



BOLERO WIRELESS INTERCOM

INCLUDING STANDALONE APPLICATION



Riedel's state of the art, next-generation, wireless intercom system. Full artist-integration or standalone.

As an all-new wireless intercom system capable of supporting 10 beltacks per antenna and up to 100 antennas in a single deployment, Bolero is a true game-changer. Bolero redefines the wireless intercom category with features such as ADR (Advanced DECT Receiver) with multiple-diversity and RF anti-reflection technology for greater RF robustness, complete integration with Riedel's Artist, "Touch&Go" beltack registration, and versatile operation as a wireless beltack, a wireless keypanel, and — in an industry first — a walkie-talkie.



When used with Artist, Bolero runs over a standards-based AES67 IP network with decentralized antennas connected to AES67 switches and to Artist frames equipped with AES67 client cards, providing a fully integrated point-to-point roaming intercom ecosystem. The more decentralized antennas added, the more robust the network becomes.

Bolero's Standalone Application is license-based and comes with several plug-and-play features. First, antennas can be used individually, in a ring structure, or daisy-chained as the situation demands. Also, up to 100 antennas and 100 beltacks can be integrated into a single system. These antennas can be placed up to 300 meters apart and up to five can be powered via the CAT5 network using a new external PSU. The system is quickly and easily configured over the IP connection using a web browser. Finally, a throw-down box can be used to interface the standalone Bolero with other intercom systems via 4-wire.

The Bolero high-clarity voice codec provides both higher speech intelligibility and more efficient use of RF spectrum supporting twice the number of beltacks per antenna for the same audio bandwidth as other DECT-based systems.

The Riedel-exclusive ADR technology, combines a unique receiver design with multiple diversity elements specifically designed to reduce sensitivity to multipath RF reflections, making Bolero useable in challenging RF environments where other systems have great difficulty.

The beltack itself features six buttons for six intercom channels or point to point communications, plus a separate "Reply" button that easily facilitates a reply to the last person that called. Bolero's sunlight readable and dimmable display can be inverted so that it is readable in any orientation. Also, in an industry first, the beltack can be used without a headset like a walkie-talkie radio utilizing an integrated mic and speaker.

Bolero beltacks support Bluetooth 4.1, allowing either a Bluetooth headset or a Smartphone to be connected. When a Smartphone is connected, the beltack can act like a car's "hands free" setup so the user can receive calls on their phone and talk and listen via their beltack headset. Users can also inject phone calls directly into the intercom channels, providing new levels of workflow flexibility.

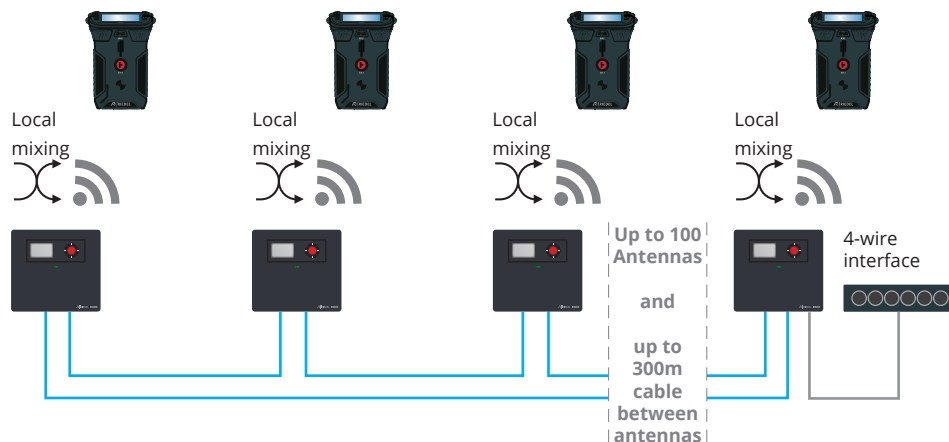
Based on Riedel's extensive rental experience, the beltack uses a combination of premium materials, including high-impact plastics and rubber overmolds making it both tough and comfortable to use in any situation.

THIS

IS STATE-OF-THE-ART
WIRELESS
COMMUNICATION

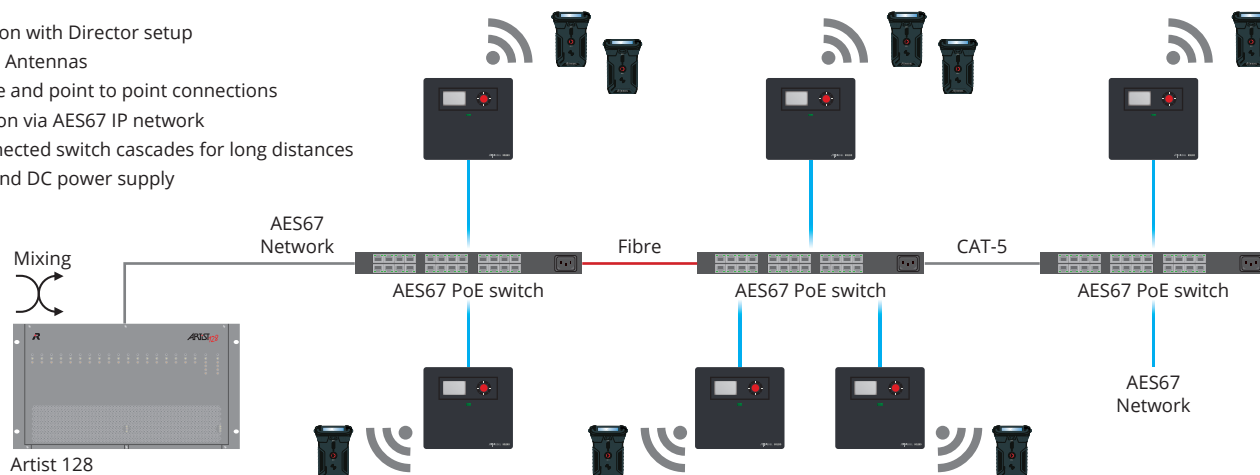
BOLERO Standalone

- Daisy chain or redundant ring antenna network
- Redundant antenna power scheme
- Up to 300m CAT5 cable between Antennas
- 100 beltpacks, 100 Antennas,
- 12 Partylines and unlimited point to point connections
- Advanced DECT with seamless handover
- Simple OTA and NFC registration
- Integrated web browser for setup
- External 4W and GPIO Interface box



BOLERO Integrated

- Full Artist integration with Director setup
- 100 beltpacks, 100 Antennas
- Unlimited Partyline and point to point connections
- Antenna distribution via AES67 IP network
- Multiple fiber connected switch cascades for long distances
- Redundant PoE+ and DC power supply



THE TOUGH MULTI-TALENTED INTERCOM



100 antennas per system = industry-leading
100 beltpack capacity per system

Intelligent use of bandwidth
results in 10 beltpacks per antenna

Standards-based, decentralized,
AES67 IP-networked antennas

Fully re-programmable FPGA
to handle future networks

Integrated mic and speaker
for headset-free operation

Can be used as a beltpack, a portable
desktop keypanel, or Walkie-Talkie

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

Tough, ergonomic, beltpack built to survive

Bottle opener – just in case!

IP-65 environmental sealing

Up to six full-duplex keys plus
convenient REPLY button to last caller

Riedel-exclusive ADR receiver
technology overcomes multipath issues

Modern, high-clarity voice codec increases
beltpack to antenna density

Fully integrated with Artist for point-to-point
comms and ease of use

Next generation, digital, global
license free, 1.9GHz DECT band

Integrated Bluetooth technology for
wireless headsets or phone connection



ANTENNA	Bolero Active Antenna (BL-ANT-1010-19x)
No of beltacks per antenna	10
Radio frequency range	1.880 - 1.930GHz (region dependant)
Antenna radio coverage range	Indoor (structure dependent): ca. 200-400m; Outdoor (free line of sight): ca. 300-500m
Beltack to antenna range	Indoor (structure dependent): ca. 100-200m; Outdoor (free line of sight): ca. 150-250m
Programmable transmission power	Yes
Beltack registration	1 touch NFC & over the air
Network connection	AES67 IP or direct cable connection in standalone mode
Display type	High contrast E-ink display
Power supply	PoE+ (802.3at, type 2, class 4, 15-30W) or 10 to 57 VDC
Power consumption	15W
Mounting points	Mic stand threaded socket 5/8" & 3/8" inside, spigot adapter with wing screw lock, Kensington lock hole, & screw hole for a safety wire mounting
Environmental	IP54 sealing; dust + water splashing from any direction
Operational temperature	-10 to 45 °C
Humidity	0-90%, non-condensing Ta=40 °C
Dimensions	210mm (W) x 66mm (D) x 190mm (H); 8.3" (W) x 2.6" (D) x 7.5" (H)
Weight	1380g
BELTPACK	Bolero 6-key beltack (BL-BPK-1006-19-xx)
Multi-path delay spread protection	Yes, ADR (Advanced DECT receiver)
Audio bandwidth	200 Hz to 7 KHz (-3dB)
Mode of operation	Full-duplex on all routes
Encryption	AES encryption, 256 bit
Line in	3.5mm jack, 20Hz to 20kHz
Talk controls	4 pushbuttons + reply key + 2 walkie-talkie keys (momentary, latching & auto mode)
Volume / Level controls	2x Master or slave + menu navigation
Display	High contrast sunlight readable full colour LCD display
Audio prompts	Out of range, Bluetooth connected / disconnected; Beltack registered / deregistered, Beltack unregistered / not registered, Beltack not connected, Battery low
No. of full-duplex audio paths	6 with individual level control
Handheld operation	Walkie-talkie mode
Vibrate module	Vibrate indicates incoming call or silent call is active
Internal loudspeaker	Freq. <500Hz to >7kHz 80dB/SPL/0.5W/1m, @ <5% THD.
Remote health monitoring	Battery charge status, via web browser
Battery	Lithium ion external removeable battery pack with user removeable clip
USB charging	USB Type C connector for beltack charging and firmware update
Operation time	ca. 17 hours typical
Headset connector	4-pin male XLR, user replaceable
Microphone type	Electret (ca. 5V bias voltage) or dynamic, user selectable or automatic
Side-tone and microphone gain	Individually adjustable for each beltack & via remote control
Bluetooth	v4.2 (hands free profile & HSP headset profile)
Bluetooth phone call mix into intercom	Yes
Lanyard anchor points	Yes
Environmental	IP65 sealing, dust tight + water jet from all angles
Storage temperature	-20 to 50 °C long term; -20 to 60 °C short term
Operational temperature	-10 to 55 °C
Humidity	0-90%, non-condensing Ta=40 °C
Dimensions	(W) 86mm, (D) 48mm, (H) 130mm; (W) 3.4" (D) 1.9" (H) 5.1"
Weight	420g inc. battery and clip
BATTERY CHARGER	5-bay drop in charger (BL-CHG-1005-R)
No of beltack slots	5
Beltack charge time	up to 3 hours
Charge status LEDs	1 per charge slot
Beltack display	% charged, time to full, temperature, battery health
USB type A	for firmware update and charging a Phone or beltack via cable
USB type C	for firmware update and charging a Phone or beltack via cable
Power socket	1x IEC
Power supply	100-230VAC / 50 - 60 Hz
Mounting	2x wall mounts or 19" rack drawer via optional accessory kit



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