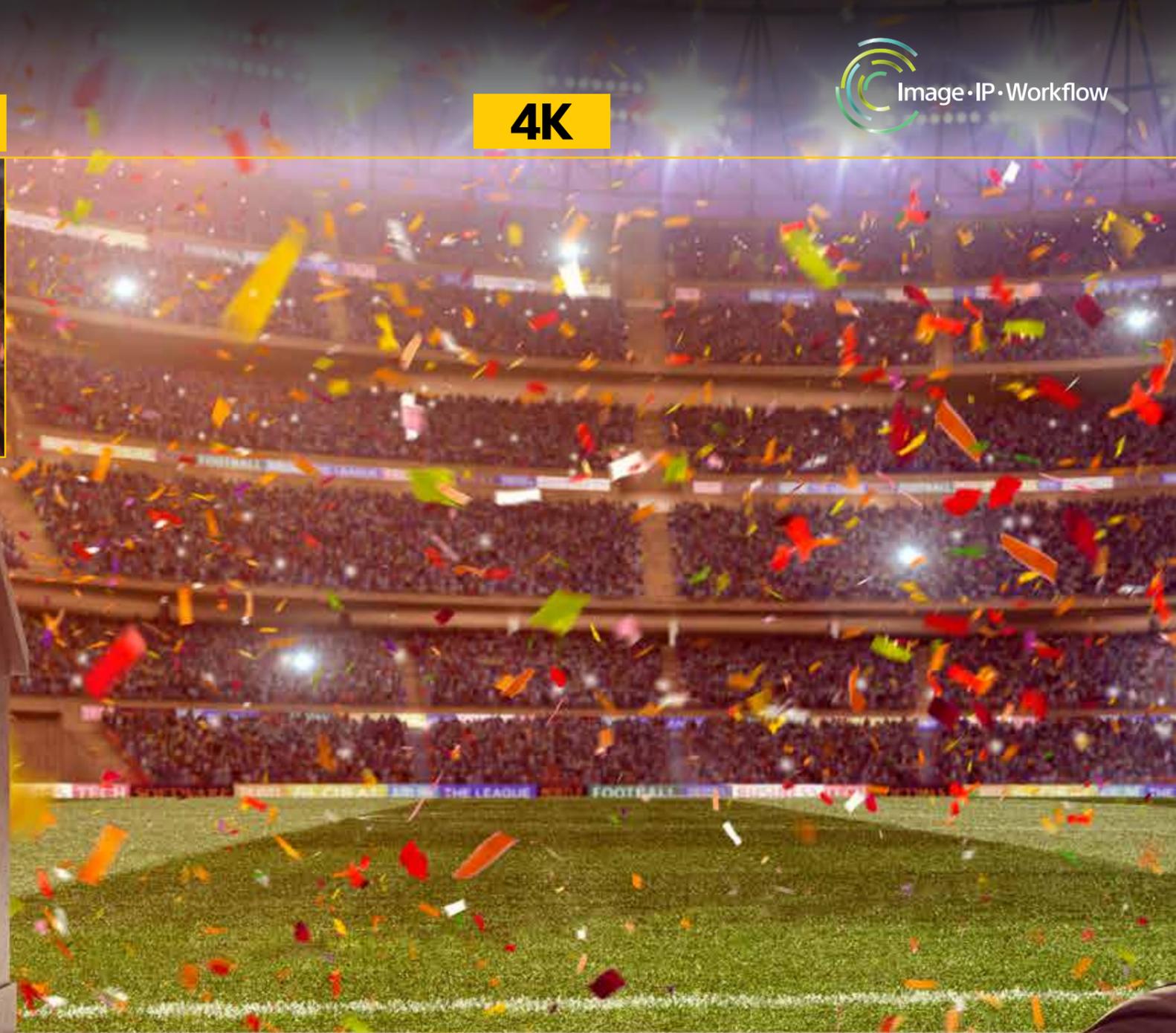
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4K live production



All the detail. For every audience.

Live production in 4K Ultra HD is a reality – whether you’re capturing sport, concerts and entertainment or important historic and cultural events. At Sony we’ve got the products, the solutions and the workflows to support 4K productions on any scale, from shooting to viewing.

New levels of immersive reality

From the first commercial TV broadcasts to online and satellite services - there’s explosive growth in the range of platforms for viewers to enjoy life-like action captured in 4K. And right now we’re leading the way in helping broadcasters and content owners bring stunning Ultra HD images to audiences worldwide.

Since 2013, our unparalleled 4K production know-how has been proven capturing a spectacular series of major live events capture. Along the way we’ve supported customers with several industry breakthroughs – including the world’s first native 4K system camera using 2/3” image sensors, the widely acclaimed HDC-4300. Today our technology, solutions and skills are available to everyone who needs to create immersive 4K live content.

By constantly refining the latest 4K technologies, we’re improving the delivery of true-to-life viewing experiences that make audiences to feel as if they’re really there.

Higher on-screen quality, wider workflow options

With four times the resolution of Full HD, 4K brings its own challenges in a live production environment.

We’ll take the headaches out of creating your own smooth, seamless 4K workflow, connecting camera chains to multi-format switchers, servers and monitors using the latest technologies like XAVC and now IP Live.

And remember – as well as future-proofing all your content, live production in 4K gives broadcasters even more workflow options, like high-quality HD ‘cutouts’ pinpointing a particular area of the whole pitch captured in 4K. What’s more, you’ll be able to derive highest quality Full HD deliverables to satisfy the widest range of distribution options.

4K innovation to suit every application

Sony offers a choice of 4K live acquisition solutions to suit every broadcaster’s creative preferences and operational needs.

Proven at hundreds of sporting and other live events worldwide, our acclaimed HDC-4300 4K/HD camera is now joined by the HDC-4800 Ultra High Frame Rate (UHFR) camera system. Partnered with the BPU-4800 4K baseband processor, this game-changing camera is

capable of shooting full-resolution Ultra HD images at up to 400P (8x) or Full HD at 800P (16x) to reveal split-second action.

As an alternative, many directors also enjoy the image quality and workflow options of our single-sensor F55 Super35mm CineAlta camera, rigged for live environments to deliver stunning, cinematic footage that viewing audiences love.



4K truly is a live production tool.

Bernard Ross,
UEFA Head of TV Production



HDR

live production



CASE STUDY

Sony's 4K live production technology captured every twist and turn of the on-track action in vivid detail at the 2015 Octo British Grand Prix MotoGP at Silverstone. Working with Dorna Sports, HDR images and 2x slow motion 4K were captured using four HDC-4300 cameras and recorded via two PWS Series 4K servers. Footage was displayed with exceptional colour fidelity on three BVM-X300 4K monitors, showing the race in a wider colour palette and with higher contrast levels than ever before.

Bring audiences closer to reality

HDR (High Dynamic Range) breathes even more life into today's live content, from thrilling sports coverage to concerts, opera theatrical performances and cultural events.

With a wider range of brightness levels from sparkling highlights to deep, intense blacks – plus an extended colour gamut – HDR brings viewing audiences closer to reality.

Combined with the higher resolution of 4K Ultra HD, live production in HDR ensures your content stands out in today's ultra-competitive marketplace, and tomorrow's. And that's why it makes sense to

join forces with a partner with the technical know-how and experience to make HDR an integral part of your 4K live workflow.

Your trusted HDR production partner With a matchless track-record in live production and OB systems provision worldwide, Sony can provide all the help you need – from technical and business consultancy to systems design and on-the-ground support.

We've been consistently at the forefront of significant innovations in live production, from High Definition to 4K. We're also a key contributor to industry discussions on standardisation, interoperability and other technical aspects. And that means no other company can offer broadcasters and live production specialists the same breadth of expertise and hands-on support that Sony does.



We've reached a critical point in the growth of 4K sports production. By shooting in HDR and HFR, we were able to capture incredibly detailed 4K footage that provided a viewing experience with all of the colour and excitement that the spectators at the circuit enjoyed.

Sergi Sendra, TV Production Director, Dorna Sports

From lens to living room
Amazing images are our business. And only Sony is uniquely positioned to contribute to your end-to-end HDR-enabled live production workflow, from lens to living room. From 4K system camera chains, switchers, servers and monitors to projectors and the latest BRAVIA televisions – we'll ensure your HDR production gives audiences the immersive viewing experience it deserves.

Stay up to speed
Broadcasters, facilities companies and freelance engineers are invited to learn more about live production in HDR with regular workshops, seminars and masterclasses hosted at Sony's Digital Motion Picture Centre Europe in Pinewood Studios. **Find out more at www.pro.sony.eu/dmpce**

Futureproof with HDR
Capturing today in 4K HDR takes full advantage of today's HDR delivery options – like the latest 4K Ultra HD televisions and projectors – while future-proofing your content for tomorrow's delivery platforms.

IP LIVE

production



Ready today, open for tomorrow

Broadcasters today are under pressure to create increasing volumes of better-looking content for less. Image quality has never been higher on the live production agenda, and the rapid shift towards 4K means more data, more cabling and greater technical challenges facing content creators.

With IP Live and Sony's Networked Media Interface, broadcasters and content creators can satisfy increasing market demand for 4K content – while addressing the cost and complexity issues associated with conventional SDI production workflows.

Harnessing the flexibility, resilience and scalability of today's IT-centric world, IP Live transmits video, audio, reference signals and control data between devices and systems using a single network cable. Multiple high-resolution video and audio, including HD and 4K, can be synchronously transmitted to multiple points with low latency, even over long distances. Just as importantly, IP Live meshes smoothly with your existing SDI-based production infrastructure.

Re-inventing live production workflow
IP Live makes programme production more agile, enabling smart new workflow options, fresh creative possibilities and reduced operating costs in a wide range of live studio, OB and remote production applications.

4K production becomes simpler, with a single fibre connection replacing the bulk and expense of quad 3G-SDI cables. Production resources can be readily shared, scaled or reallocated to meet changing needs. Hardware and processing resources can be decentralised, just like the IT industry's ubiquitous datacentre model. Vision mixing and audio control surfaces can be linked via fibre to servers and processing hardware in another room or off-site, freeing production crews from noise and clutter in the confines of an OB vehicle. With IP Live, you're no longer constrained by cables. The only limit is your business ambition.

IP LIVE



Standards based, effortlessly scalable
IP Live leverages the robust, proven physical infrastructure of the computing industry, overlaying standards and protocols for the real-time transport of rich media content in the rigours of demanding TV production environments. It's inherently future-proof, taking advantage of new standards and features through simple software or firmware upgrades. Just as importantly, broadcasters can migrate progressively to the benefits of IP Live at their own pace, adding IT switches to increase system capacity or connect additional production sites.

A fast-growing industry ecosystem
IP Live is here right now, and it's ready for business. Driven by Sony, the fast-growing IP Live Alliance already brings together more than 50 leading equipment vendors and technical partners in the live production space, offering broadcasters an impressive choice of IP-ready products and solutions, including system cameras, vision mixers, video servers, image processing and graphics, audio and more.

At Sony we're actively leading conversations around interoperability and open standards support, ensuring a vibrant third-party ecosystem and seamless interworking across all aspects of live production workflow – now and in the future.

We're here for the journey
Plan your smooth migration to the benefits of IP Live with Sony Professional Services. From initial consultancy and planning to technical implementation, operational support and training, we'll help design and deliver the ideal solution that complements your business goals and creative ambitions, today and tomorrow.



OLED

professional monitoring

OLED


The true reference in professional monitoring

Our innovative TRIMASTER EL™ OLED screens have revolutionised all areas of broadcast monitoring since their debut 2011, matching and even exceeding the quality of CRT technology that had been the industry standard for decades.

Winner of a Technical Emmy® Award for Outstanding Achievement in Engineering Development, TRIMASTER EL™ offers significant advantages over other OLED monitor technologies.

You'll enjoy unrivalled black reproduction with support for High Dynamic Range, together with an extremely wide colour space, accurate gamma and minimised motion blur.

With continual evolution of our own panel manufacturing process, the latest generation of TRIMASTER EL™ screens offers a virtually instantaneous response time measured in just microseconds – an order of magnitude quicker than possible with LCD.

Integrating seamlessly with today's IP Live production environments, BVM-X300 and PVM-X550 models are the natural choice for quality-critical 4K HDR workflows.

There are ordinary OLED monitors. And there's TRIMASTER EL™ OLED – the reference in professional flat panel displays that delivers clearer, more consistently accurate images every time.

With the deployment of TRIMASTER EL™ in the world of OBs and live broadcast it's now giving the entire food chain from live through to post a consistent viewing experience that allows everybody to accurately judge the content that they're creating.

Shane Warden,
General Manager, IMG Studios, IMG.



SRG-360SHE & BRC-Z330

Affordable HD/SD Robotic cameras and 1/3-inch CMOS CCD sensor HD/SD robotic camera



HXC-FB75

Affordable three 2/3-inch Exmor CMOS sensors HD/SD studio camera



HXR-NX5R

Full-HD Compact Camcorder 3CMOS with latest technology



AWS-750

Anycast Touch portable Live content producer



MCX-500

Multi-Camera Live Producer



MVS-3000A

Affordable compact HD/SD video switcher



LMD-B170

17-inch affordable Full HD LCD monitor with high picture quality and rich features set



DWZ-M70 & DWZ-B70HL

Digital wireless audio packages using 2.4GHz ISM band with high quality digital sound

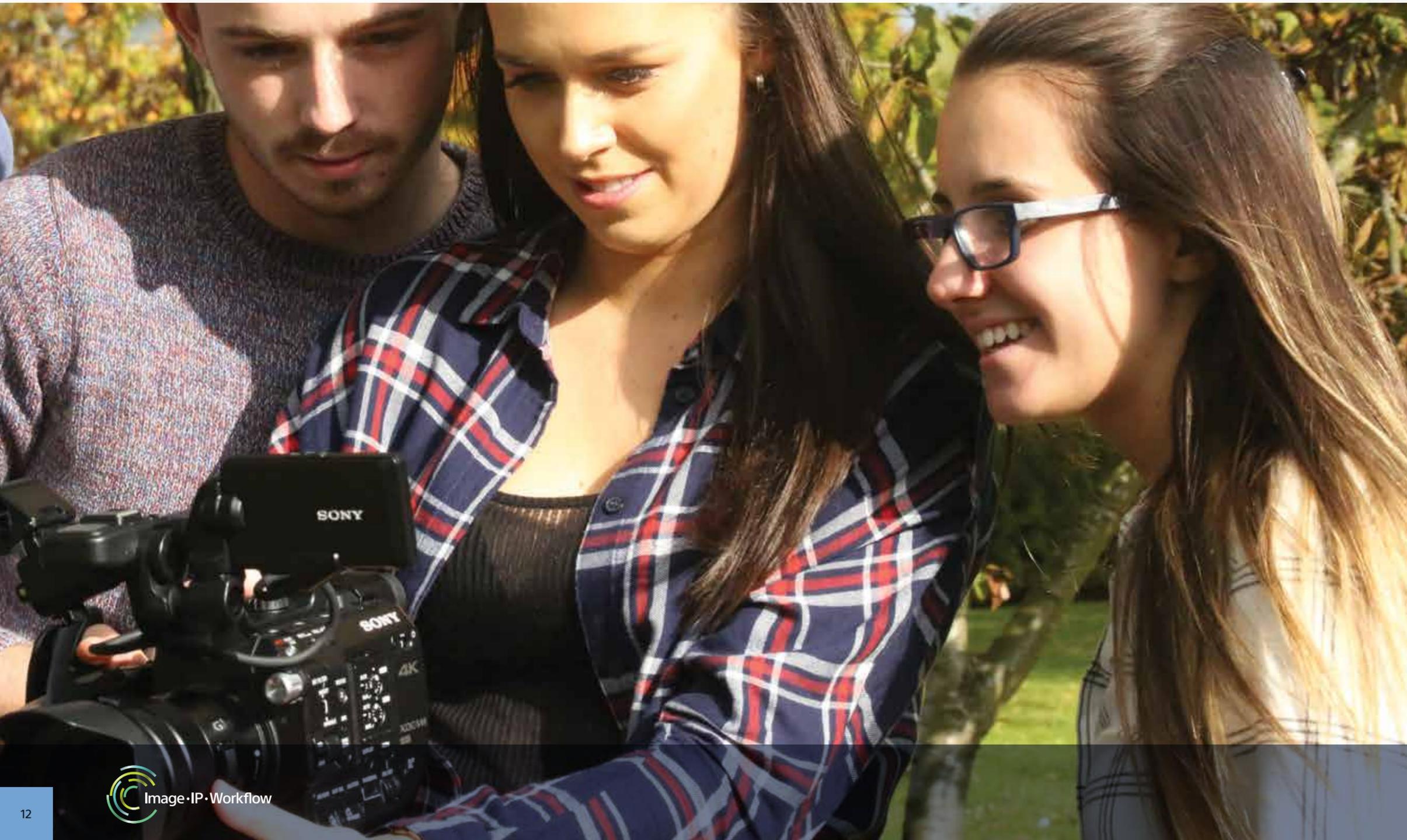
Education Inspiring a new generation

As leading suppliers to the live production market, we're helping a new generation of professionals prepare for the opportunities of this vibrant, fast-moving industry.

Our entry-level products and solutions give students an invaluable grounding in the features and operating practices they'll encounter throughout their successful careers in broadcast, media and content creation.

Every Sony Professional product offers exceptional performance and reliability, while delivering exceptional value for money to universities, schools and colleges.

Our Knowledge Portal provides a wealth of value-added training resources for students and their tutors, from free e-Learning modules to webinars, masterclasses and face-to-face training delivered by industry experts.





SRG-300SE & SRG-360SHE

Affordable HD/SD
Robotic cameras



AWS-750

Anycast Touch
portable live
content producer



MCX-500

Multi-Camera
Live Producer



HXR-NX5R

Full-HD Compact
Camcorder
3CMOS with latest
technology



PWS-100RX1

Network Station for XDCAM -
Wireless Streaming Receiver



HXC-FB75

Affordable three 2/3-
inch Exmor CMOS
sensors HD/SD
studio camera



LMD-B170

17-inch affordable Full
HD LCD monitor with
high picture quality
and rich features set



DWZ-M70 & DWZ-B70HL

Digital wireless audio packages
using 2.4GHz ISM band with
high quality digital sound

Live Streaming Your world awaits

Your audience is the whole world. The web has transformed the speed and flexibility of visual communications, letting individuals and organisations communicate around the clock with a global audience. For broadcasters and news providers, it's a powerful channel to break your story ahead of the competition. And for a whole new generation of independent content creators, the web instantly opens up a global viewing audience of millions, side-stepping the cost and complexity of traditional TV production workflows.

Let Sony help you engage online audiences with crisp, professional looking images that always stand out from the crowd. Whether you're a major news channel, a fast-growing online entertainment destination or an ambitious vlogger with their sights on stardom, our live streaming solutions put professional quality pictures and sound in easy reach.

Grab pro-quality footage for your webcast or live event in 4K or Full HD with our compact, easy-to-use cameras. Mix video and audio sources, add titles and fine-tune your story with Anycast Touch, our go-anywhere live content production station that puts everything right at your fingertips.



SRG-300SE & SRG-360SHE

Affordable HD/SD
Robotic cameras



MCX-500

Multi-Camera Live
Producer



AWS-750

Anycast Touch portable
live content producer



HXC-FB75

Affordable three 2/3-inch
Exmor CMOS sensors
HD/SD studio camera



HXR-NX5R

Full-HD Compact
Camcorder
3CMOS with latest
technology



LMD-B170

17-inch affordable Full
HD LCD monitor with
high picture quality
and rich features set



DWZ-M70 & DWZ-B70HL

Digital wireless audio packages
using 2.4GHz ISM band with
high quality digital sound

Corporate Delivering your clear message

Staff meetings. Global shareholder presentations. Inspirational speakers. New product launches and events. Nothing beats the immediacy of live video for communicating directly with customers and staff, members of the public and other stakeholders, wherever they are.

From blue-chip brands to councils and houses of worship, thousands of organisations around the world trust Sony to help get their point across, reliably and cost-effectively.

You don't need expert skills to capture great-looking content for instant sharing on any platform, whether it's broadcast, local IT networks or the web. From professional-quality remote cameras to our all-in-one Anycast live content producer, Sony makes it easier than ever to deliver your message with sparkling pictures in 4K or Full HD and crystal clear sound.





SRG-360SHE
Affordable HD/SD
Robotic cameras



BRC-H800
HD Pan Tilt Zoom
camera



MVS-3000A
Affordable compact HD/SD
video switcher



PWS-4500
4K/HD multi-port AV storage

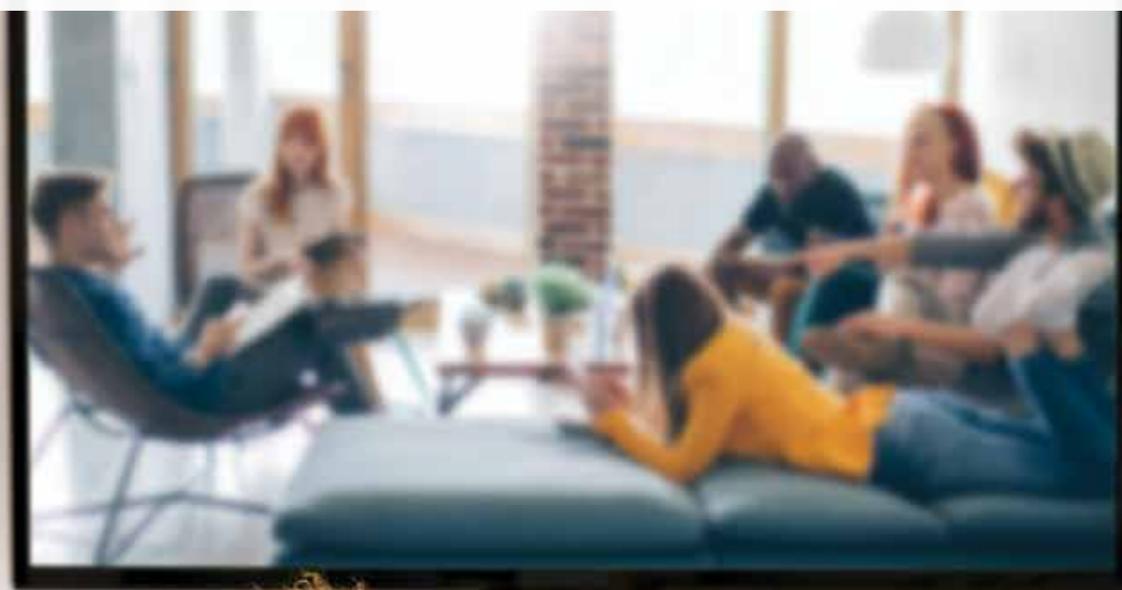


LMD Series
High-grade LCD monitors



DWX Series
For superior digital sound quality and
multi-channel operation

Reality TV People watching



The unstoppable success of Reality TV is one of the decade's biggest broadcasting trends. But live production presents some unique challenges, when participants and crew are often in unfamiliar surroundings, far removed from the controlled comfort of a television studio.

Automated production plays a vital role in making reality TV more 'real'. Our reliable, virtually silent robotic cameras capture crisp, broadcast quality images around the clock - even in low light conditions where other cameras struggle. And our discreet, unobtrusive digital wireless microphone systems are ideal for capturing crystal-clear audio from every participant as the on-screen drama unfolds.





HSC Series

Three 2/3-inch Power HAD FX CCD sensors portable HD/SD camera for digital triax operation and large lens options



BRC-H900

Three 1/2-inch type Exmor CMOS sensor all-in-one Full HD robotic camera



PWS-4500

4K/HD multi-port AV storage



ELC

Live Production Control Automation



PVM series

TRIMASTER EL™ OLED monitors with wide viewing angle



XVS Series

4K/IP professional production switcher system



DWX Series

For superior digital sound quality and multi-channel operation

News Studios

Be the first on air

Today's fast-moving news agenda demands that there's only one chance to break your story – or get left behind by your competitors. Your audience won't wait patiently until 6pm to see the day's big stories on TV: they've already seen the footage on their smartphones. News happens any place, any time – and the real competition for today's broadcasters comes not just from other channels, but from anyone with a social media account.

Sony offers a complete range of solutions for live news production that are in tune with today's dynamic content landscape – helping content creators get to air with better-looking pictures – quicker than ever and at lower cost.

You'll see our studio camera systems, switchers, servers and monitors in broadcast studios around the world. And now our Enhanced Live Production Control System (ELC) streamlines existing control room workflows. Automating routine functions and reducing errors in a pressured on-air situation, ELC allows key staff to be repurposed from mundane technical tasks to creating higher-quality editorial content.

Our news teams were reluctant to automate. But over the last two years of successful operation we've shown comprehensively that ELC works brilliantly, even in a breaking news situation. The interface is so intuitive – it's really simple to automate your show.

Hank van de Loo, Technical Manager,
RTL Netherlands



HDC Series

Multi-format 4K, HD and SD system cameras



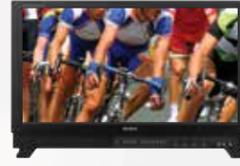
F55 Live

4K Live Camera System based on the PMW-F55 delivers true-to-life entertainment



PWS-4500

4K/HD multi-port AV storage



BVM Series

TRIMASTER EL™ OLED reference monitors



XVS Series

4K/IP professional production switcher system



DWX Series

For superior digital sound quality and multi-channel operation

Live Entertainment

Heightened artistic expression

From live drama to opera, ballet and more – Sony's live production expertise give directors unparalleled power over realising their personal creative vision.

In live configuration, our large format sensor cameras capture stunningly natural 4K Ultra HD images with incredible detail, rich colour and contrast. Teamed with wide aperture lenses they're also the natural choice for creating cinematic depth-of-field effects. And now by shooting in 4K HDR, content creators have control over a broader palette of unique artistic possibilities – bringing TV audiences closer to even more rewarding viewing experiences.



Plus Belle la Vie is a Telfrance Série and Rendez-Vous Production series with the associated participation of France Télévisions. Attracting over five million viewers daily, the flagship soap opera has standardised on **Sony's F55 large format sensor CineAlta cameras** in live configuration to shoot both studio-based and outdoor scenes.



HDC Series

Multi-format 4K, HD and SD system cameras



PWS-4500

4K/HD multi-port AV storage



IP Live Technology

Increased efficiency, reliability and scalability with reduced system costs



BVM Series

TRIMASTER EL™ OLED reference monitors



XVS Series

4K/IP professional production switcher system



DWX Series

For superior digital sound quality and multi-channel operation

Outside Broadcast

We're where the action is

From electrifying live concerts to sporting and cultural events that attract millions of viewers – you'll find our Outside Broadcast vehicles and production facilities right at the heart of the action.

Every year Sony helps hundreds of broadcasters and facilities specialists capture and deliver spectacular images in 4K and Full HD.

We're the go-to partner for solutions of any scope or scale, from large-scale custom designed OB vehicles to compact fly-away production systems. We often take the lead at major sports fixtures and other live events, coordinating other technical partners and contractors to deliver an end-to-end OB production chain from acquisition to uplink and live transmission.

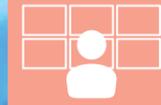
As an acknowledged technology leader, we'll help you capitalise on the exciting possibilities of new workflow innovations like 4K HDR. And now we're taking live production into a new era with the world's first IP-enabled Outside Broadcast vehicles.



Our new OB truck is a key component of TV Globo's production plans for the upcoming big sporting events happening in Brazil from 2016 onwards. Sony has always been a reliable strategic partner – this gives us confidence that it will be delivered successfully. What's more, their vision around 4K/IP live technology is very well aligned with our own.

Raymundo Barros, CTO of TV Globo





SRG-300SE
Affordable HD/SD
Robotic cameras



BRC-H800
HD Pan Tilt
Zoom camera



HDC-P43
4K/HD POV Camera



LMD Series
High-grade LCD monitors



IP Live Technology
Increased efficiency,
reliability and scalability with
reduced system costs



PWS-4500
4K/HD multi-port AV
storage



XVS Series
4K/IP professional production
switcher system

Remote Production Anywhere in the world

There's a shift towards more flexible, decentralised programme production. Leveraging the power, scalability and flexibility of networking standards from the IT industry, broadcasters can locate resources wherever they're needed, linking them as required to meet any production need while reducing operational costs.

At Sony we've helped a growing number of broadcasters successfully design and implement remote production solutions. Our family of IP Live products and solutions allows news stations and live events specialists to transmit real-time signals from remote cameras to studios located hundreds of kilometres away – bringing unparalleled flexibility and cost efficiency to live production.

CNN affiliated regional 24-hour news channel N1 has cut costs by networking production resources over IP at three sites in Belgrade, Zagreb and Sarajevo – separated by several hundred kilometres – using our NXL-IP55 IP Live production unit.

Capturing live excitement



SONY SOLUTIONS

MAKING EVERY OCCASION SPECIAL



Our smart, dependable solutions for Live Production make every occasion special. We'll help you capture and share stunning images in 4K or Full HD that convey all the excitement and emotion the moment to viewing audiences everywhere.

From cameras and switchers to servers, recorders and monitors – we've got the tools and the know-how to make any live production a success. And now with our all-IP workflow, programme makers can enjoy even greater creative flexibility while driving down operating costs.

During the recordings of our latest musical show, we had a need to place a camera where it was not possible to place an operator. We opted to make use of a robotic camera from Sony BRC series and the result exceeded all expectations. The compatibility between Anycast and the BRC cameras is without doubt the best option to anyone requiring a solution for an easy installation and usage.

David Caetano,
Foco Musical, Portugal.



PTZ Cameras

Compact, cost-effective cameras for a wide range of remote applications

Our compact SRG and BRC PTZ robotic cameras deliver silent, reliable operation and seamless integration in any environment. They're ideal for a wide range of applications including corporate video, auditorium, houses of worship, education, sports, events, reality TV and remote studios. Explore our extensive choice of high quality remotely-controlled camera options to fit all budgets and operational needs.



BRC-X1000

1-inch Exmor R CMOS sensor all-in-one 4K robotic camera

- 4K/HD recordings: 3840x2160 29.97p/25p, 1920x1080 59.94p/59.94i/50p/50i, 720 59.94p/50p
- Zeiss Vario-Sonnar lens with 12x optical zoom, (18x 4K and 24x HD with Clear Image Zoom)
- Enhanced PTZ with wide pan/tilt range, sync, slow speed range select and preset motion tracing
- High Sensitivity: 3 lx minimum illumination (4K)
- Dual link 3G-SDI (x2) and HDMI video output

TECHNOLOGY	MARKETS
4K	
IP	



4K HD

BRC-X1000 OPTIONAL ACCESSORIES



RM-BR300
Remote control unit for BRC series cameras

RM-IP10
IP remote control panel for BRC cameras

BRC-H800

1-inch Exmor R CMOS sensor all-in-one Full HD robotic camera

- HD recordings: 1920x1080 59.94p/59.94i/50p/50i, 720 59.94p/50p
- Zeiss Vario-Sonnar lens with 12x optical zoom, (18x 4K and 24x HD with Clear Image Zoom)
- Enhanced PTZ with wide pan/tilt range, sync, slow speed range select and preset motion tracing
- Simultaneously output video through 3G-SDI, HDMI and as H.264 stream via IP
- Dual link 3G-SDI (x2) and HDMI video output

TECHNOLOGY	MARKETS
IP	



HD

BRC-H800 OPTIONAL ACCESSORIES



RM-BR300
Remote control unit for BRC series cameras

RM-IP10
IP remote control panel for BRC cameras

BRC-H900

Three 1/2-inch type Exmor CMOS sensor all-in-one Full HD robotic camera

- HD/SD recordings: 1080/59.94i/50i, 720/59.94p/50p, NTSC/PAL
- Minimum illumination 4 lx (50IRE, F1.9, +24 dB), plus 14x optical zoom lens and advanced colour adjustment
- IP control option, plus video outputs: HD/SD-SDI, Component RGB and Composite Y/C

TECHNOLOGY	MARKETS
IP	



HD

BRC-H900 OPTIONAL ACCESSORIES



BRBK-IP10
IP remote control option board for BRC-H900 and BRC-Z330 cameras

RM-BR300
Remote control unit for BRC series cameras

RM-IP10
IP remote control panel for BRC cameras

BRC-H700

Three 1/3-inch IT CCD sensors all-in-one HD robotic camera

- HD recordings: 1080/59.94i/50i
- Minimum illumination 6 lx (50IRE, F1.6, +24 dB), plus 12x optical zoom lens and 4x digital zoom
- Video outputs: HD/SD-SDI (option) and Component RGB

MARKETS



HD

BRC-H700 OPTIONAL ACCESSORIES



BRBK-H700
HD Optical Multiplex Card

HFBK-HD1
HD-SDI Output Board

RM-BR300
Remote control unit for BRC series cameras



BRC-Z700

Three 1/4-inch ClearVid CMOS CCD sensors HD/SD robotic camera

- HD/SD recordings: 1080/59.94i/50i, NTSC/PAL
- Minimum illumination 6 lx (50IRE, F1.6, +24 dB), plus 20x optical zoom lens and 4x digital zoom
- Video outputs: HD/SD-SDI, Component RGB and Composite Y/C
- IP control option, plus video outputs: HD/SD-SDI, Component RGB and Composite Y/C



HD



BRC-Z700

OPTIONAL ACCESSORIES



BRBK-IP10
IP remote control option board for BRC-H900 and BRC-Z330 cameras



RM-BR300
Remote control unit for BRC series cameras



RM-IP10
IP remote control panel for BRC cameras



BRU-H700
HD optical multiplex unit

SRG-360SHE

1/2.8-inch Exmor CMOS sensor Full HD robotic camera with triple streaming outputs

- HD recordings: 1080/59.94p/50p, 1080/59.94i/50i, 720/59.94p/50p
- 30x optical zoom, View-DR Technology and IP Control
- Enhanced PTZ with wide pan/tilt range, sync, slow speed range select and preset motion tracing
- Simultaneously output video through 3G-SDI, HDMI and as H.264 stream via IP



HD



SRG-360SHE

OPTIONAL ACCESSORIES



RM-BR300
Remote control unit for BRC series cameras



RM-IP10
IP remote control panel for BRC cameras

BRC-Z330

1/3-inch CMOS CCD sensor HD/SD robotic camera

- HD/SD recordings: 1080/59.94i/50i, 720/59.94p/50p, NTSC/PAL
- Minimum illumination 6 lx (50IRE, F1.6, +24 dB), plus 18x optical zoom lens and 4x digital zoom
- Video outputs: HD/SD-SDI, Component RGB and Composite Y/C
- IP control option, plus video outputs: HD/SD-SDI, Component RGB and Composite Y/C



HD



BRC-Z330

OPTIONAL ACCESSORIES



BRBK-IP10
IP remote control option board for BRC-H900 and BRC-Z330 cameras



RM-BR300
Remote control unit for BRC series cameras



RM-IP10
IP remote control panel for BRC cameras

SRG-300SE/HE

1/2.8-inch Full HD CMOS Exmor Sensor HD Progressive robotic Camera with IP Streaming function

- HD 1080/50p,25p & 1080/50i & 720/50p,25p
- 30x Zoom, ViewDR Technology and IP Control as standard
- IP Video Streaming included
- 3G-SDI output (SE model) or HDMI output (HE model)



HD



SRG-300SE/HE

OPTIONAL ACCESSORIES



RM-BR300
Remote control unit for BRC series cameras



RM-IP10
IP remote control panel for BRC cameras



The technology used to cover a game of this magnitude [the Superbowl] needs to have the power to fully integrate the level of graphics that NFL fans have grown accustomed to while still producing as clean a feed as possible. The Sony HD equipment offers a significant level of production flexibility and the image quality is extremely high. This all translates into delivering an enhanced viewing experience for the consumer at home.

Ken Aagaard, senior vice president,
operations and production services at CBS Sports



Studio Cameras

Give all your images that extra wow factor

With thousands of studio cameras in daily operation worldwide, Sony leads the way in capturing live events with extraordinary image quality, flexibility and operational reliability.

Acknowledged as a worldwide standard, our flagship HDC series is headed by the HDC-4800 4K/HD Ultra High Frame Rate Camera System. A game-changer for sports and other live production environments, it handles 4K, HD and super slow-motion in a single platform without requiring extra dedicated production staff - helping you generate even bigger returns on today's production budgets.

The versatile HDC-P1 Point-of-View (POV)-style camera captures superb Full HD pictures in a remarkably compact package that's ideal for stadiums and other remote applications.



HDC-4800

4K/HD Ultra High Frame Rate Camera System with Super 35mm CMOS sensor

- 400fps (8x) in 4K / 800fps (16x) in HD*
- Never miss any actions with up to 4 hours in 4K UHFR recording
- Simple, fast and seamless highlight editing with real-time clips sharing with PWS-4500 SharePlay 10Gb network
- Flicker-free function without any delay
- Live HDR / Wide Colour Space support
- IP Ready with NMI standard

*By next version up



HDC-4800

TECHNOLOGY	MARKETS
4K	
IP LIVE	
HDR	



We're incredibly impressed with the slow-mo of the HDC-4300. For shooting golf, it's very simple to get incredible results

Hamish Greig,
Technical Director,
CTV Outside Broadcast



HDC-4300

Three 2/3-inch 4K Progressive CMOS multi-format HD/4K system camera

- IP Live compatible
- 10 Gbps optical fibre transmission
- HD System as standard up to 1080/150p
- High-frame-rate capture for 4K 2x and HD 8x super slow motion
- HDR Capable



HDC-4300

TECHNOLOGY	MARKETS
4K	
IP LIVE	
HDR	

HDC-P43

4K/HD POV Camera

- Direct installation of B4-mount lenses
- Superb 4K capabilities with wide dynamic range and wide colour space
- High-frame-rate capture for 4K 2x and HD 8x super slow motion*
- Seamless integration into Sony HD workflows
- Compact and lightweight with low power consumption
- Two remote control optical filters

*Option licenses required



HDC-P43

TECHNOLOGY	MARKETS
4K	
IP LIVE	
HDR	



HDC-2500 Series

Three 2/3-inch Full HD Progressive CCD 3G multi-format HD system camera with large lens and double-speed options

- 3Gbps Optical fibre or 3G Digital Triax transmission
- Multi-format operation, including SD down-conversion
- 4K/HDR acquisition*

*Option licenses required



HDC-2500 SERIES

HDC-P1/A

Three 2/3-inch Power HAD FX CCD sensors Full HD compact POV system camera with HD-SDI output

- Compact and lightweight design, ideal for 3D rigs
- Multi-format operation, with 1080/25PsF and 1080/50P formats available*
- ND/CC dual optical servo filters

*Option licenses required



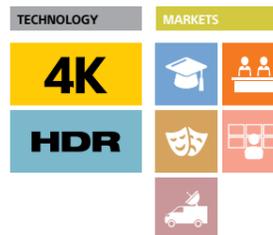
HDC-P1/A

HDC-1700

Three 2/3-inch Full HD Power HAD FX CCD multi-format HD/SD portable system camera with large lens options

- 3Gbps optical fibre transmission
- Multi-format operation, including SD down-conversion
- 4K/HDR acquisition*

*Option licenses required



HDC-1700

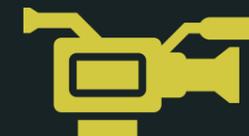
HSC-100RT & HSC-300RT

Three 2/3-inch Power HAD FX CCD sensors portable HD/SD camera for digital triax operation, plus large lens options

- HSC-100RT and HSC-300RT with digital triax
- Multi-format operation, including SD down-conversion



HSC-100RT & HSC-300RT



HXC-FB75H

Three 2/3-inch Exmor CMOS sensors HD/SD fibre studio camera

- Ideal solution for entry level HD/SD live production and Education
- Multi-format operation
- Cost-effective hybrid optical fibre cable connection to CCU extends signal transmission with power supply to 350m
- Long-distance transmission up to 10km with single-mode fibre cable

MARKETS



HXC-FB75H

F55 Large Format Sensor Live Production Camera solutions

Super 35mm CMOS sensor CineAlta cameras for 4K and HD Live Production

- Live capture of 4K/UHD images up to 50fps and in HD slow-motion up to 300fps
- CA-4000 camera adaptor sends 4K output over SMPTE fibre cable and supports system operations (intercom, tally, return)
- Integrates with existing HD infrastructure and provides simultaneous HD output (with BPU-4000 baseband processor unit)

TECHNOLOGY

4K

IP LIVE

MARKETS



F55

HXC-P70

Three 2/3-inch Exmor CMOS sensors Full HD compact fibre system camera

- Light, compact POV camera with low power consumption and optical fibre connections
- Multi-format operation
- Hybrid-type optical fibre cable connection to CCU extends signal transmission with power supply to 500m
- Long-distance transmission up to 10km with single-mode fibre cable
- Use same HXCU-FB70 CCU as HXC-FB75

MARKETS



HXC-P70





Production switchers

Future-proofed power and flexibility plus consistent operability

Our acclaimed switcher line-up reflects decades of intensive development plus a deep understanding of the daily rigours of live operations. Created in response to rapidly growing demand for 4K production and IP-based workflows, the next-generation XVS Series is the world's first family of professional production switchers that supports our IP Live Production System.

The XVS Series makes uncompromising power, flexibility and reliability brilliantly accessible. Many convenient features are directly inherited from the popular MVS Series, allowing smooth transition from HD to 4K and from SDI to IP Live with no need for costly re-training.



Over the years, Sony's switchers have been widely accepted by many users and have acquired an extraordinary reputation for distinguished features and long-term reliability.

Andy Hotten,
Live production specialist





XVS-8000

IP-ready 4K/HD/SD video switcher for live production

- Full 5 M/E operation in 4K, with 40 inputs and 12 assignable outputs and 20 keyers (10 full keys + 10 sub keys)
- Up to 160 inputs/64 outputs (in HD)
- 4 channel 3D/nonlinear effect (DME)
- Built-in format conversion
- Two-channel multi-viewer splits display into 4, 10, 13 or 16-way options
- High-capacity non-volatile frame memory stores approx. 5,000 frames (expandable with SSD)



XVS-8000

XVS-6000

Entry-level IP-ready 4K/HD/SD video switcher for live production

- 4 M/E, up to 48 inputs/32 outputs (in HD), 2 channel 3D/nonlinear effect (DME)



XVS-6000

XVS-7000

IP-ready 4K/HD/SD video switcher for live production

- 6 M/E, up to 112 inputs/64 outputs (in HD), 4 channel 3D/nonlinear effect (DME)



XVS-7000

MVS-7000X

High-end 3G/HD/SD video switcher with 6M/E

- 6 M/E configuration/8 keyers on PP row
- 80 inputs/48 outputs
- Optional 2 or 4 channel DME and 8 channel format conversion



MVS-7000X



MVS-6530

Mid-range HD/SD video switcher with 3M/E

- 3 M/E configuration/8 keyers on PP row
- 48 inputs/32 outputs
- Optional 2 channel DME and 8 channel format conversion

MARKETS



HD

MVS-6530



ICP-X7000

Modular control panel for XVS series & MVS series (MVS-8000X, MVS-7000X)

- Supports highly flexible panel configuration options to suit wide range of operational needs
- Consistency with MVS-8000 switcher panel for smooth, simple cross-training
- OLED source name displays, assignable RGB XPT buttons and XPT pads accommodate different operational styles and ensure control accuracy

ICP-X7000



MVS-3000A

Affordable HD/SD video switcher with 2M/E

- 2 M/E configuration/4 keyers per M/E bank
- 32 inputs/16 outputs
- Optional 2 channel DME and 8 channel format conversion

MARKETS



HD

MVS-3000A



ELC-MVS01

Live production control automation system

- Unified control of newsroom computers and other studio hardware by a single operator
- Seamless integration with Sony XVS and MVS series switchers plus cameras, robotics pedestals, graphics, lighting and audio playback systems
- Real-time rundown synchronisation and playlist updates
- Manual mode allows operator to take control at any time

MARKETS



ELC-MVS01





AWS-750

Anycast Touch portable live content producer

- Portable, easy-to-use all-in-one live production solution
- Intuitive dual touchscreen operation
- Video switcher, encoder, recorder, audio mixer, titler and remote camera controller

MARKETS



AWS-750

MCX-500

Multi-Camera Live Producer

- Smart controls with configurable LCD Touchscreen
- Mix between 8 video sources + 1 Title (total 9 inputs)
- Multi-view monitoring
- Advanced titles and effects
- Stream content live over the internet
- PC, Mac & Tablet integration
- Record AVCHD Full HD 1920x1080 60i/50i or 1440x1080 60i/50i

MARKETS



MCX-500

MCS-8M

2D/3D compact HD/SD audio and video switcher

- Integrated M/E, key and aux mix functions
- 8 inputs/4 outputs
- DME channel and 3D mode

MARKETS



HD

MCS-8M

By selecting the XVS-8000 video switcher as part of its new UHD OB truck, Croatel is able to meet growing customer demand for 4K and HDR production capabilities, future-proofing its investment as broadcasters continuously look to differentiate their live sports programming. Multi-format support and compatibility with SDI and IP connections gives Croatel complete flexibility to incorporate different vendors' equipment to meet the demands of any given project.



Servers & recording

From HD to 4K: efficient, robust recording and storage solutions

With over 60 years' experience of video recording, we're a world leader in delivering reliable, robust and cost-effective recording solutions for critical live and other events.

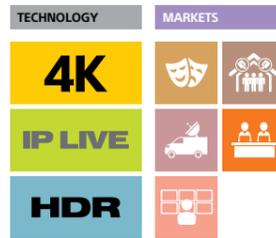
A cornerstone of our next-generation IP-ready 4K/HD live production offering, the PWS-4500 multi-port AV storage unit uses the efficient, flexible XAVC format to record both 4K UHD and HD content. With flexible I/O options, networked file sharing and HFR recording capability, it's the brilliantly versatile choice for today's live production workflows – and tomorrow's.



PWS-4500

IP-ready 4K/HD multi-port AV server/storage unit

- Efficient XAVC Intra Codec for HD, 4K and HDR
- Avid DNxHD® and Apple ProRes® codec options for HD
- HFR support up to HD and 4K 2x slow motion
- Simultaneous 4K and HD recording
- Easy transcoding between XAVC and other formats using Media Gateway
- Ultra reliable 2TB internal storage memory expandable to 8TB for up to 8 hours recording in 4K
- Efficient Live operations between servers via 10Gbps SharePlay network and file based workflow using Open 10Gbps Network



4K HD

PWS-4500



PMW-1000

Compact HD/SD SxS memory recording deck

- Two SxS ExpressCard™ memory card slots and jog/shuttle control
- SD/HD-SDI interfaces plus HDMI interface
- Records XDCAM HD422 and HD420, plus XAVC HD recordings and SD playback



HD

PMW-1000



XDS-PD2000/XDS-PD1000

XDCAM deck/IT servers

- Internal storage: 512 GB Solid State Drive (XDS-PD200) 1 TB Hard Disk Drive (XDS-PD1000 and XDS-1000)
- Two SxS memory slots and Professional Disc drive, supports all SxS card types, including Memory Stick and SDHC cards, using MEAD adaptors, plus all XDCAM Professional Disc models including Single Layer, Dual Layer, Triple Layer and Quad Layer discs
- Supports all XDCAM and XDCAM EX file formats
- XAVC Support (option) for XDS-PD2000 only



XDS-PD2000/1000



PDW-HD1550/PDW-HD1200

Professional Disc recorder/player

- Supports XDCAM HD422 codec formats for recording and playback
- Up/down format convertor, plus cross conversion
- Linear editing option



PDW-HD1550/PDW-HD1200





PMW-PZ1

4K SxS memory player

- XAVC HD, 4K & HDR Support
- XDCAM HD422 Support
- Simple copy and back-up process
- Versatile interfaces: 3G-SDI x4, HDMI, USB 2.0

TECHNOLOGY	MARKETS
4K	LIVE
HDR	VEHICLE

4K HD

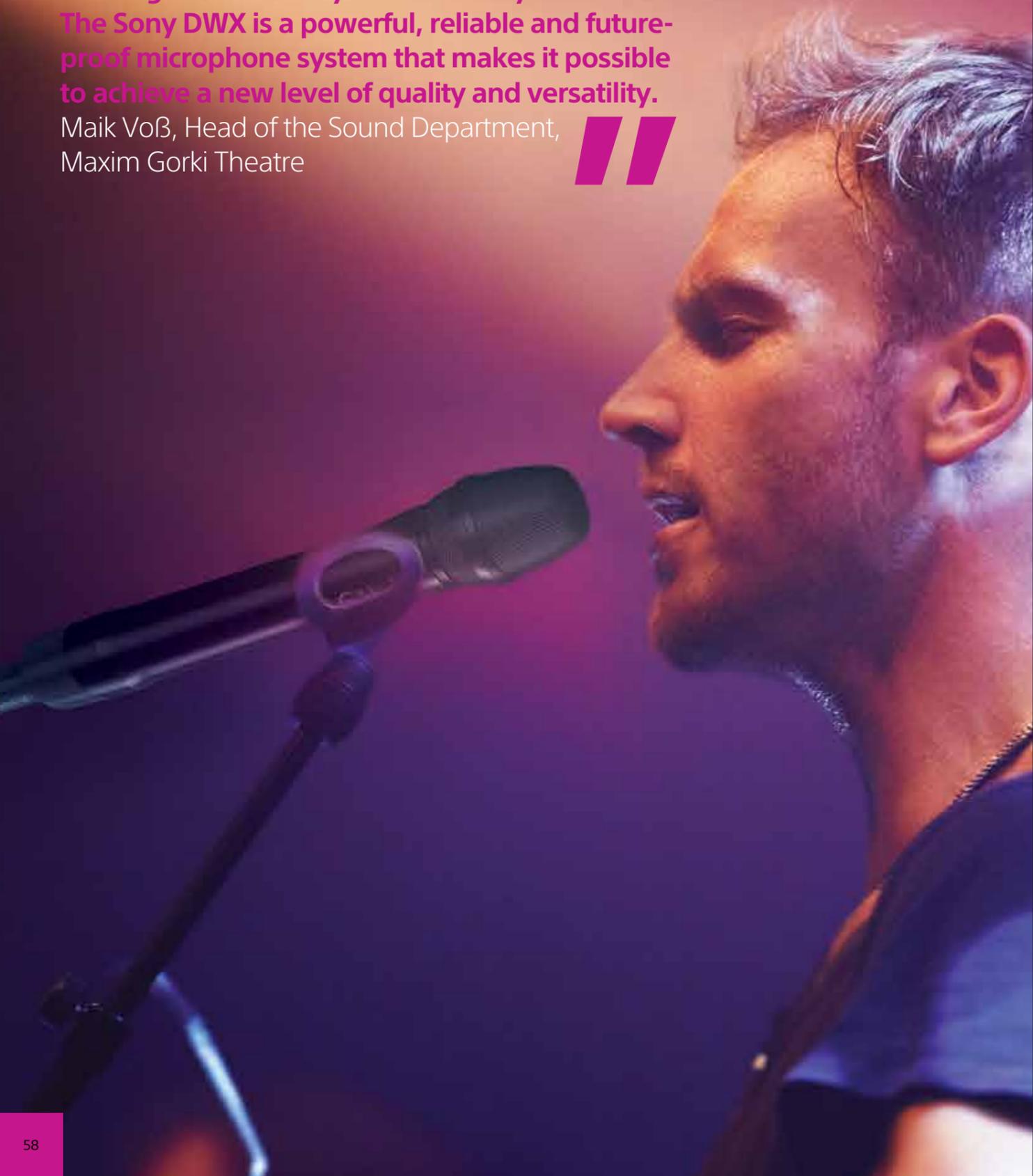
PMW-PZ1





We opted for what our research showed to be the best digital wireless system currently available. The Sony DWX is a powerful, reliable and future-proof microphone system that makes it possible to achieve a new level of quality and versatility.

Maik Voß, Head of the Sound Department,
Maxim Gorki Theatre



Professional audio

Superior digital sound quality and multi-channel operation

Created for use in live events and in broadcast TV studios, the digital DWX range seamlessly brings UHF wireless microphone technology into the digital domain. DWX is the no-compromise, ultimate quality choice, whatever your gig.



DWX

DIGITAL WIRELESS

The DWX range offers world-leading digital microphone expertise, including the superb WiDIFHP codec, which captures the subtlety of analogue, but adds the advantages of an all-digital architecture. The DWX range marks the beginning of a new era in live stage and broadcast audio equipment – not just because it's all-digital, but because this user-focused technology comes in the smallest, lightest and most ergonomic packages available.



DWR-S02DN

2 Channel slot-in digital receiver

- Superb audio quality by AES3 out and 24Bit/48kHz D/A conversion
- Various viewfinder functions with Sony XDCAM camcorders
- Full digital workflow with Sony XDCAM camcorders
- Up to 72MHz bandwidth
- Active/Free channel scan
- Three codec modes designed for wide variety of applications



DWR-S02DN

DWR-R02DN

2 channel wideband rackmount digital wireless receiver

- High quality wide-band 24-bit digital audio receiver
- Operates with a wide bandwidth from 470 MHz to 710 MHz (depending on region).
- Three codec modes designed for a wide variety of applications
 - (1) More reliable RF transmission
 - (2) Low audio latency for high quality sound
 - (3) Stable and secure transmission and reception
- Simultaneous multi-channel operation
- Remote control of transmitter functions from the receiver using Wireless Studio software



DWR-R02DN

OPTIONAL ACCESSORIES



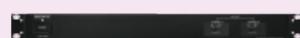
AN-01
Uni-directional UHF Antenna



AN-820A
Active antenna Sony wireless microphone rack receivers



RMU-01
Remote Control Unit for Digital Wireless Microphone System



WD-850A
UHF Antenna Divider

DWM-02N

Handheld digital wireless microphone

- Superb audio quality by using 24bit/96kHz high class AD - convertor
- Simultaneous multi-channel operation
- Interchangeable thread pitch mechanism for capsules
- RF remote for all functions by Wireless Studio remote software
- Selectable RF output power (1/10/50 mW)
- Digital low-cut filter
- Up to 72MHz bandwidth
- Three codec modes designed for wide variety of applications



DWM-02N

OPTIONAL ACCESSORIES



CU-C31
Condenser cardioid Mic Capsule for use with DWM-02 and DWZ series handheld transmitters



CU-F31
Dynamic Super-cardioid Mic Capsule for use with DWM-02 and DWZ series handheld transmitters



CU-F32
Dynamic Wide-Cardioid Mic Capsule for use with DWM-02 and DWZ series handheld transmitters



DWT-B01N

Belt-pack digital wireless transmitter

- Superb audio quality by using 24bit/96KHz high class AD - convertor
- Simultaneous multi-channel operation
- Lightweight and rugged design
- Switchable mic or line input level and adjustable attenuator
- RF remote for all functions by Wireless Studio remote software
- Up to 72MHz bandwidth
- Selectable RF output power (1/10/50 mW)
- Digital low-cut filter
- Three codec modes designed for wide variety of applications



DWT-B01N/E

OPTIONAL ACCESSORIES



EC-1.5CF
Microphone Cable



BATC-2AA
Battery Case



ECM-77BC
Discrete omni-directional
lapel Electret condenser
microphone

DWT-P01N

Wireless DWX XLR plug-on transmitter

- Superb audio quality by using 24bit/96KHz high class AD - convertor
- Simultaneous multi-channel operation
- Switchable mic or line input level and adjustable attenuator +48 V Power supply
- RF remote for all functions by Wireless Studio remote software
- Up to 72MHz bandwidth
- Three codec modes designed for wide variety of applications



DWT-P01N

OPTIONAL ACCESSORIES



BATC-2AA
Battery Case





DWZ

A version for you

The DWZ Series offers high quality sound combined with our renowned digital wireless reliability in a simple to set-up-and-use design. The interchangeable microphone head mechanism on the ZTC-M02RC handheld microphone is designed for using third-party capsules: the Intelligent Feedback reducer eliminates unwanted acoustic feedback.



DWZ-M70

Digital wireless set for presenters and vocalists

- Intelligent Feedback reducer function
- 3-way parallel audio output 1/4" TS phone (x2), Balanced XLR (x1)
- 5-Band graphic digital equalizer
- Colour LCD for simple operation & status monitoring for TX & RX
- Clear channel scan for easy set up
- Rack-mountable 1U half-rack size (with optional RMM-HRD1 rack mount kit)
- Detachable whip antenna



DWZ-M70



DWZ-B70HL

Digital wireless lavalier microphone set for presenters and vocalists

- Intelligent Feedback reducer function
- 3-way parallel audio output 1/4" TS phone (x2), Balanced XLR (x1)
- 5-Band graphic digital equalizer
- Colour LCD for simple operation & status monitoring for TX & RX
- Clear channel scan for easy set up
- Rack-mountable 1U half-rack size (with optional RMM-HRD1 rack mount kit)
- Detachable whip antenna



DWZ-B70HL





Selecting Sony to provide the TRIMASTER EL screens was an easy choice when considering their sustainability potential, contrast ratio and black level.

Dave Nijmeijers,
CTO, DutchView



TRIMASTER EL

Superb colour reproduction and wider viewing angles

Our professional TRIMASTER EL™ OLED monitor line has expanded from master monitors to picture monitors since its first launch in 2011.

TRIMASTER EL technology and our uniquely developed OLED panel superbly reproduces accurate blacks and colours, and features exceptional dynamic range and outstanding motion response to enable the most accurate picture evaluation in the industry.

Latest models incorporate wider viewing angles, dramatically reducing colour shift and enabling more efficient group monitoring.



TRIMASTER EL 4K



SONY

Professional monitors

The true reference when accuracy is everything

Drawing on decades of broadcast industry leadership, our reference-quality monitors bring clarity to the critical last mile of today's production workflows. Whether you're producing in 4K or Full HD, TRIMASTER EL™ OLED technology opens up new worlds of colour and contrast that previous-generation displays just can't match.

The recently introduced PVM-X550 is an ideal companion to the BVM-X300 as a client monitor for high-end applications. Its 55-inch large size OLED panel is ideal for immersive viewing of 4K HDR content. Using the same TRIMASTER EL™ 4K technology, it provides the same levels of accuracy as the BVM-X300 with a 12-bit output processing.

Delivering unparalleled black performance and colour reproduction with support for today's HDR content, the flagship BVM-X300 is an uncompromising tool for the most demanding QC and grading applications.



PVM-X550 Professional OLED Picture Monitor

55-inch 4K TRIMASTER EL™ OLED monitor with wide viewing angle

- UHD picture resolution (3840 x 2160 pixels), 4K compatible
- High Dynamic Range (HDR) support via multiple EOTF (S-Log3, ITU-R BT.2100 HLG, SMPTE ST2084)
- Quad-View Display mode with Independent EOTF & Colour Space management settings
- Supports DCI P3, ITU-R BT.2020, S-Gamut/S-Gamut3 and S.Gamut3.Cine wide colour spaces

TECHNOLOGY

4K

HDR

OLED

MARKETS



PVM-X550



4K PROFESSIONAL MONITORS

BVM-X300 Professional OLED Master Monitor

30-inch 4K TRIMASTER EL™ OLED monitor with extremely wide viewing angle

- Full 4K picture resolution (4096 x 2160 pixels)
- High Dynamic Range (HDR) support via multiple EOTF (S-Log3, ITU-R BT.2100 HLG, SMPTE ST2084)
- Supports DCI P3, ITU-R BT.2020, S-Gamut/S-Gamut3 and S.Gamut3.Cine wide colour spaces
- Multi-format 4K/UHD/2K/FHD capability

TECHNOLOGY

4K

HDR

OLED

MARKETS



BVM-X300



PVM-X300 Professional LCD Picture Monitor

30-inch 4K TRIMASTER™ high grade LCD monitor with wide viewing angle

- Full 4K picture resolution (4096 x 2160 pixels)
- 10-bit signal processing engine for stunning colour management
- Ideal for Onset, live production and editing applications
- Optional SxS player for dailies review of 4K contents

TECHNOLOGY

4K

MARKETS



PVM-X300





HIGH-GRADE PROFESSIONAL MASTER MONITORS

BVM-E251 & BVM-E171
Professional OLED Master Monitors

24.5-inch and 16.5-inch Full HD TRIMASTER EL™ OLED reference monitors with wide viewing angle

- Accurate black reproduction, high contrast ratio and wide viewing angle
- 12-bit output signal processing engine for precise colour management and smooth accurate gamma performance
- Supports DCI P3, ITU-R BT.2020, S-Gamut/S-Gamut3 and S-Gamut3.Cine wide colour spaces
- Flicker free function and video latency below one field
- Versatile inputs: 2x 3G/HD/SD-SDI I/O, 1x HDMI and 1x composite I/O
- DC power operation for on-set cinematography



BVM-E251 & BVM-E171

TECHNOLOGY

OLED

MARKETS

**LMD-A240, LMD-A220, LMD-A170 & LMD-941W** Professional LCD Picture Monitor

24-inch, 22-inch, 17-inch and 9-inch Full HD high grade LCD monitors with wide viewing angle

- Superior quality with built-in 10-bit PVM-A signal processing for stunning colour management
- New cabinet design and common User Interface with PVM-A series and LMD-B series
- Versatile inputs: 2x 3G/HD/SD-SD I/O, 1x HDMI and 1x composite I/O
- Professional video monitor with enhanced features set
- Low power consumption in a slim, light chassis, easy to hand-carry
- DC power operation for on-set cinematography



LMD-A240, A220, A170 & 941W

MARKETS



HIGH-GRADE PROFESSIONAL PICTURE MONITORS

PVM-A250 & PVM-A170
Professional OLED Picture Monitors

24.5inch and 16.5-inch TRIMASTER EL™ OLED slim, lightweight high grade picture monitors with wide viewing angle

- Stunning OLED performance with Super Top Emission technology 10-bit RGB panels
- Superior quality with built-in 10-bit signal processing for stunning colour management
- New cabinet design and common User Interface with LMD-A series and LMD-B series
- Versatile inputs: 2x 3G/HD/SD-SD I/O, 1x HDMI and 1x Composite I/O
- Professional video monitor with enhanced features set
- Low power consumption in a light & slim chassis, easy to hand-carry
- DC power operation for on-set cinematography (PVM-A170)



PVM-A250 & A170

MARKETS



Sony's OLED monitors are able to provide the most realistic colours and image quality ever seen in an outside broadcast vehicle.

Tuncay Ozkan,
General Manager of Ozkan
Productions, Turkey



ENTRY-LEVEL PROFESSIONAL PICTURE MONITORS

LMD-B170 Professional LCD Picture Monitor

17.3-inch affordable Full HD LCD monitor with high picture quality and rich features set

- Superior quality with built-in 10-bit PVM-A signal processing for stunning colour management
- New cabinet design and common User Interface with PVM-A series and LMD-B series
- Versatile inputs: 2x 3G/HD/SD-SD I/O, 1x HDMI and 1x composite I/O
- Professional video monitor with enhanced features set
- Low power consumption in a slim, light chassis, easy to hand-carry
- DC power for outdoor operation



LMD-B170

**LMD-1510W & LMD-2110W Professional LCD Picture Monitors**

15.6-inch and 21.5-inch affordable Full HD LCD monitors

- Cost-effective production monitors with professional video inputs
- 1x Composite I/O and 1x HDMI inputs. Optional HD/SD-SDI input with BKM-341HS
- Basic production features for entry-level applications



LMD-1510W & LMD-2110W



The LMD-B170 is a robust, reliable video production monitor for professional video applications at an affordable price with no compromise on picture quality, accuracy and consistency in comparison with IT monitors.

Daniel Dubreuil,
Marketing Manager





Brazil's biggest commercial broadcaster, TV Globo, has deployed the world's first purpose-built 4K/IP Outside Broadcasting truck, centred on Sony technology including the HDC-4800 4K/HD Ultra High Frame Rate Camera System.

IP Live
Production System

IP Live production

Ready Today, Open For Tomorrow

From simpler infrastructure to greater flexibility and lower costs: IP Live promises plenty of advantages over SDI in today's live production environment. Sony now offers an end-to-end IP live production ecosystem, with components linked by widely-available IT industry routers.

Based on our high-performance Networked Media Interface, latest products like the NXL-FR318 combined with the NXL-IP40F converter boards allow the introduction of IP into existing infrastructures – smoothly, progressively and with minimal disruption.

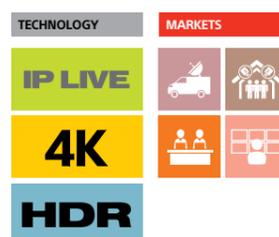


High-end IP Live production is supported by products like our **HDC-4800** and **HDC-4300** system cameras, combined with the **BPU-4500**, **BPU-4800** or **HDCU-4300** to leverage the power of Sony's Network Media Interface. A total IP-based infrastructure is completed with our **PWS-4500** production servers and **XVS** vision mixer range.

IP Live Technology – The Network Media Interface

Live production interoperability framework interface

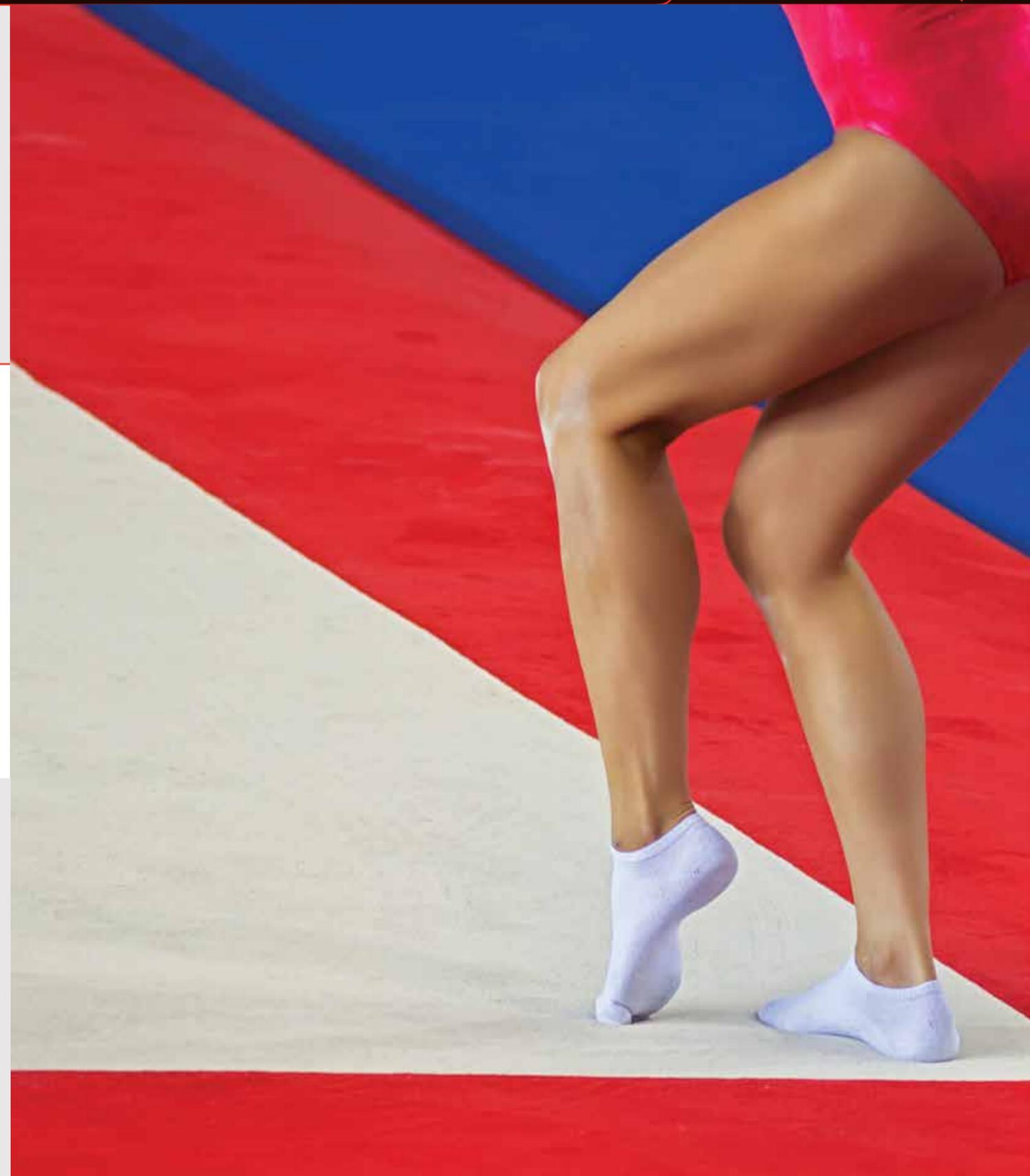
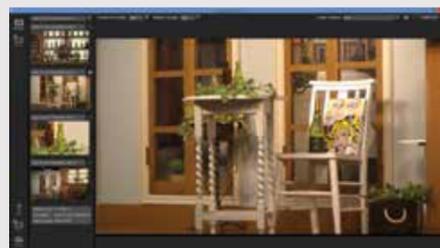
- Multiple media transport support (SMPTE 2022-6, essence independent mapping, ASPEN, TR-03*)
- Future-proof software design supporting standards evolution
- Real-time video, audio, control and tally transmission over IP
- Network synchronisation PTP support and clean video switching
- Device discovery (NDCP, NMOS) and management
- Reliable IP streaming methods and QoS management
- Secure IP video streams with real-time encryption
- Sony open technology and Alliance Partners Programme



Live System Manager

A true software defined network solution to setup, manage and operate IP Live Production systems.

- Streamlines live production architecture design
- Enables control and configuration of multiple NMI end devices
- Easily change video routes with software cross-point switching
- Dynamic production management with workgroups
- Monitor live production network layout

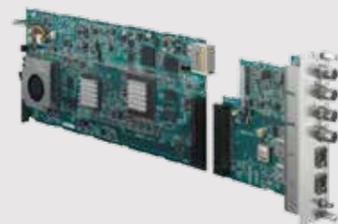




NXLK-IP40F

SDI-IP gateway boards

- Enables hybrid SDI/IP production solution
- 4K/HD/SD support
- Converts SDI signals to IP streams (NMI, SMPTE 2022-6)
- Converts IP streams to SDI
- 4x 3G-SDI ports and 2x SFP+



MARKETS



NXL-IP4F

SDI-IP standalone converter unit

- Ideal for monitoring IP streams with SDI monitors
- IP (NMI) to SDI converter
- Supports HD and 4K resolutions



MARKETS



NXL-FR318

SDI-IP signal processing unit

- 3U rack-mounting frame chassis
- Supports up to 9 NXLK-IP40F
- 2x power supply units



MARKETS



NXLK-IP45F

AV multiplexer/demultiplexer board

- Multiplex audio over IP (Dante/AES67) and video over IP
- De-multiplex audio and video over IP to SDI or IP
- Supports HD and 4K resolutions
- Supports up to 16 audio channels
- 2x RJ45 ports and 2xSFP+ GbE ports
- 4x 3G-SDI in/out selectable and 4x 3G-SDI outputs

MARKETS



PWA-MV1N

Live production grade multi-viewer software solution

- Customisable views with the layout designer
- Up to 32x HD LLVC input streams and 1x 4K or 4x HD display outputs
- 10G SFP+ interfaces
- Various monitoring functions (video/audio/metadata)

MARKETS



NXL-IP55

Compact IP live production unit

- Multi-channel video and audio transmission via a 1 Gbps link
- Handles up to four HD-SDI video sources (three downstream and one upstream, or two downstream and two upstream)
- Up to ten channels of audio + intercom (up to eight upstream signals), plus three red and three green selectable tally light signals, and eight GPIO channels



MARKETS





Looking after you and your professional product



PrimeSupport



PrimeSupport goes beyond your standard product warranty, giving you privileged access to expert technical advice when you need it.

Our multi-lingual helpdesk can resolve a wide range of operational issues by phone or email. And depending on your chosen level of PrimeSupport, you'll enjoy more great benefits for extra peace of mind.

There's a family of four PrimeSupport care options, tailored to your specific needs in any live production environment.

Get telephone and email helpdesk (during business hours) for assistance on setting up and using your Sony Professional product. If there's technical problem with your product that requires fixing, we'll take care of it with our 14-day repair service*.

PrimeSupport
Pro

Benefit from extended helpdesk access to our product specialists beyond normal business hours. We'll keep you up and running with our fast-track repair service that includes all shipping costs. We may also offer a loan replacement unit and/or other additional services while your product is being repaired.

PrimeSupport
Elite

Get as much support as you need, when you need it. A la carte options include initial product set-up, on-site engineering support, product health-checks and training.

PrimeSupport
On-Demand

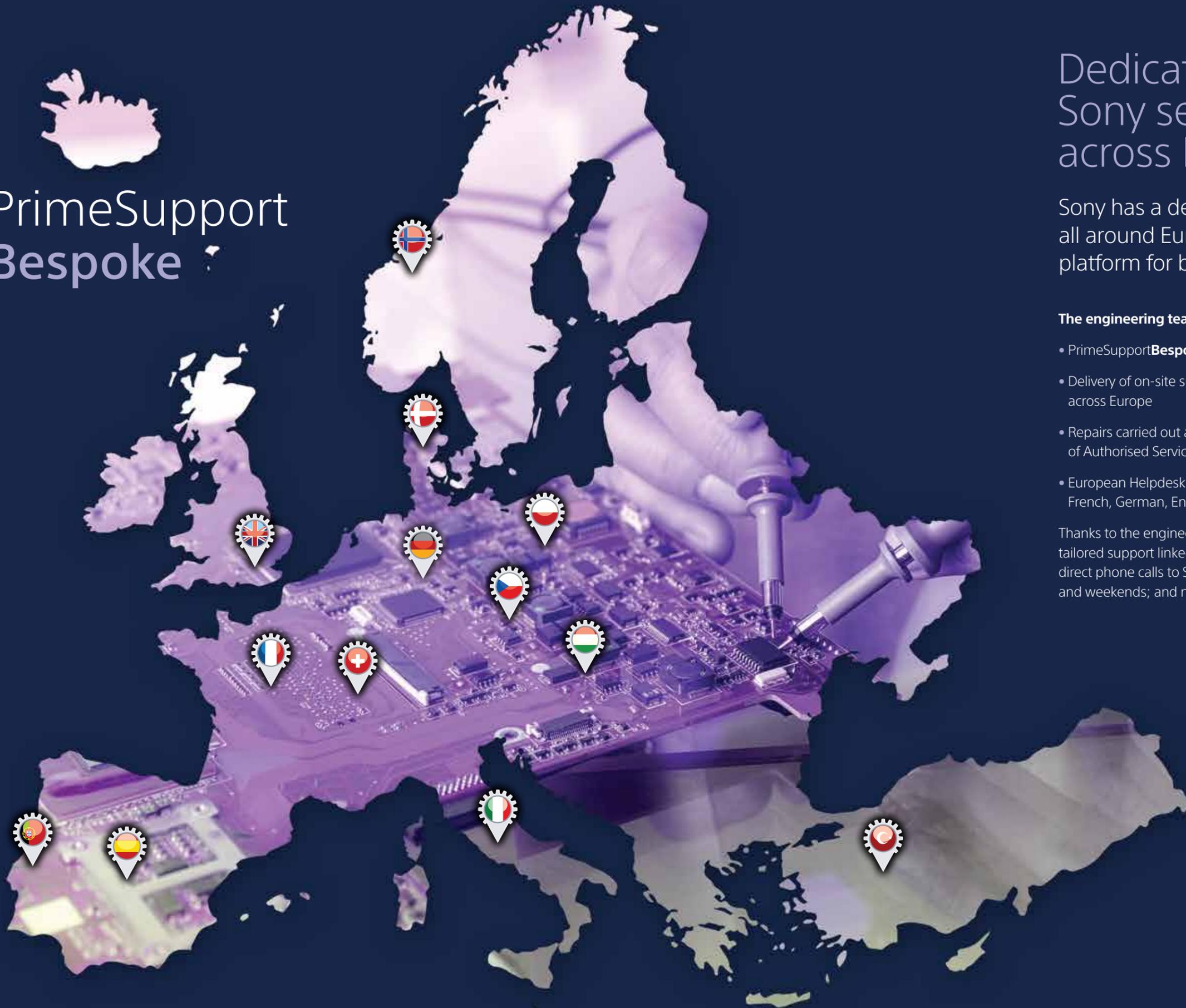
We'll design a support solution that's perfectly tailored to your business and operational needs. You'll also enjoy enhanced helpdesk support with dedicated 60-minute engineer call-back, plus our guaranteed fast-track repair service with no-cost shipping.

PrimeSupport
Bespoke

*14-day repair service is indicative only: actual turnaround time not guaranteed.



PrimeSupport Bespoke



Dedicated team of Sony service engineers across Europe

Sony has a dedicated team of service engineers all around Europe, offering the largest support platform for broadcast products available.

The engineering team offers:

- PrimeSupport **Bespoke** packages created by a team of 6 contract designers
- Delivery of on-site support through approximately 60 field engineers across Europe
- Repairs carried out at Sony Pencoed (UK), Sony Alsace (FR) and network of Authorised Service Centres
- European Helpdesk with eight Technicians: 00 800 7669 0000 covering French, German, English, Spanish, Italian

Thanks to the engineering team, customers can access a whole range of tailored support linked to their level of PrimeSupport packages. These include: direct phone calls to Sony Specialists; extended hours support on weekdays and weekends; and next-day spare parts shipment.

To find your local Authorised Service Centre, please visit:
www.sony.co.uk/pro/section/asc-map



Authorised Service Centres for professional products

With a well-established network of independent Authorised Service Centres across Europe, Sony provides customers with fast access to professional product support.

Authorised service partners are trained, managed and supported by Sony so customers can expect the best possible service including rapid response and unrivalled technical expertise for complete peace of mind.

Countries with local Authorised Service Centres:

- | | | |
|---|---|---|
|  Austria |  Germany |  Romania |
|  Belgium |  Greece |  Serbia |
|  Bosnia & Herzegovina |  Hungary |  Slovakia |
|  Bulgaria |  Italy |  Spain |
|  Croatia |  Netherlands |  Switzerland |
|  Czech Republic |  Norway |  Turkey |
|  Denmark |  Poland |  UK |
|  France |  Portugal | |



Trained,
 managed
 and
 supported
 by Sony



Professional & Managed Services

From OB vehicles to complete news studios and much more – whatever the scope of your live production ambitions, we'll help make it happen.

Sony's Professional & Managed Services group operates worldwide, delivering products, systems and complete solutions that help our customers achieve their technological, creative and commercial goals.

We've got the unmatched know-how and practical experience to ensure successful delivery of every live production project, large or small. Tap into as much resource as you need, whenever you need it and on any scale.

We're on hand to provide strategic and technical consultancy as well as hands-on help – from initial business modelling, workflow

analysis and solution architecture to practical implementation, technical integration, acceptance, training, maintenance and support.

Working alongside you as prime contractor, we can also orchestrate the seamless integration of other third party products – ensuring efficient delivery of a complete solution, on time and to budget.



Training

Sharpen your skills and stay ahead of the game with the Sony Professional Training Team.



We offer a wealth of insight and expertise to help broaden your knowledge – from free online e-Learning to product masterclasses, seminars and face-to-face courses led by experienced broadcast production industry professionals.

Our core team of trainers are all experts in their field. They're supported by a network of Independent Certified Experts who can deliver training throughout Europe in your local language.



Get the Knowledge

The Knowledge Portal is our free online training platform that makes learning accessible anytime, anywhere. It's wonderfully intuitive to navigate on computers or tablets, with hundreds of e-learning modules and more being added all the time.

It's the perfect way to deepen your understanding of our products, technologies and solutions. Learn at your own speed, and earn credits for every module you complete.



Bespoke Training Courses

We'll keep your knowledge and practical skills up to date in a fast-moving world. Based on your requirements and budget we can tailor courses to suit every organisation's needs. Training can be delivered at Sony's Digital Motion Picture Centre Europe (DMPCE) in Pinewood Studios, at one of our offices or at a European location of your own choice.



IP Live Studio at Pinewood

Our cutting-edge facility at Pinewood Studios near London lets broadcast operations and engineering staff experience the complete IP Live ecosystem. It's a unique environment to evaluate the latest products, and experience the benefit of IP-enabled workflows at first hand alongside other industry professionals.

For full features visit www.pro.sony.eu

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