



BOLERO WIRELESS INTERCOM

FOR MOTION PICTURE PRODUCTIONS



reddot award
winner



BOLERO

THE STATE-OF-THE-ART WIRELESS INTERCOM SYSTEM
FOR SAFE AND EFFICIENT FILM PRODUCTION

As an all-new wireless intercom system capable of supporting up to 250 beltpacks and 100 antennas in a single deployment, Bolero is a true game-changer. Bolero redefines the wireless intercom category with features such as its ADR (Advanced DECT Receiver) with multi-diversity and anti-reflection technology for greater RF robustness, “Touch&Go” NFC beltpack registration, and versatile operation as a wireless beltpack, a wireless keypanel, or — in an industry first — a walkie-talkie.

Bolero is available in a DECT version and in the new 2.4 GHz version. A high-clarity voice codec provides both higher speech intelligibility and more efficient use of RF spectrum supporting twice the number of beltpacks per antenna for the same radio bandwidth as other systems. The Riedel-exclusive ADR technology combines a unique receiver design with multiple diversity elements specifically designed to reduce sensitivity to multipath reflections, making Bolero DECT and 2.4 GHz useable in challenging RF environments where other systems have great difficulty.

The beltpack itself features six intercom channels and a separate “Reply” button for a quick reply to the last caller. Bolero’s sunlight readable and dimmable display can be rotated so that it is readable in any orientation. A game changer for many production environments is Bolero’s Bluetooth support, allowing to connect Bluetooth headsets or Smartphones. When a Smartphone is connected, the beltpack can act like a car’s “hands free” setup so the user can receive calls on their phone and talk and listen via their beltpack headset. Users can also inject phone calls directly into the intercom channels, providing new levels of workflow flexibility.

Based on Riedel’s extensive rental experience, the beltpack uses a combination of premium materials, including high-impact plastics and rubber overmolds, making it both tough and comfortable to use in any situation.

BOLERO

WIRELESS INTERCOM SYSTEM FOR FILM PRODUCTION

ENHANCED WORKFLOWS FOR MOTION PICTURE PRODUCTION

Group Conference & Private Chat: Bolero beltpacks offer 6 fully programmable keys, assignable to point-to-point private channels between Director & DoP, or a group conference to involve all the ADs, Grips or Cameras. Most importantly, these conversations can all happen at the same time, or prioritized as per different workflow.

Seamless Integration with Walkie Talkie channels: The Bolero system can seamlessly interface with existing Walkie Talkie systems to involve a wider group of personnel into the communication workflow. In most cases, Bolero acts as a complement to radio communication, with an average Bolero/radio user ratio ranging from 1:20 to 1:10. Bolero gives key executive crew members the ability to remove themselves from Walkie Talkie routine channels for a more efficient communication.

Superior coverage: Bolero's outstanding coverage eliminates out-of-range issues common with simplex radio systems. Therefore, the production crew can communicate even if they are not on set.

Direct integration with 3rd party systems: Bolero systems can interface with any 3rd party automation system or device when required. For instance, a rolling cue light and bell sound could be triggered from an assigned key on the beltpack.

Direct integration with production sound mixers: With Bolero, you can monitor the live PGM or playback sound on your headset. This allows key members of the VFX, SFX, Grips and Camera teams to always follow the cue. Bolero can also take the microphone input from Director, 1st AD or any necessary personnel and output it to VOG (Voice of God) or PAVA systems for announcement purposes. There is no need to operate a shout mic if you have an assigned key on your beltpack to trigger this function!

"My entire crew has said many times how much they appreciate Bolero's single-system elegance, the clarity of audio, and the interconnectedness of all our audio streams. These are A-team technicians, but they're mostly first-time Bolero users who are now completely in love with this solution. There is no going back once you have experienced Bolero, the ultimate way of managing a complex team with high-stake demands."

Jeremy Benning, DP





VERSATILE & SCALABLE SYSTEM DEPLOYMENT

There are three network modes available for Bolero systems – each of them dedicated to specific applications. Whether you're looking for an IP-based wireless intercom system to ride atop your backbone network, a flexible and portable standalone solution, or a comprehensive upgrade to your comms & radio system, Bolero is just the right tool for your film production!

Standalone 2110 at a Glance

- Antenna distribution via SMPTE 2110-30 (AES67) IP network
- Multiple fiber-connected switch cascades for long distances
- Analogue 4-wires and GPIOs via optional NSA-002A throwdown box
- Integrated web browser for configuration
- 12 partylines and unlimited point-to-point connections
- 100 beltpacks, 100 antennas

BOLERO STANDALONE 2110

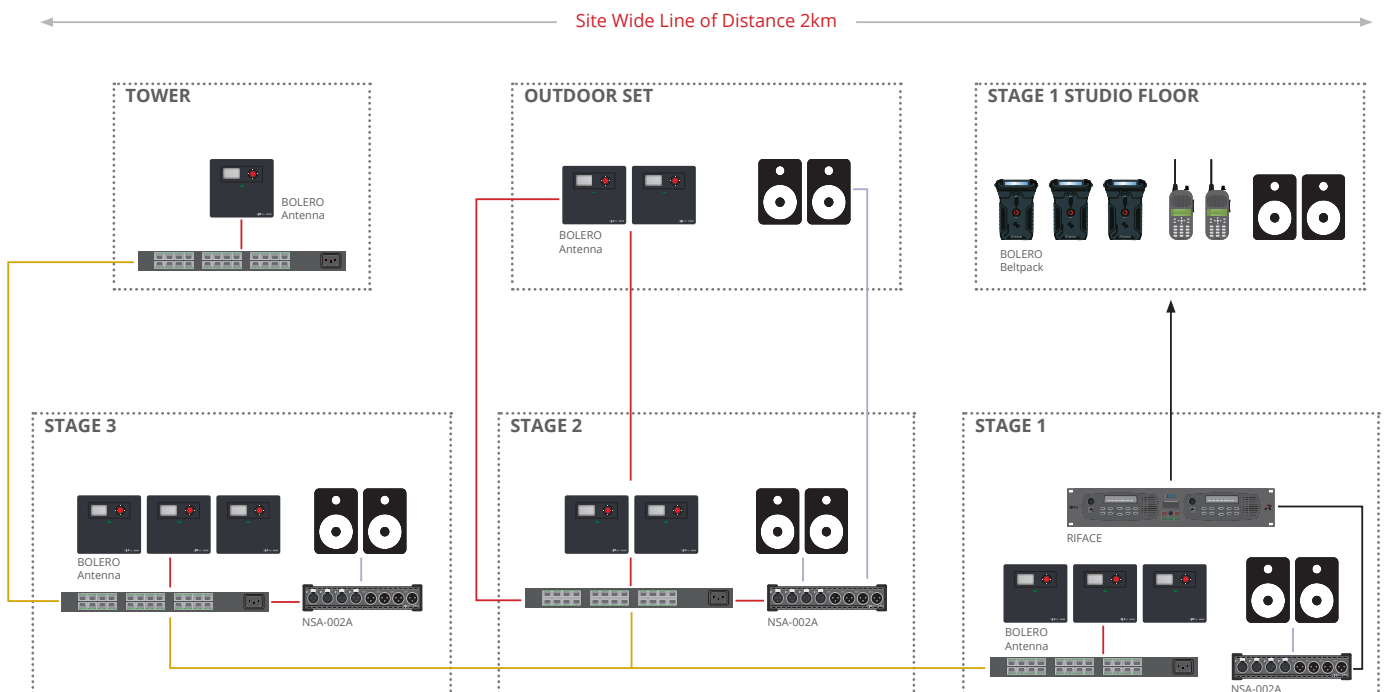
EASILY DEPLOYED WITH DEDICATED BACKBONE OR WITHIN AN EXISTING BACKBONE INFRASTRUCTURE

Bolero Standalone 2110 (AES67) lets users establish IP-based Bolero networks without the need for an Artist matrix. The antennas are distributed over a SMPTE 2110-30 (AES67) IP network and connected via AES67 PoE switches. Audio mixing and control functions are handled by the antennas and 100 beltpacks can be accommodated per Bolero Net. An optional NSA-002A provides analogue interfacing and GPIOs and fiber-connected switches or switch cascades can be used to cover long distances.

Most productions are already doing their shooting with an existing backbone for Program Sound, PAVA/VOG, or Video Assist. Bolero can easily slot into the mix and create a perfect bridge between sound and visual workflow.

The system can be deployed on existing dark fibre infrastructure to create a site-wide coverage network for covering multiple stages or shooting studios. A fixed studios campus with a backbone in place can achieve site-wide wireless coverage at minimal cost and effort.

It is quite common for different departments (grips, DPs or prop), to use their own single channel comms infrastructure. Bolero can also seamlessly integrate all these 3rd party comms into one simple workflow, doing away with redundant conversations.



THE TOUGH MULTI-TALENTED INTERCOM

Six channel keys plus convenient REPLY button to last caller

Full duplex communication in real time, just like a face-to-face conversation
No radio transmission delay, no miscommunication!

Superior audio quality for clear communication, even when wearing a mask or PPE!

Integrated mic and speaker for headset-free operation, Voice of God and daily shooting announcements

Bluetooth headset and phone connection for additional user comfort and hygiene safety

Riedel-exclusive ADR receiver technology overcomes multipath issues

Can be used as a beltpack, a portable desktop keypanel, or a walkie-talkie

Next generation, digital, license free 1.9GHz DECT band

NFC means no registration headaches!
Touch the beltpack to the antenna and GO!

IP-65 environmental sealing

Tough, ergonomic beltpack built to survive

Stereo Line-in for program sound and IEM integration

USB-C charging: Beltpack can be kept as personal device no need to return back to charging station

Bottle opener – just in case!



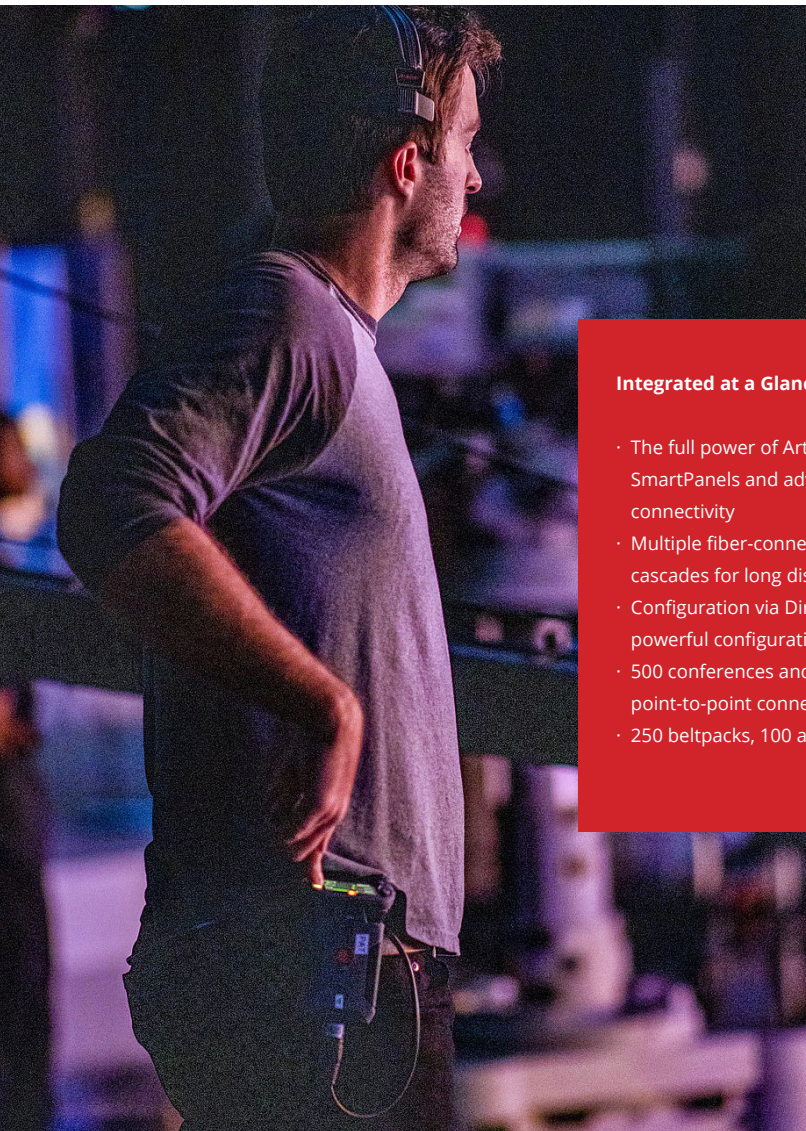
BOLERO STANDALONE LINK

IDEAL SETUP FOR MOBILE SHOOTING, SOCIALLY DISTANCED REHEARSAL, PRE-PRODUCTION & RECCE



Bolero Standalone Link provides plug & play simplicity that is ideal for smaller installations, portable deployments, or cases where IP networks are not required. Up to 100 antennas and 100 belt packs can be quickly and easily set up and configured via a web browser, without the need for an Artist intercom matrix. Antennas may be positioned in a redundant ring or daisy chain topology, or deployed individually using CAT5 cabling. Finally, an NSA-002A stream adapter can be used to interface Bolero with other intercom systems via analog 4-wire and provide GPIOs for convenient external device handling.

Standalone Link mode is ideal for mobile shooting at any location. Full duplex and multiple group channel functionality make a social distanced rehearsal & recce possible, and with Bolero, there is no need to wait to talk or listen during chronographic cast call and rundown. Also, because the Bolero system can be battery powered and is very easy to set up, it can also serve as a handy wireless communication tool during recce, location survey or splinter unit shooting. The plug & play system can be easily installed in a DIT cart and transported together with other production tech.



BOLERO INTEGRATED

ADVANCED INTERCOM ECOSYSTEM

WITH UP TO 250 BELTPACKS PER NET & INTER-UNIT LINKING

Bolero Integrated leverages the powerful Artist ecosystem, including SmartPanels and extensive I/O connectivity, and runs over a standards-based SMPTE 2110-30 (AES67) IP network. Decentralized Bolero antennas connect to AES67-capable switches and to Artist frames equipped with AES67 client cards, providing a fully integrated point-to-point seamless handover intercom ecosystem. With each decentralized antenna and belt pack added, coverage and network robustness are increased.

Integrated at a Glance

- The full power of Artist, including SmartPanels and advanced I/O connectivity
- Multiple fiber-connected switch cascades for long distances
- Configuration via Director, Artist's powerful configuration tool
- 500 conferences and unlimited point-to-point connections
- 250 belt packs, 100 antennas

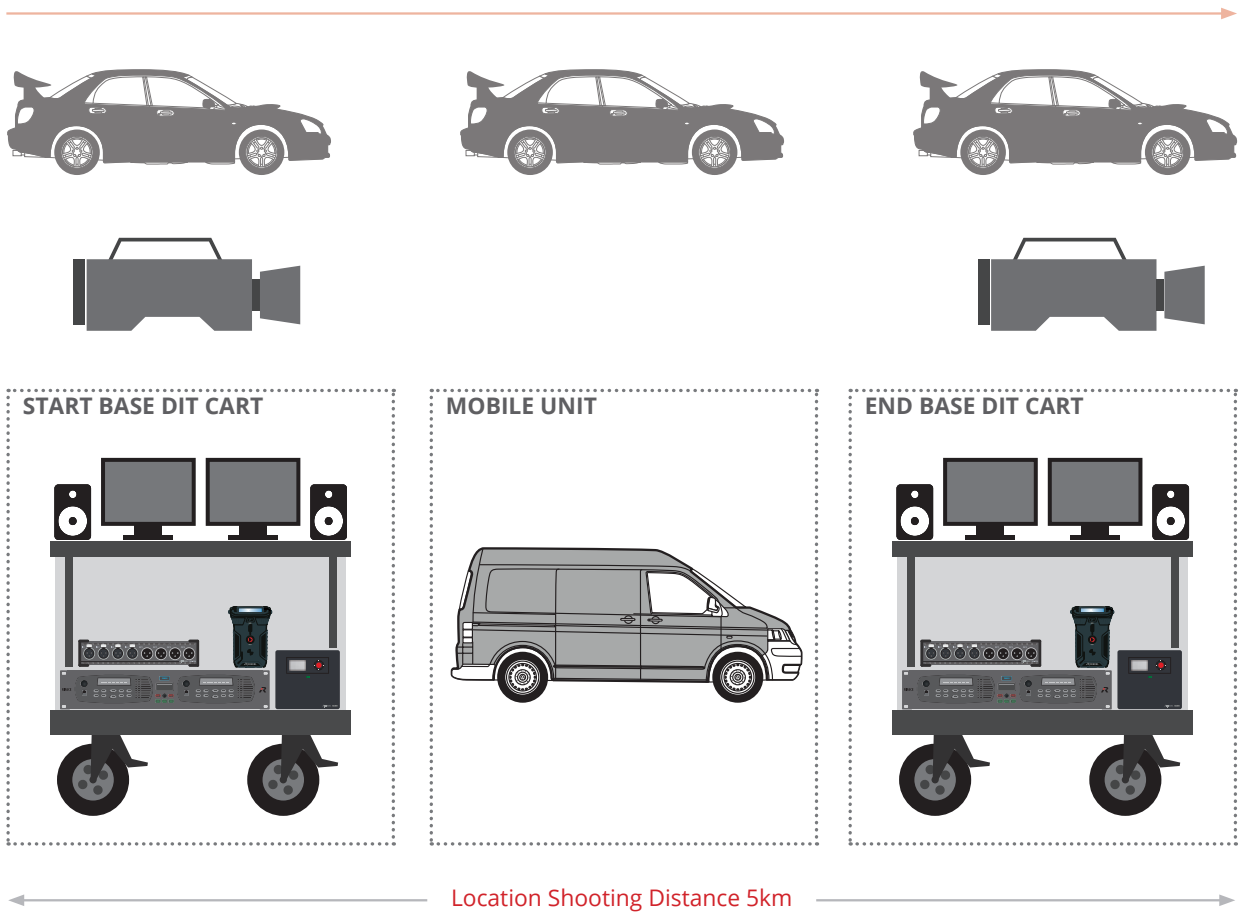
One big plus of this network mode for larger studios and networks

This network mode is especially suited for larger studios and networks, with features like inter-unit linking or trunking: With Riedel Artist matrix systems, multiple Bolero systems located in different countries or locations can be integrated into one unified communication network via secure VPN links.

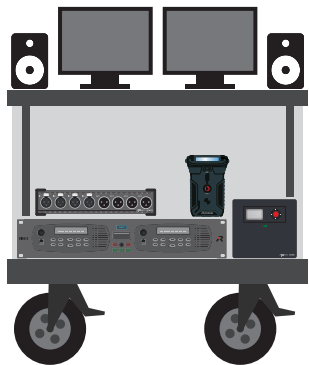


Standalone Link at a Glance

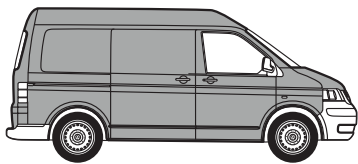
- Daisy chain or redundant ring antenna network
- Plug&Play simplicity
- EPS-1005 PSU powers up to five antennas, up to 300m CAT5 cable between antennas
- Integrated web browser for configuration
- 12 partylines and unlimited point-to-point connections
- 100 belt packs, 100 antennas



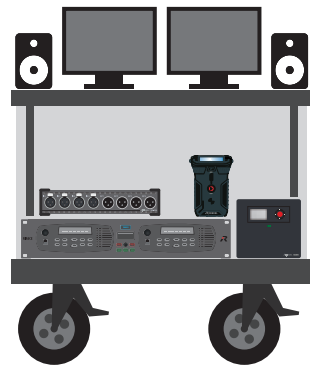
START BASE DIT CART



MOBILE UNIT



END BASE DIT CART



Location Shooting Distance 5km



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