

# :update<sup>MINI</sup>

#034



**THIS**  
IS STATE-OF-THE-ART  
WIRELESS  
COMMUNICATION



Actual size

# BOLERO MINI

NOTHING LESS – JUST LESS OF IT

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■ All the wireless power, audio clarity, and seamless integration you expect from Bolero – now in a smaller, lighter form. Introducing Bolero Mini, Riedel's flattest and lightest wireless intercom belt pack yet. Designed for maximum comfort and minimum visibility, Bolero Mini delivers uncompromising performance in a sleek, ultra-compact design that weighs less than a smartphone.





*“Lightweight, low-profile, and ready for anything, it brings next-level communication to every corner of your production.”*

Built for the fast-paced world of live events, broadcast, theater, and sports, Bolero Mini redefines what a wireless belt pack can be. At just 165 grams and 28 millimeters thin, it's made to move – easily clipped to a costume, hidden under a jacket, or strapped to a harness. Streamlined control via two dedicated volume buttons and four programmable buttons for talk, listen, and quick access to key functions keeps communication effortless. Despite its compact size, Bolero Mini delivers the full Bolero experience – from standalone setups for small productions or temporary projects to fully integrated deployments within expansive Artist intercom ecosystems. The Riedel-exclusive ADR technology reduces sensitivity to multipath reflections, ensuring Bolero performs flawlessly even in challenging RF environments where other systems struggle.

Whether you're a stage actor, a rigger, or a floor manager, Bolero Mini lets you focus on the performance, not the gear. Lightweight, low-profile, and ready for anything, it brings next-level communication to every corner of your production.

At IBC2025, Riedel introduced Bolero Mini, the company's most compact wireless intercom belt pack to date. Lighter than a smartphone and just 28 mm thin, Bolero Mini is designed for productions where mobility, comfort, and discretion are essential – whether clipped to a costume, worn under a jacket, or strapped to a harness.

Despite its slim profile, Bolero Mini delivers the complete Bolero feature set. Powered by Riedel's ADR technology for rock-solid performance in challenging RF environments and enhanced with advanced 5G filtering for spectrum resilience, it ensures clear, reliable communication in even the most demanding live settings.

Bolero Mini supports all three Bolero modes – Integrated with Artist, Standalone Link, and Standalone 2110 (AES67) – making it as versatile as it is compact. With four programmable buttons, Bluetooth connectivity, and Touch&Go NFC registration, it offers intuitive usability in a discreet, production-friendly design.

By distilling the power of Bolero into its lightest, flattest form yet, Bolero Mini gives production teams unmatched freedom of movement without compromise – a perfect fit for theater, live music, broadcast, and beyond.

#### BOLERO MINI AT A GLANCE

- 165 g weight, only 28 mm thin
- Bluetooth connectivity
- Simple NFC Over the Air registration
- Decentralized intelligent antenna network
- Up to 250 belt packs and 100 antennas per deployment
- 10 belt packs per antenna through intelligent use of bandwidth
- Advanced DECT receiver (ADR) for multipath mitigation
- Seamless handover & roaming
- Redundant PoE+ and DC power supply antenna scheme





# SAY hi

## TO A NEW ERA OF BROADCAST CONTROL

HI HUMAN INTERFACE NOW PART OF RIEDEL COMMUNICATIONS

■ We're excited to welcome hi human interface® to the Riedel family!

This browser-based, vendor-agnostic control system is designed to bring clarity and simplicity to even the most complex media infrastructures, redefining how broadcast systems are configured, controlled, and operated. The system provides a platform-independent user interface that allows operators to manage a variety of devices, including baseband routers, multiviewers, video and audio mixers, and third-party SDN controllers.

*“With hi, broadcasters gain a powerful yet approachable tool that streamlines daily operations, reduces setup times, and future-proofs productions for whatever comes next.”*

- **Flexibility** – Vendor-independent and format-agnostic, hi unifies video, audio, and data across studios, OB trucks, remote productions, and cloud systems.
- **Usability** – A clean, touch-based interface feels instantly familiar, giving operators effortless control of routing, tally, parameters, and workflows.
- **Simplicity** – With automatic device discovery and zero-configuration setup, hi enables rapid deployment – even for large-scale systems.
- **Scalability** – From a single laptop to enterprise-wide or cloud-hosted infrastructures, hi's distributed architecture ensures resilience and growth without added complexity.

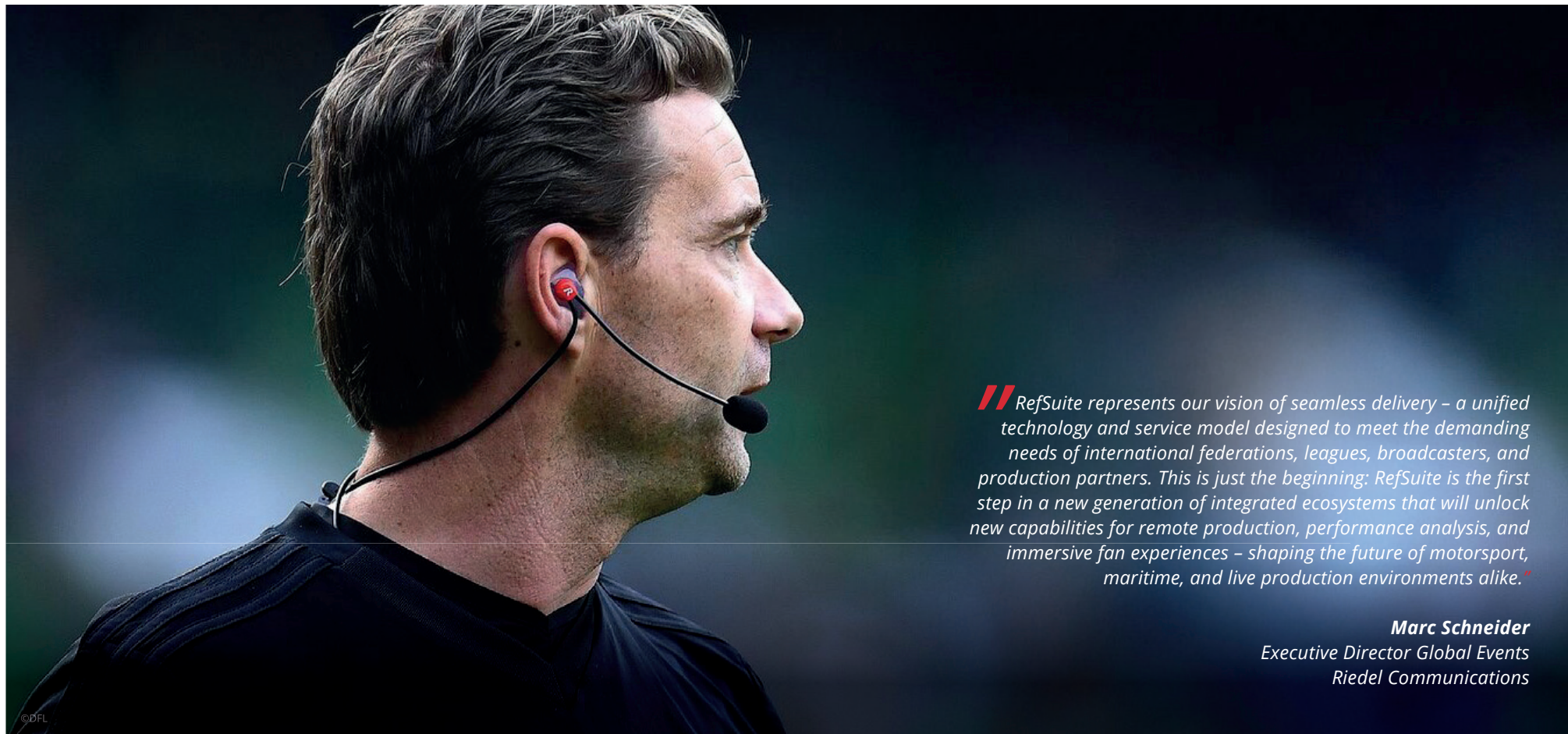
While hi can be operated via touchscreen or Riedel SmartPanels, at IBC2025 we'll also showcase the dedicated **hiPush hardware panels** – from the rack-mounted 1RU hiPush18 with 18 high-contrast LCD buttons to the 2RU hiPush54 with 54 buttons, plus the PoE-powered hiPush32Desktop for maximum flexibility. In total, six panel variants are available. Joining them is the latest addition, the hiDot: a PoE-powered multifunctional touchscreen rotary knob. Alongside the hardware, a **growing range of software features** provides additional tools and flexibility to unlock the full potential of any hi system.



# REFSUITE

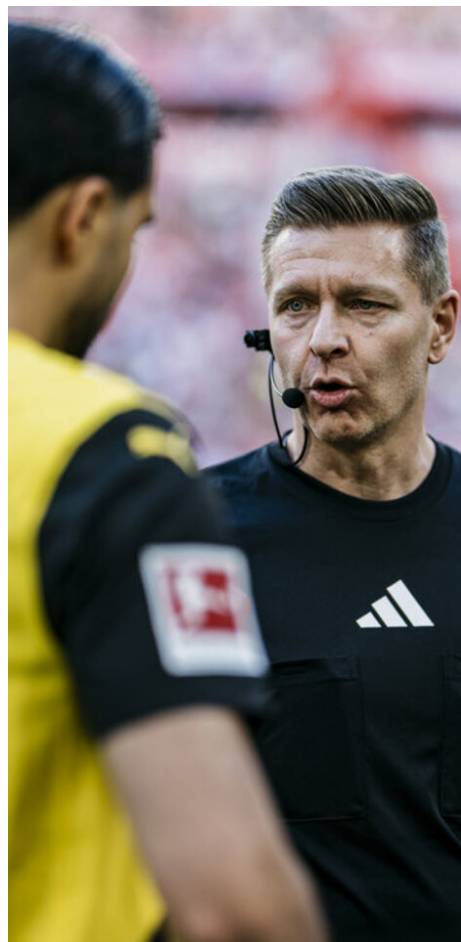
POWERFUL INDIVIDUALLY – UNSTOPPABLE TOGETHER.

■ With RefSuite, our latest Managed Technology solution launched this summer, Riedel is setting a bold new standard in sports and broadcast technology. RefSuite is an integrated, interoperable hard- and software ecosystem specifically engineered for the unique demands of sports officiating, coaching, and live event management. It unites five core components – RefCam, RefBox, RefComms, SidelineComms, and RefCloud – into a single, seamlessly integrated service, complemented by Easy5G private 5G networking and the Riedel Operations Center (ROC) for remote engineering, monitoring, and support. Each module is powerful in its own right, but it is their close integration that delivers the true value of RefSuite: efficiency, reliability, and game-changing innovation.



*“RefSuite represents our vision of seamless delivery – a unified technology and service model designed to meet the demanding needs of international federations, leagues, broadcasters, and production partners. This is just the beginning: RefSuite is the first step in a new generation of integrated ecosystems that will unlock new capabilities for remote production, performance analysis, and immersive fan experiences – shaping the future of motorsport, maritime, and live production environments alike.”*

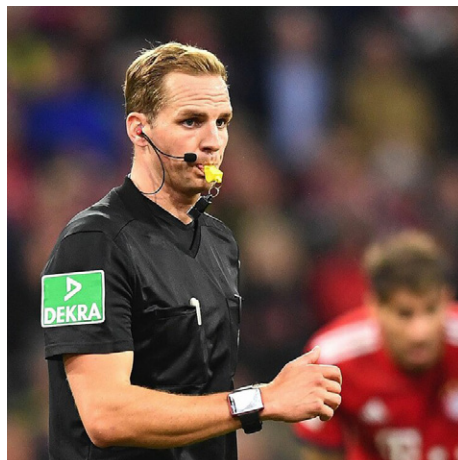
**Marc Schneider**  
Executive Director Global Events  
Riedel Communications



### RefCam®

The Referee's Point of View

RefCam is an ultra-lightweight, head-mounted camera that captures stabilized, wide-angle footage from the referee's perspective. It enriches live broadcasts, post-match analysis, and training with immersive, first-person views that enhance both decision-making and fan engagement.



### RefComms

Referee Communication

RefComms is a secure and reliable wireless communication system designed for professional officiating. Built on Riedel's Bolero S, it delivers secure and crystal-clear audio in any environment using proprietary receiver technology and high-end encryption. As a core of RefSuite, it links with RefCam and RefBox for coordinated, real-time decision-making.



### SidelineComms

Coach & Staff Communication

SidelineComms provides encrypted, interference-free sideline communication for coaching staff. Built on the same Bolero platform as RefComms, it ensures consistent performance in both daily training and matchday situations. It completes the RefSuite circle by empowering teams to coordinate strategies live and securely wherever they are.

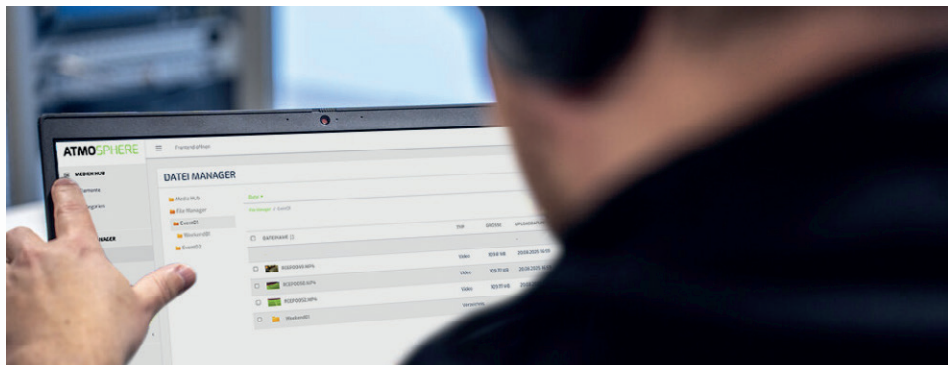


### RefBox

Video Review

RefBox is a comprehensive video review system tailored for officiating and coaching analysis, built on certified VAR technology. Supporting up to 25 synchronized camera feeds with slow motion and clip export, it serves as the analytical core of the RefSuite ecosystem. Integrated with RefComms, it enables officials to create real-time review markers directly via their comms belt packs.





### RefCloud

Media Cloud Services

RefCloud is a cloud-based media management system for storing, processing, and sharing video content, created in collaboration with wige. Fully compatible with RefBox and RefCam media, it allows for seamless content distribution between stakeholders. It's the content backbone of the RefSuite ecosystem – enabling collaborative workflows and centralized media access.

## REFSUITE ADD-ONS



### Easy5G

Low-Latency Wireless Video Backbone

Live contribution made simple: Easy5G is a Private 5G network that provides carrier-grade reliability with WiFi-like simplicity. Optimized for live events and sports broadcasts, it is suitable for applications like full-pitch video streaming via RefCam or remote RefBox review workflows.



### ROC

Remote Operations Center

The ROC is Riedel's 24/7 operations hub for remote monitoring, signal routing, and system control. From video and comms to telemetry, the ROC connects venues to expert support via state-of-the-art infrastructure. Through remote engineering and support, it ensures RefSuite systems stay agile and operational – wherever the game is.





# SIMPLYLIVE

■ In August 2025, we announced a significant expansion of our SimplyLive video production portfolio, introducing new solutions and enhancements designed to deliver greater adaptability, scalability, and integration for broadcast, sports, and live event workflows.





» *SimplyLive Remote Control Unit (RCU)*

The **SimplyLive Production Suite Flex** licensing scheme empowers users to tailor their production environments to their operational and financial needs – whether on-premise, remote, or cloud-based. Users can now choose from a variety of hardware options and deployment models that suit their unique production goals and budget strategies – from one-time purchases to pay-as-you-go or hybrid models.

The newly released **SimplyLive Connect** REST API enables seamless integration with external broadcast control systems, allowing teams to monitor, manage, and configure SimplyLive products as part of a unified production environment. Designed for modern deployment on COTS hardware or public and private cloud infrastructure, the API enhances interoperability, making production infrastructures smarter, more connected, and fully equipped to meet the demands of tomorrow's distributed workflows.

The new **SimplyLive RiView** bundles expand on the acclaimed RefBox software solution designed for officiating, coaching, and analytical workflows. The RiView lineup includes RV4, RV8, and RV16, offering configurations from 4 to 16 HD inputs with synchronized multi-angle control, an intuitive touchscreen-based interface, and seamless remote operation capabilities.

We also enhanced our renowned **SimplyLive RiMotion** live replay solutions with the launch of RiMotion R16 and R166. The RiMotion R16 bundle provides up to 16 HD channels, while R166 offers up to 16 HD or 6 UHD channels.

And last, but not least, the **Venue Gateway** series, a trusted solution for seamless signal transport and multi-channel contribution, receives a major update with the introduction of Venue Gateway 8 Standard, 8 Advanced, and 1612 Advanced.



» *SimplyLive RiView*



# hi THERE

INTERVIEW: TAMÁS SZÁNTÓ - PRODUCT OWNER hi, RIEDEL COMMUNICATIONS

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■ At IBC2025, Riedel announced that hi – human interface will officially become part of the Riedel family. hi, a powerful control system for broadcast and media infrastructures, has long been connected with Riedel through joint projects and close collaboration dating back as far as 2018. Now, with hi joining the portfolio, this partnership enters an exciting new chapter. To learn more about the team behind hi, the story of its development, and what lies ahead, we spoke with Tamás Szántó, one of hi's founding fathers.





### Hey Tamas! So what's your story? How did you end up in this industry?

My journey from the university TV and radio studio led directly into the professional broadcast industry. I began my professional career at the Hungarian commercial television channel TV2, working as a technical manager in playout, and later in the news and production studios. After that, I spent seven years at Bosch as an engineering group leader, where I was responsible for developing the technology for serial remanufacturing and refurbishment of automotive electronics.

### How did the idea for hi come about?

At TV2, I met my friend Tamás Farkas (now Head of hi Software Development), a software engineer who was then developing custom software for quiz shows as freelancer. Sharing common interests and combining our hardware and software expertise, we founded a joint company in 2007 as a hobby project. Our focus was on building custom devices for system integrators – like changeover controllers, router panels, and tally controllers – unique, purpose-built tools rather than off-the-shelf products.

As demand grew, it became clear there was a real gap in the market for affordable, streamlined controllers. In 2017, Broadcast Solutions Germany was looking to develop a modern, intuitive control system and were introduced to us by their Hungarian team. When we met in Budapest, it was obvious that our approach and their vision fit perfectly. Within weeks, we built a working proof of concept, which we showcased at IBC 2017. The positive reception confirmed we were on the right track, and by early 2018 we had assembled the core team and begun full-scale development of what would become hi.

### What challenges in the market convinced you it was time for a new approach?

As a system integrator, Broadcast Solutions frequently works with commercially available control systems for both OB van projects and fixed installations, giving them a deep understanding of their strengths and weaknesses. The primary challenge was the excessive installation time, which required a significant number of additional engineer-days to be ordered alongside the system, which made the final cost very high. This led to the question of how the process could be simplified, accelerated, and ultimately made more cost-effective by breaking with trends and defining the next generation of control systems.

### How did – and does – hi differ from other solutions in the market?

We established three main principles for ourselves when designing the system, which we wanted to use to differentiate from other solutions on the market:

1. Develop a modern, cloud-compatible architecture using web technologies. This ensures that the product is future-proof.
2. Use a web-based user interface that must be usable from both PC and tablet, without requiring any installed application, and accessible from anywhere. This also includes an extensive user rights management concept.
3. Train the system on all signal paths and the meaning of these signals by using tags, enabling us to automatically generate and update the control panel views needed for daily operations. This saves a significant amount of manual configuration work during commissioning and in later use.



» The hi team at their first visit to the Riedel headquarters.

**The entire hi team will be joining Riedel. What strengths or specialties do they bring to Riedel that you think will stand out?**

Hi is a vendor-independent control system, and even after integration we plan to maintain it as a standalone product. One of the most exciting areas of expertise we bring is the ability to standardize the numerous protocols from different manufacturers, along with their varying operational logics, into a single, unified workflow. The challenge is to make it possible for users to work with e.g. Baseband, NMOS, NDI, or Dante resources in a transparent, secure, and straightforward way – without requiring any specialized technical knowledge.

**What excites you most about joining the Riedel team?**

From the very beginning, we have maintained a mutually beneficial relationship with Riedel. Our first project together dates back to early 2018. Over the years, we have supported each other both in development and in sales, making it feel natural to continue shaping our future together.

*“// Customers don't need to be Riedel users to benefit from it – hi will seamlessly integrate with third-party products, even those that compete with Riedel, ensuring maximum flexibility and openness.”*

**How will hi fit into Riedel's product portfolio – will it remain independent or be integrated into other product families?**

hi will become a dedicated product line within Riedel, managed by its own product manager and supported by its highly motivated development team. At the same time, hi will continue to operate as an independent control and workflow system. Customers don't need to be Riedel users to benefit from it – hi will seamlessly integrate with third-party products, even those that compete with Riedel, ensuring maximum flexibility and openness. In parallel, we want to ensure full compatibility across the Riedel portfolio, enabling integrated workflows and strengthening Riedel's position as a solutions provider rather than a supplier of isolated product silos.

**How do you see hi evolving within this broader ecosystem?**

On one hand, I believe that Riedel's sales capabilities will quickly open new doors for hi, enabling the product to gain recognition and success across a much broader range of markets, including new countries and continents. On the other hand, I see significant potential for deeper integration with other Riedel products, such as developing intercom workflows, the STAGE platform, and provisioning toolsets. While we are currently strong in small and medium-sized broadcast systems, under the Riedel brand we are well positioned to expand into the ProAV/ Theater and Facility sectors as well.



►► hi founders **Tamás Szántó**, Product Owner hi, and **Tamás Farkas**, Head of hi Software Development

**How will the acquisition benefit existing hi customers?**

Our support service is currently performing exceptionally well, and we plan to maintain this standard even after the integration. At the same time, we will have the opportunity to provide support across multiple time zones and potentially expand our service offerings. Additionally, thanks to development synergies and deeper integration with Riedel products, the systems of our existing clients can be enhanced with new and valuable features.

**In what ways does hi complement Riedel's DNA in broadcast and live production?**

There are already areas where broadcast and live production can benefit from hi, for example our NMOS registry, Dante, or NDI integration. In the longer term, we will be able to offer our customers complete solutions that include any Riedel product along with the corresponding control layer. Our development team and workflow are highly agile, allowing us to release new versions with exciting functionalities every two to three months. This not only keeps interest and excitement in the product high but also enables us to respond quickly to customer requirements.



# FROM THE REF'S EYES

EASY5G AND REFCAM BRING FANS INSIDE  
GERMANY'S MOST FAMOUS CLUB SOCCER FIXTURE

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■ When German soccer teams FC Bayern Munich and Borussia Dortmund clashed in April's highly anticipated "Der Klassiker," the action on the pitch wasn't the only thing making headlines. Behind the scenes, Riedel Communications was quietly rewriting the playbook for live sports broadcasting, rolling out its Easy5G™ Private 5G network and RefCam® Live system for the first time in a packed stadium.







*“// This setup provided fans with a unique, stabilized point-of-view feed, streaming live 1080p50 video straight from the referee’s perspective”*



The project, initiated by the Deutsche Fußball Liga (DFL), marked a technological milestone: never before had Easy5G and RefCam been deployed together in such a high-pressure, high-profile environment. With 75,000 fans filling Munich’s Allianz Arena, Riedel’s team had less than an hour to set up the Easy5G network – demonstrating just how swiftly advanced broadcast infrastructure can be installed, even in venues lacking permanent technology.

At the heart of the innovation was the RefCam Live system, a lightweight, head-mounted camera affixed to the referee’s headset. This setup provided fans with a unique, stabilized point-of-view feed, streaming live 1080p50 video straight from the referee’s perspective.



The camera and communication gear, discreetly tucked under the official’s jersey, ensured the referee could move freely and focus on the match, while viewers at home got a front-row seat to every decision and interaction on the field.

Riedel’s Managed Technology division handled every aspect of the deployment, from technical setup and frequency management to on-site support for match officials. Even areas outside the 5G coverage – like the referee’s locker room – were accounted for, with Wi-Fi-based video previews streamlining the pre-match process.

For the DFL, this wasn’t just about testing new gadgets; the league saw a chance to redefine how fans experience soccer. With just a single Easy5G base station, the Riedel team was able to cover the entire pitch and tunnel, with the system performing seamlessly throughout the match.

The benefits went beyond broadcast spectacle, with the referee’s-eye view helping demystify the official’s role for fans and can be a valuable tool for referee training. By sharing this perspective, the league hopes to foster greater understanding and appreciation for the challenges referees face.

The RefCam footage also became a centerpiece of the Bundesliga Special Show “Der Klassiker Unseen – Ref’s-Eye View” and was widely shared across social media. This initiative, made possible under IFAB’s body-worn camera testing program and with support from FIFA and the DFL, underscores the Bundesliga’s commitment to innovation and fan engagement.

For Dominik Scholler, the DFL’s VP of Product Management and Innovation, the experiment was a clear success: “We’re always looking for ways to bring fans closer to the game and set new standards in sports media. Working with Riedel let us turn that vision into reality – fast and flawlessly.”







# GARAGE 59 CHASING GLORY

WITH RIEDEL'S CUTTING-EDGE COMMUNICATIONS

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■ Garage 59 has steadily built a reputation as one of the most dynamic British teams in GT racing. Founded in 2016, the Brackley-based outfit quickly made its mark by clinching the Blancpain GT Series Endurance Cup in its debut year. Since then, Garage 59 has become a staple in Europe's top GT championships, fielding McLaren, Ferrari, and Aston Martin race cars and racking up titles including the GT World Challenge Pro-Am Endurance Drivers' crown and the British GT Championship Silver-Am title. Beyond modern GT racing, Garage 59 also keeps its historic racing heritage alive, competing at events like Goodwood Revival and maintaining classic machines such as the Lotus 22 and Can-Am McLarens.



Yet Garage 59 faced a persistent challenge as it prepared for the 2025 season: ensuring seamless, reliable communication during the high-pressure environment of endurance racing. With three cars entered across the GT World Challenge Europe and International GT Open, the need for flawless coordination became even more critical. However, the team's previous communications setup struggled to keep pace with the demands of round-the-clock racing, where every second counts and split-second decisions can make or break a race. The complexity of managing multiple cars, pit crews, and engineers – often across vast circuits and in unpredictable conditions – meant that even minor lapses in clarity or reliability could lead to costly mistakes.



*“With three cars entered across the GT World Challenge Europe and International GT Open, the need for flawless coordination became even more critical.”*

Recognizing that their ambitions required a step-change in technology, Garage 59 turned to Riedel Communications for a solution. The partnership, formed just ahead of the new season, brought Riedel's Bolero wireless intercom system and RiFace radio interface into the team's arsenal. This fully integrated setup, supported by Riedel's Managed Technology Division, delivers crystal-clear, scalable communications that have already proven invaluable in the heat of competition. The system includes not only the Bolero intercoms but also custom helmet kits and a dedicated Riedel rack that seamlessly ties together Bolero, StageLink, and RiFace units. This configuration has dramatically improved in-race coordination, allowing Garage 59's crew to operate with a new level of efficiency and confidence.

Team Principal Andrew Kirkaldy credits the Riedel system for giving Garage 59 a genuine competitive edge, noting that its clarity, reliability, and adaptability have become essential tools in the team's pursuit of victory. With Riedel's ongoing support throughout the 2025 campaign – and the company's branding now proudly displayed on the team's McLaren race cars – Garage 59 is poised to maintain its status as a GT powerhouse.



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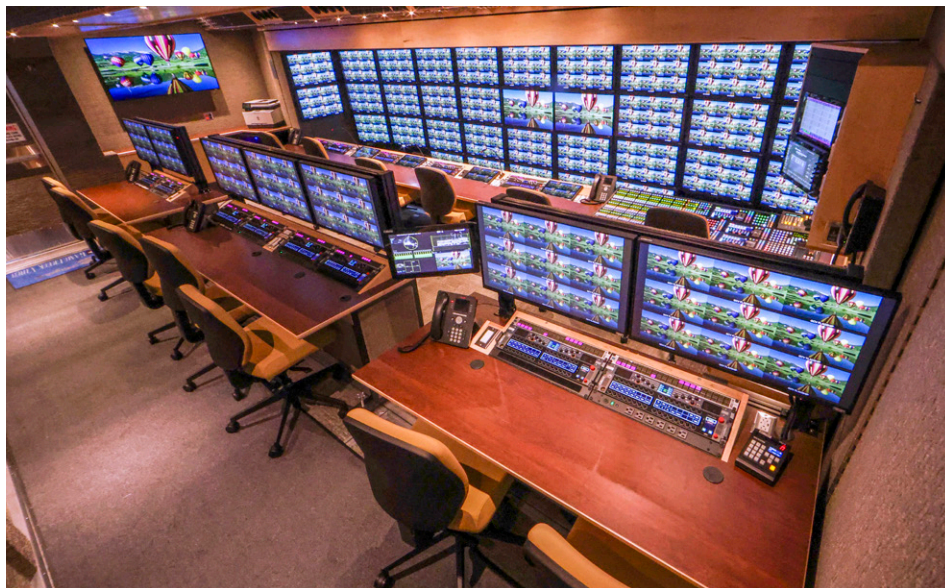


*“When Game Creek’s customers specifically asked for Riedel gear in the company’s newest trucks, Game Creek answered with a resounding yes!”*





■ Without remote television production trucks, we wouldn't have the live sports broadcasts we have today. Truck provider Game Creek Video serves the largest television networks, production companies, and news organizations in the world. Its fleet of outside broadcast (OB) trucks provides flawless coverage for major sporting and entertainment events, including professional football, baseball, motorsports, golf tournaments, and ski competitions.



Built for two major U.S. sports broadcasters to cover their largest productions, the trucks – two sets of interconnected A, B, and C units – use the same Riedel equipment as the broadcasters use in their fixed facilities. The trucks are equipped with the Riedel Artist digital intercom system to enable high-fidelity communications during live productions and the Riedel MediorNet FusioN stand-alone IP converters to streamline signal delivery.

Riedel FusioN gateway products deliver UHD outputs to local monitors throughout each of the three-truck systems, eliminating the need for a centralized gateway solution to supply the video. Nearly 200 FusioN 3B devices take SMPTE ST 2110 signals all the way to the monitors and then convert the signals to SDI. By using ST 2110 for signal exchange, Game Creek cut down on the number of interconnects and simplified signal-

sharing between systems. Also, the lack of a centralized gateway meant Game Creek could reduce the amount of wire (and weight) inside the trucks – making a big difference in the company's ability to meet Department of Transportation weight thresholds.

Likewise, the Artist digital matrix intercom system is one of the most important components of the new trucks because its small footprint has made it possible to go from a large, centralized intercom system down to a 2-RU, decentralized one. Game Creek deployed Artist-1024 nodes in each unit, using at least 768 ports per node to support each three-truck system. There is a sizeable interconnect between the intercom and the audio mixer, with several ports dedicated to interfacing with broadcasters' intercom systems back at their facilities. The Artist also supports intercom from both ST 2110-capable CCUs and from legacy camera setups, which require converting analog signals out of the CCU into Dante then to AES67.

Users appreciate Riedel's superior sound quality, which makes for a much more comfortable experience for people who have to wear headsets for hours on end. The audio fidelity was a big selling point.

Game Creek has about 90 Riedel SmartPanel RSP-1232HL interfaces at operator stations inside the trucks, plus a few for field deployment to communicate with crew members throughout the venue. Game Creek has also added the Riedel Bolero wireless intercom system, giving operators inside the truck constant access to people in the field and vice versa.

Given that the OB truck workflow is very different from, say, studios and theaters, Game Creek's expert input helps Riedel provide the best possible solution. In fact, the Game Creek team has been instrumental in many of Riedel's most recent firmware updates.



**“Riedel stands out because they continuously invest in advancing their systems rather than just keeping up with technology. They listen to our needs and respond quickly, which is invaluable. In our no-fail business, it's reassuring to have a supplier like Riedel, that shares that mindset.”**

**Pat Sullivan**  
President  
Game Creek Video



# HALL OF SOUND



## BOLERO POWERS SEAMLESS BACKSTAGE COMMUNICATION AT ROYAL ALBERT HALL

■ For more than 150 years, London's Royal Albert Hall has welcomed everything from orchestral concerts and rock shows to ballets, sporting events, and poetry readings. The iconic venue is renowned not only for its architectural grandeur but also for its adaptability, with a flexible stage and multiple performance spaces that can transform to suit any event.

But with this versatility comes a unique challenge: keeping the technical infrastructure, especially backstage communications, as agile and reliable as the performances themselves. That's why the Royal Albert Hall recently turned to the Riedel Bolero wireless intercom system, making it the heart of its upgraded in-house communications.



► Ben Evans, Nacho Lee & Liam Croft



*// The system isn't just for stage managers  
and show callers."*



Before Bolero's installation, the Hall's communications setup was far from seamless. The technical team had to rely on rented systems from various manufacturers, which often brought headaches rather than help. These systems required complicated license management and didn't always play nicely with the gear that incoming productions brought with them.

The Hall needed something more user-friendly – an intercom that would deliver clear, reliable audio and integrate effortlessly with the equipment most clients preferred. The goal was a system with network-based flexibility and easy scalability, something that would outpace the point-to-point solutions offered by competitors.



The Bolero system checked every box. Its network-based design means it can be configured quickly for anything – from intimate spoken-word evenings to massive productions like the Olivier Awards. When a show demands more than the standard 10 wireless packs, the Hall can simply rent additional packs or antennas and expand the system on the fly. During the 2024 Olivier Awards, for example, the in-house Bolero setup was easily scaled up to 30 packs, connecting seamlessly with Riedel's Artist mainframes and panels to serve over 30 users across the venue.

Bolero's impact is felt daily backstage. The system isn't just for stage managers and show callers – its "shout" feature lets front-of-house and monitor engineers stay in constant contact, while separate communication rings keep lighting, audio, and production teams coordinated without crosstalk. The Hall's technical crew can adapt the system for each event, ensuring smooth operations even when a visiting production's own wireless system fails mid-show – a scenario where Bolero has already saved the day.

With Bolero at its core, Royal Albert Hall has reinforced its reputation for technical excellence and reliability. The new system's ease of use, robust compatibility, and effortless scalability mean every production, no matter how complex, can count on flawless communication. For the Hall's world-class team and the artists they support, that means more time focused on delivering unforgettable performances – and less time worrying about what's happening behind the curtain.



# A WINNING ROUTING STRATEGY

FOR ONE OF NORTH AMERICA'S TOP SPORTS VENUES

■ Scotiabank Arena, one of North America's premier sports and entertainment venues, has been upgraded with Riedel Communications' MediorNet decentralized routing system, implemented with the help of systems integrator Matrix Video Communications Corp. (MVCC). MediorNet provides much-needed flexibility and reduces setup time when production teams switch between hockey, basketball, and hundreds of other events throughout the year.











# STEEL, HEAT AND COMMS

RIEDEL AT BLUESCOPE PORT KEMBLA STEELWORKS

■ It's really quite something to be on the factory floor experiencing the BlueScope steel mill in action. It's hot, loud and unrelenting. A 200m-long assembly line sees a red-hot 20-tonne steel slab getting cleaned, pressed and/or rolled into more usable product. At each point of the process, an

operator oversees operations – from a control booth called a 'pulpit' and via a phalanx of sensors and meters. Occasionally, something might go wrong... and when it does, time is of the essence. Communication is key, and the stakes are high.

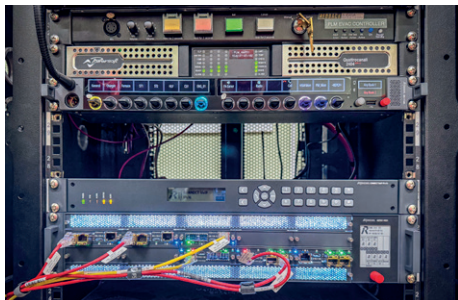
The Port Kembla BlueScope steel mill was built in the 1960s and until recently, the two-wire analogue partyline comms system was of that vintage. Scratchy and inflexible but serviceable, it did a job of sorts – complemented by a modern Tetra digital radio system for comms on the factory floor. But as the cable infrastructure inevitably failed, operators were forced to use landline and mobile phones to communicate. It was unsatisfactory and potentially unsafe. Benjamin Yeatman, BlueScope Hot Mills Electrical Engineering Team Leader, started scoping out a replacement comms system – something fit for purpose: “We started exploring options from different vendors and aligning them with our requirements. Key needs included: partyline communication, flexibility in call routing, and the ability to broadcast to all or communicate with individual pulpits.”

After careful consideration, Benjamin specified a Riedel Artist comms system: “The old system was fixed to one channel and couldn't be extended. With Riedel, we can tailor communication between pulpits, implement partylines, and integrate external hardware. The integration was seamless and enhanced communication across the plant.”



The integration with the existing Tetra radio system was especially important. As mentioned, prior to the upgrade, wired comms and the radio system were entirely siloed, and often operators in a pulpit and crew on the floor would communicate via their mobile phones. Riedel's answer is something called Juggler, which seamlessly integrates the Tetra radio network into the wired intercom matrix. The system allows calls from any port/group/conference of the Artist system to up to 64 individual Tetra radio groups – and vice versa.





Tetra isn't the only third-party system that Artist is interfacing with. It also talks fluently with distributed speakers, microphones, and logic-based triggers via GPIO. These integrations allow operators to work with a control system that's both responsive and intelligent, where audio signals are prioritised dynamically depending on the situation.

Safety is paramount in a plant that deals with 1200°C steel and heavy machinery. The Artist system plays a pivotal role in the site's emergency management strategy, ensuring that evacuation protocols can be executed without hesitation or confusion.



"Our evacuation protocol relies heavily on the intercom," continues Yeatman. "Riedel allows us to prioritise emergency broadcasts, overriding any ongoing communication. That has been a vital feature – it ensures that during high-risk events, we can reach everyone instantly with a single press of a button."

Beyond emergencies, Artist's ability to layer and prioritise multiple audio streams – whether alarms, background music, or plant-wide announcements – helps ensure operational clarity. In a noisy, distributed site, clarity is everything.

"Whether it's an emergency alarm, background music, or an evacuation broadcast, operators always hear the most critical signal clearly," Yeatman concludes.

The BlueScope steel mill is a 24/7 operation and downtime is costly, so service and reliability of any new comms platform was crucial. Benjamin Yeatman again: "Support was a core selection criterion. Riedel offers robust service level agreements and local support, which is critical for our 24/7 manufacturing environment. Reliability is also essential. Without comms, the process stops. Riedel's built in redundancy in its Artist frames has proven to deliver excellent uptime and dependability."

It's astonishing just how quickly the team has fully adopted the Riedel Artist comms system. In fact, even before Benjamin and his team had finished commissioning the system, operators were already making good use of the Artist panels in the pulpits. Now, the system is essential and a natural part of the mill's workflow. Operations Manager, Karl Pajkovic, noticed another interesting (and welcome) spinoff of the Riedel Artist integration: "Each pulpit can now communicate directly with another, which is crucial for clear communication. The audio quality is excellent – loud and robust – which is especially important in our heavy industrial environment where noise levels are high. But more than that, the comms is bringing the team together. Being alone in a pulpit can be pretty isolating, especially for new team members, but the Riedel comms allows us to include those operators and for experienced crew to connect even better. It's good for morale."



*Support was a core selection criterion. Riedel offers robust service level agreements and local support, which is critical for our 24/7 manufacturing environment."*





# WIRED FOR WORSHIP

## BUILDING A MODERN MEDIA NETWORK AT BAPS ROBBINSVILLE

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■ As the largest Hindu temple in the United States and the third largest in the world, BAPS Swaminarayan Akshardham in Robbinsville, New Jersey, is much more than a place of worship. It serves as a vibrant hub for cultural gatherings, religious ceremonies, and community events, welcoming

thousands of visitors every week. The campus is a visual marvel, with buildings constructed from marble and adorned with intricate carvings that evoke centuries-old traditions. Yet, behind these beautiful facades lies a sophisticated operational ecosystem that keeps the temple thriving.



At the heart of BAPS Robbinsville's daily life is an extensive volunteer force. These dedicated individuals rotate through different roles and locations around the campus, highlighting the need for a communication and media infrastructure that is robust, adaptable, and simple enough for non-professionals to use. This philosophy of accessibility paired with innovation ensures that everyone – visitor or volunteer – enjoys a seamless experience.

Designing a modern infrastructure for such a sprawling, intricately built site presented unique challenges. The need to distribute high-quality video and audio across multiple venues – some large, some intimate – was critical for coordinating events and broadcasting religious services. However, the ornate marble construction made post-build cabling both impractical and risky to the temple's aesthetics. The technical team needed a solution that was powerful, discreet, and expandable for future needs.



### Sacred Spaces, Smart Systems

While the temple's planners initially leaned toward an IP-based system, their direction shifted after discovering Riedel's MediorNet. It offered the networked video distribution they needed but with the operational simplicity of SDI. This balance of power and ease-of-use proved to be a game-changer.

MediorNet not only met the temple's technical requirements but also aligned with its volunteer-driven model. The Riedel solution's intuitive interface made it easier for non-professionals to operate, and its scalability allowed it to serve both large and small venues across the campus. This consistency is key: Volunteers often rotate between locations, and having a unified platform means they only need to learn one system. That reduces training time and ensures smooth operations no matter where they're serving.

At the core of the system is a fiber-based network and a centralized control application, anchored by the MediaWorks platform. From a single control room, operators can manage video feeds, operate robotic PTZ cameras, and handle recording and playback. This setup enables religious ceremonies to be streamed live online and displayed across the campus, ensuring that worshippers – whether on-site or remote – can participate fully in temple life.

A standout feature of the network is the MediorNet infrastructure itself. It handles video, sync, and MADI audio distribution, while also providing Ethernet connectivity through RJ45 ports on the MicroN nodes. This allows the data network to be extended across the temple using the same fiber backbone, simplifying operations and reducing hardware complexity.





### Technology in Service of Tradition

Since integrating the MediorNet and Bolero systems, BAPS Robbinsville has seen significant gains in efficiency and capability. The distributed network means centralized production can occur no matter where an event is held, with religious leaders moving freely between shrines as video and audio follow them without a hitch. Streaming services have become smoother and more reliable, increasing the temple's reach and inclusivity. The Bolero wireless intercom, meanwhile, has become vital for event coordination, delivering crystal-clear communication even during crowded, bustling festivals.

As the temple grows, adding new nodes or expanding the fiber network is a straightforward affair, ensuring that BAPS Robbinsville is more than ready to meet the demands of the future – while staying true to its spiritual roots.

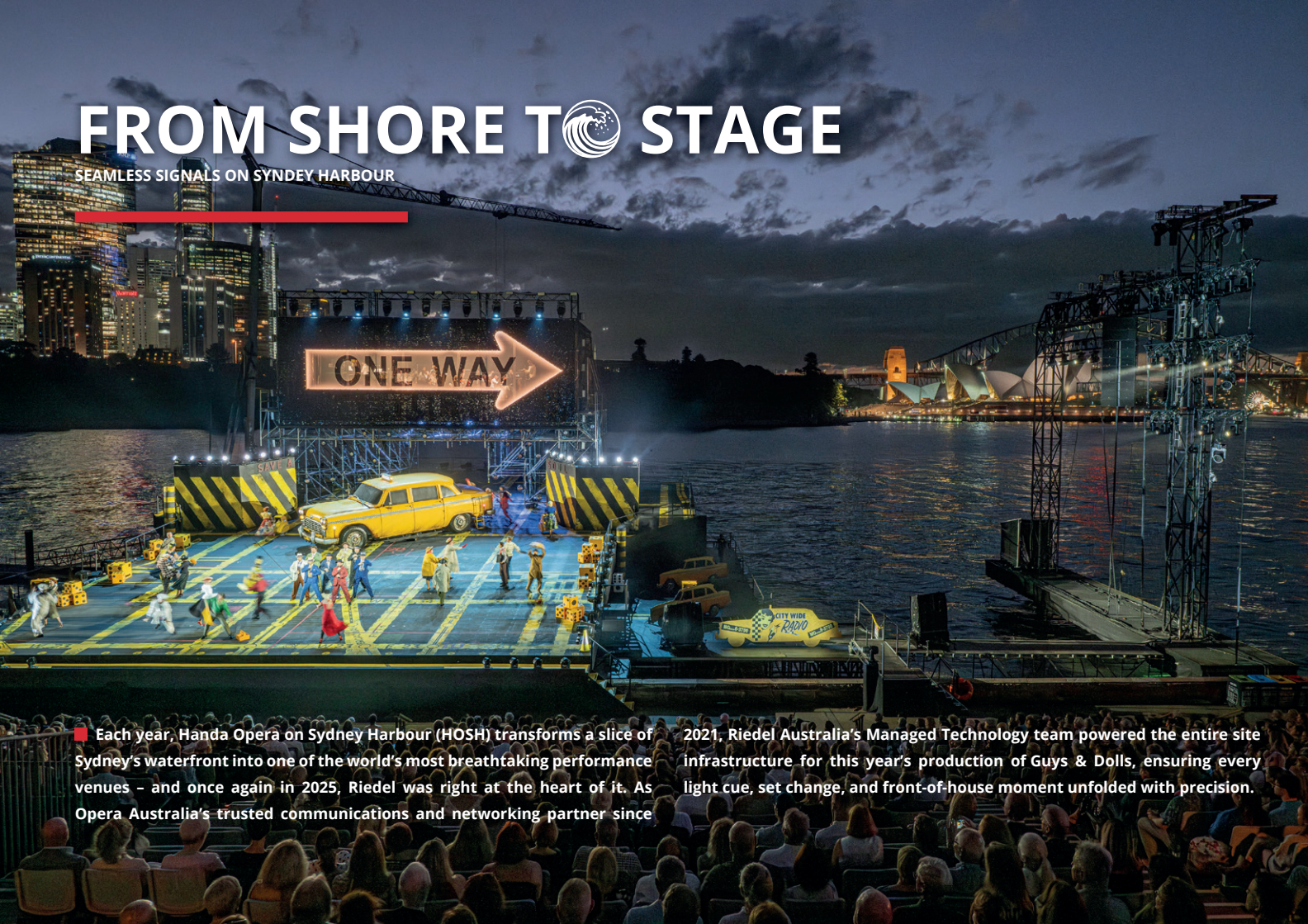
*“Riedel's solution has been a game-changer: It's reliable, easy to use, and incredibly flexible. Whether we're live streaming a ceremony, coordinating a festival, or just handling day-to-day operations, the system lets us focus on what matters most – serving our community.”*





# FROM SHORE TO STAGE

SEAMLESS SIGNALS ON SYDNEY HARBOUR



■ Each year, Handa Opera on Sydney Harbour (HOSH) transforms a slice of Sydney's waterfront into one of the world's most breathtaking performance venues – and once again in 2025, Riedel was right at the heart of it. As Opera Australia's trusted communications and networking partner since

2021, Riedel Australia's Managed Technology team powered the entire site infrastructure for this year's production of *Guys & Dolls*, ensuring every light cue, set change, and front-of-house moment unfolded with precision.

With the city skyline and Harbour Bridge as a backdrop, HOSH is as technically demanding as it is visually spectacular. The venue is built from the ground up in just four weeks: a 3000-seat open-air amphitheater, a floating stage, FOH towers, back-of-house facilities, and hospitality spaces – all interconnected by a unified comms and data network designed and supervised by our Managed Technology team.

This year's setup featured a fully networked Artist intercom system, alongside 18 2300 Series and 3 1200 Series SmartPanels across departments. Around 100 communication endpoints were in use every performance night, including Bolero wireless belpacks for the stage crew, PunQtum wired systems for follow-spot operators, and trunked two-way radios for security and venue staff.

The unified infrastructure went far beyond intercom. The MT team supported internet access, CCTV, security systems, and even cashless payment services – everything running over a single fiber network designed to reduce duplication, simplify workflows, and boost reliability.



"Instead of running separate cables for audio, lighting, and comms, our design allowed all departments to plug into the same backbone," explained Roo Smith, Senior Project Manager at Riedel. "That's a huge win in efficiency and reliability, especially on a site this complex."

Working in the marine environment of Sydney Harbour comes with unique challenges – salt mist, water exposure, oyster shells, and more. To ensure long-term performance, we deployed heavily armored fiber lines running from shore to the floating stage via a submerged service tunnel, protecting every connection point from physical and environmental damage.





The design also included a more resilient CCTV system that proved essential for monitoring crowd safety and responding quickly to incidents. “If we have a medical emergency in the audience, or any kind of issue that needs locating fast, the CCTV is the best way to find out what’s going on and guide staff to help,” said Pablo Puig, Production Manager at Opera Australia.



What truly makes this project special is the deep collaboration between Riedel and Opera Australia. From pre-production planning to nightly performances, both teams worked closely to anticipate needs and adapt in real time. From fine-tuning RF coordination to avoid interference to managing last-minute network demands, the Riedel team was embedded every step of the way.

“Our partnership with Opera Australia and HOSH represents the very best of what Riedel stands for – technical innovation, collaboration, and a relentless commitment to excellence,” said Smith. “Bringing this extraordinary event to life each year is no small feat, and we’re proud to play our part in making the magic happen.”

As HOSH continues to raise the bar for outdoor live performance, Riedel is honored to help deliver the clarity, control, and connectivity that bring it all together – on time, on cue, and on the harbor.



*“Instead of running separate cables for audio, lighting, and comms, our design allowed all departments to plug into the same backbone.”*



# PROJECT PICTURES

YOUR DAILY UPDATE

