VIZRT LIVE PRODUCTION SOLUTION

TECHNICAL SUMMARY

powered by aws

Produce the most engaging content from anywhere with the Vizrt Live Production Solution in AWS



With countless sources competing for your audience's attention there has never been a greater need to create interesting, high-quality content and tell better stories to keep your audiences engaged. To remain competitive, you need more flexible live production technology that can be accessed from anywhere and scaled to meet changing production needs, removing the outdated physical ties to your studio hardware that are currently holding you back and ensuring content production can continue in the face of disruptive global events.

Vizrt Live Production in the AWS cloud is fast, reliable, repeatable, and real. Combining award-winning software-based switching (Viz Vectar Plus), real-time graphics (Viz Engine and Viz Trio), and production automation (Viz Mosart) into a single, fast, AWS cloud-deployable solution, the Vizrt Live Production can be accessed from anywhere to produce everything from traditional programming to live event streaming.

Combined with flexible access software plans, you can quickly benefit from a cloud and IP-friendly solution without substantial costs to get up and running.

85%

REDUCTION IN TIME-TO-MARKET

for cloud-based vs. traditional channel deployment

Learn more at **vizrt.com**

vizrt PRODUCTS

Products in the Vizrt Live Production Solution

4K switching, DDR, and audio mixing with Viz Vectar Plus



Viz Vectar Plus

Combining NDI®-based audio application interconnectivity, multiple version program output, remote operation, and integration of video conference call applications as live sources, Viz Vectar Plus provides the future of software-based switching in the cloud or on premise.

- ✓ 44 external NDI® sources
- ✓ 8-M/E video mixing, plus PreViz
- ✓ 15 frame buffers
- ✓ 68 Keyers
- ✓ 16 Outputs
- ✓ 4 DDR media players (NDI®) (with key+fill)
- ✓ Built-in 44 channel audio mixer
- ✓ 3 configurable multiviewers
- ✓ ISO and Output recording
- ✓ Configurable video and audio delays at every input
- ✓ 3 integrated streaming encoders
- ✓ Extensive macro and automation capabilities
- ✓ Custom panel creation in operator UI and web browser
- ✓ Control via UI or 2-stripe or 4-stripe physical control surface

Simply the best real-time broadcast graphics with Viz Engine

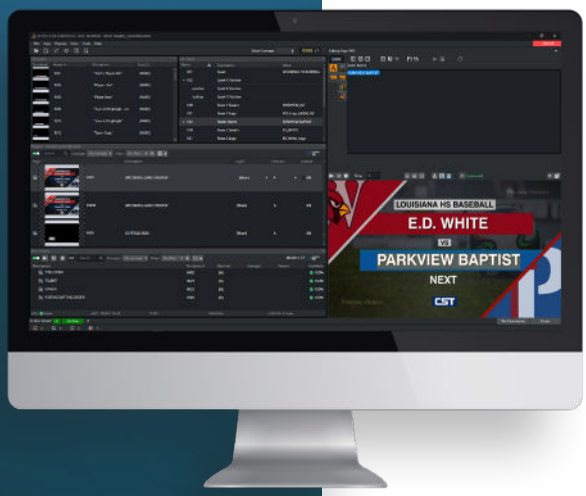


Viz Engine

With superb photo-realism, stunning effects and advanced compositing features combined with unrivalled performance, Viz Engine reduces complexity so you can increase your creativity. With absolute reliability, speed, and precise control, you get access to the best graphics in the world to help you produce the most engaging, high-quality content possible.

- ✓ High performance real-time 2D and 3D rendering, compositing, and processing
- ✓ Simultaneous rendering pipeline including Unreal Engine 4
- ✓ Multi-channel graphics and video playout with key + fill
- ✓ NDI input and output support
- ✓ Embedded audio
- ✓ Versatile plug-in API with 600+ plug-ins available
- ✓ Option to run embedded in Viz Vectar Plus

Learn more at **vizrt.com**



Viz Trio

Control your live graphics with the world's most advanced CG

Viz Trio is the number-one character generator (CG) for live televised events anywhere in the world. The system's flexibility and the high level of built-in intelligence sets it apart from the rest.

- ✓ Template-based and real-time 3D graphics
- ✓ Transition Logic
- ✓ Live Motion Graphics
- ✓ Preview while editing
- ✓ Automation system control
- ✓ Multiple channel control
- ✓ Supports HD and UHD



Viz Mosart

Create consistent, error-free content with Viz Mosart studio automation

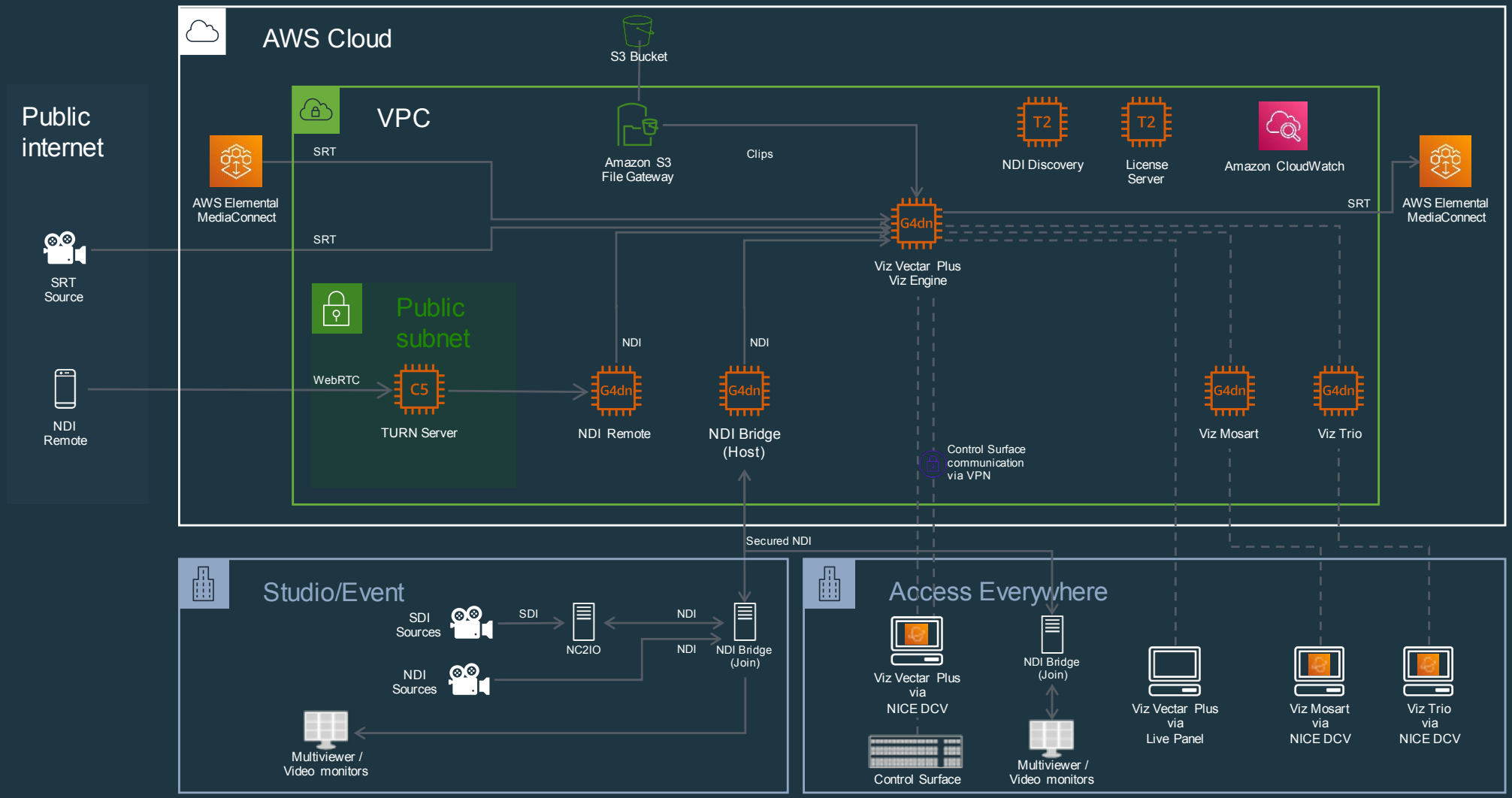
Viz Mosart represents the best of simplified operation and advanced device control, providing the highest quality and speed while eliminating mistakes and lowering operational costs for greater flexibility in news, sports, and other live productions.

- ✓ Brand assurance guaranteed
- ✓ Production accuracy
- ✓ Freedom to change on-air
- ✓ Instant feedback from controlled devices
- ✓ Integration with most NRCS
- ✓ Customizable UI and shortcuts
- ✓ Seamless control of Vizrt Live Production components

vizrt NETWORK DIAGRAM

VIZRT LIVE PRODUCTION ULTIMATE - DEPLOYED IN AWS

Featuring Viz Vectar Plus, Viz Mosart, Viz Trio, and Viz Engine





Cloud-first

Built to run equally well on all leading cloud providers and on-premises, **the Vizrt Live Production Solution can be accessed and operated seamlessly from any remote location**. This gives your teams the freedom and flexibility to create and collaborate remotely across geographic distances and in the most efficient manner possible and ensures production can continue even in the face of disruptive global events.



NDI®-native

As the only live production tool to natively leverage NDI® 5, Vizrt Live Production **enables your live studios to produce far more engaging, interesting, and diverse content by incorporating video, audio, and metadata sources from all over the world in their live productions**. As the most-used IP standard in the world working across existing IT infrastructures, NDI® eliminates the significant, cost-prohibitive infrastructure investments with restrictive overhead requirements that new technologies often present.



Quality - delivered to any platform or output

Create the best quality content you can. Aspect ratio, resolution, and frame rate independent, and capable of simultaneously delivering multiple program versions and streaming formats with two streaming encoders for various screen types, **the Vizrt Live Production helps ensure your content is enjoyed by as many viewers and on as many devices as possible.**



Rapid ROI and low TCO

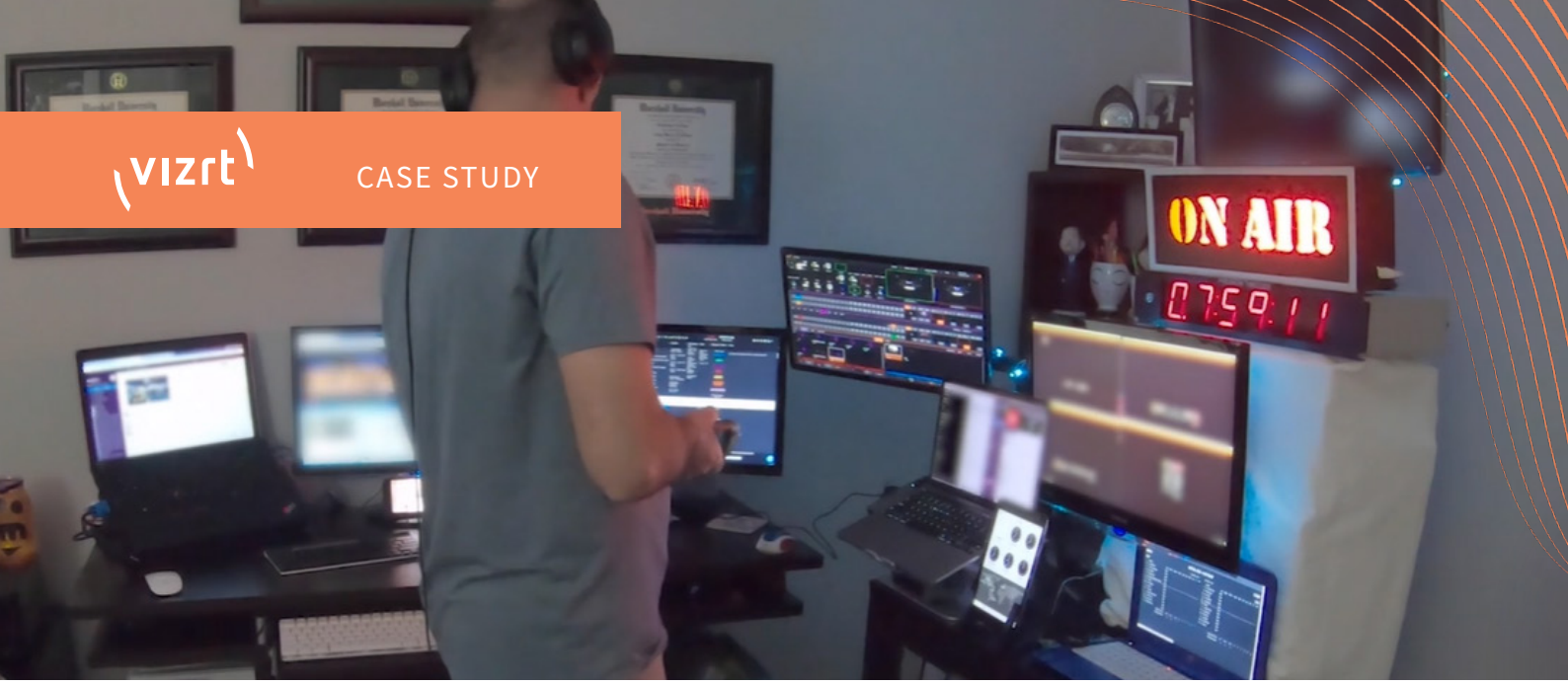
Enjoy rapid return on investment without the upfront costs usually associated with new technology investments thanks to the Vizrt Live Production Solution's Flexible Access model. Tell better stories by producing consistently high quality content with the same resources, with manageable and forecastable costs and a low TCO.



Your team can work from anywhere

Intuitive software-based control panels make it easy for studio operators to remotely control and produce entire productions from any compatible desktop or mobile device, **giving your studio staff the freedom and flexibility they need to collaborate and produce engaging content from anywhere**. Production-ready control panels are available, plus a panel builder tool to design custom software panels geared toward unique productions and workflows.

vizrt CASE STUDY



Media.Monks remotely produce 20 sports games in 4K - despite serious COVID restrictions

The customer

Media.Monks – a global digital-first marketing and advertising services company – were tasked by a major US sports league to remotely produce 20 sports games in pristine 4K UHD

The challenge

COVID-restricted to 2 on-site technicians and a mere 4x4ft tabletop encoding setup, traditional on-site production with OB trucks wasn't possible. Media.Monks needed a solution that would enable their global team to remotely produce the games with a slim on-site presence

The solution

- 6 fixed (unmanned) cameras in the stadium
- 2 Media.Monks Technicians on-site monitoring 20+ Haivision SRT encoders
- Viz Vectar Plus deployed in the cloud for remotely controlled 4K switching

The result

20 games remotely produced in 4K UHD with zero issues, with real-time global collaboration from Media.Monks' production staff from the UK, US, and Brazil.

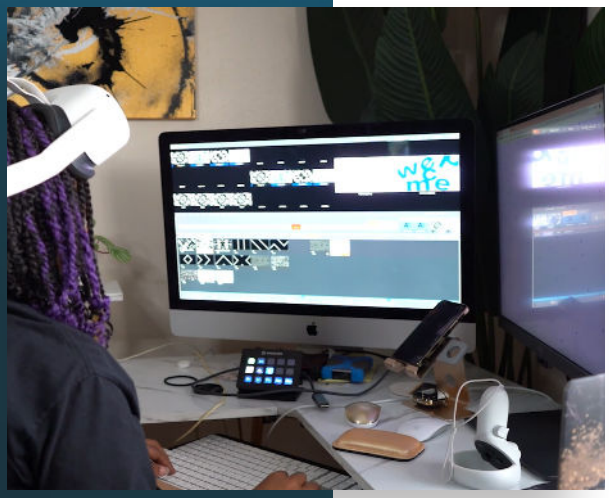
Following the success of this project, Media.Monks now have almost all of their production staff using the Vizrt Live Production Solution for their client projects, helping Media.Monks to enjoy their most productive year ever – despite the COVID-19 pandemic!

> ***It's like being in a broadcast truck, except in the cloud***
>
> Lewis Smithingham,
> Creative Lead,
> Media.Monks

Watch the Media.Monks case study video **here** for more information!

Why broadcasters are switching to cloud-based live productions

Better quality content, reduced climate impact, decreased time-to-market – there are many reasons regional and national broadcasters are exploring the benefits of cloud-based live production.



Wow your audience with better content

Cloud-based live production tools make it easier to use your best team - not the most local team - for each production, **while NDI-native connectivity ensures you can add millions of audio and video sources to make your content more interesting and engaging** so you can wow your audiences.



Reduce your climate impact

Live production in the cloud helps carbon-conscious broadcasters combat their environmental impact by **reducing carbon footprint by over 90%** compared to traditional broadcast channels*.

**As reported by David Travis, Group Director of Content, Broadcast & Platforms at Sky during the AWS M&E Symposium 2021. Sky News' cloud-based productions produce 10kgs of carbon vs. 119kgs for traditional broadcasts*

61%

TCO SAVINGS

Improved IT spending, resilience, TCO, and staff productivity

The cloud provides significant TCO savings for IT spend, with **Discovery, Inc. reporting 61% TCO savings** when switching to the cloud. Additionally, the cloud's inherent increased IT resilience can **reduce tactical IT tasks by 50%**, freeing IT staff to work on more productive and innovative projects.

Decreasing time-to-market

Cloud-based live production environments can be spun up in minutes, compared to the weeks or months it can take for a traditional setup. To evidence this, Kevin McCue, Director of Group Production Platforms at Sky explained during the AWS EMEA M&E Symposium 2021 how they reduced their time-to-market from 6 months for traditional channel deployment to just 3-4 weeks for the COP26 cloud-based programming.

With cloud-based live productions, creating new channels for core or peripheral on-demand programming becomes so much simpler, allowing your teams to focus on keeping your audiences informed and engaged.

"We love the Cloud because we can test new things, fail fast, learn from it, and go again until you get it right"

David Travis, Sky UK, speaking at the AWS M&E Symposium (2021)

Test. Fail quickly and cheaply. Test again. Repeat

In traditional broadcast technology stacks, you only really get one shot to get it right, and any form of failure is a serious problem. With software-based production tools and the flexibility and scalability benefits of cloud computing you can test new things. If all fails, it fails quickly and cheaply. It isn't the end all be all, simply change it up, and test it again. Cloud as a platform enables broadcasters to easily see what works and what doesn't until it meets their exact needs.

vizrt

TECHNICAL CAPABILITIES

Focus on delivering great productions with a more flexible control solution and see rapid return on investment with Vizrt's Flexible Access plans and customizable options designed to suit your specific needs, now and in the future.

	VIZRT LIVE PRODUCTION SOLUTION	CAPABILITIES
Switching	44 Inputs, 8 M/Es, 8 Mix Outputs, up to UHD 2160p60	✓
	Multiviewer	✓
	Audio mixing, 44 channels	✓
	Clip Playback and Recoding	✓
	Live Call Connect	✓
	Live Panel™	✓
NDI®	NDI® Bridge	✓
	NDI® KVM	✓
Cloud	AWS, Azure and Google deployable	✓
Support	Vizrt 24/7 Support	✓
	OPTIONS	
Graphics	Vizrt Graphics Channels	o
	Graphics Control Clients (Viz Trio)	o
	Graphics sharing database (Graphic Hub)	o
	UHD graphics support	o
Automation	Vizrt Studio Automation (Viz Mosart)	o
	Showmaker rundown builder	o
	NRCS integration	o
	Control of Vision Mixer and Graphics Engines	o
	Control of Audio Mixers	o
	Control Video Servers	o
Control Surfaces	Dual row hardware panel	o
	Quad row hardware panel	o

** Vizrt Flexible Access Support is a global support organization providing unlimited 24/7 support for critical production-down issues, a detailed ticketing system for raising and monitoring support tickets, access to an evolving and searchable online product support knowledgebase, and unlimited user access to Viz University product training courses for rapid user onboarding*

✓	Included
o	available



About Vizrt

Vizrt® is the world's leading provider of innovative visual storytelling tools for media content creators in broadcast, enterprise, or new media – unlocking the power of a story for all.

Vizrt offers market-defining software-based solutions for real-time 3D graphics, video playout, studio automation, sports analysis, media asset management, and journalist story tools.

Vizrt offers Flexible Access to our workflows, and our platforms integrate with third-party products because we believe in enabling our customers' success, giving them the right tool for the job, and accelerating their creative excellence.

More than three billion people watch stories told by Vizrt customers every day including from media companies such as CNN, CBS, NBC, Fox, BBC, Sky Group, Al Jazeera, NDR, ZDF, Network 18, Tencent, and many more.

CNN CBS sky Tencent ZDF