



## **BOLERO WIRELESS INTERCOM**



## Riedel's State of the Art, Next-Generation, Fully Artist-Integrated Wireless Intercom System

As an all-new wireless intercom system capable of supporting 10 beltpacks 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" beltpack registration, and versatile operation as a wireless beltpack, a wireless keypad, and — in an industry first — a walkie-talkie.



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.

The Bolero 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 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 beltpack itself features 6 buttons for 6 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 beltpack can be used without a headset like a walkie-talkie radio utilizing an integrated mic and speaker.

Bolero beltpacks support Bluetooth 4.1, allowing either a Bluetooth headset or a Smartphone to be connected. 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.

A person wearing a black short-sleeved shirt and blue jeans is seen from the back, wearing large black headphones. They are operating a professional video camera mounted on a tripod. The camera has a monitor on top and various controls. In the background, another person is seated at a desk, and the setting appears to be a studio or control room with warm lighting.

THIS

IS STATE-OF-THE-ART  
WIRELESS  
COMMUNICATION

# 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

No registration headaches!  
Touch the beltpack to the antenna and GO!

Tough, ergonomic, beltpack built to survive

Bottle opener – just in case!

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

IP-65 environmental sealing



**RIEDEL**

<b>ANTENNA</b>		<b>Bolero Active Antenna (BL-ANT-1010-19G-xx)</b>
No of Beltpacks per Antenna		10
RF Frequency Range		1.880 - 1.930GHz (region dependant)
RF Range		Indoor (structure dependent): ~200-400m Outdoor (Free line of sight): ~300-500m
Programmable Transmission power		Yes
Beltpack Registration		1 touch NFC & over the air
Network Connection		AES67 IP
Display Type		High contrast E-ink display
Power Supply		PoE+ (802.3at, type 2, class 4, 15-30W) or 8 to 57VDC
Power Consumption		13W
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		IP53 sealing; dust + water spray at up to 60° from vertical
Operational Temperature		-10 to 55°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)

<b>BELTPACK</b>		<b>Bolero 6-key beltpack (BL-BPK-1006-19-xx)</b>
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		AES256 Bit encryption
Line in		3.5mm jack, 20Hz to 20kHz
Talk Controls		4 pushbuttons + reply key + 2 handheld 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, Battery full, Battery good, Battery low, Belt pack registered
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, remaining time
Battery		Lithium Ion external removeable battery pack with user removeable clip
USB Charging		USB-2.1 Type C connector for firmware update and beltpack charging
Operation Time		~17 hours typical
Headset Connector		4-pin male XLR, user replaceable
Microphone Type		Electret (~5V bias voltage) or dynamic, user selectable or automatic
Side-tone and microphone gain		Individually adjustable for each Beltpack & via remote control
Bluetooth		v4.1 (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 70°C
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

<b>BATTERY CHARGER</b>		<b>5-bay drop in charger (BL-CHG-1005-R)</b>
No of Beltpack slots		5
Beltpack Charge Time		2 hours
Charge status LEDs		1 per charge slot
Beltpack Display		% charged, time to full, temperature, battery health
USB Type A		USB-2.1, for firmware update and charging a Phone or beltpack via cable
USB Type C		USB Type C for firmware update and charging Phone or beltpack via cable
Power Socket		1x IEC
Power Supply		100-230VAC
Mounting		Stand-alone table mount, 2x wall mounts or 19" rack via optional accessory kit



Riedel Communications GmbH & Co. KG  
Uellendahler Str. 353 | 42109 Wuppertal | Germany  
Phone +49 (0) 202 292-90 | [info@riedel.net](mailto:info@riedel.net) | [www.riedel.net](http://www.riedel.net)