Bolero S-Beltpack

Quick Start Guide

A30

03-303HB01EG

This device complies with Part 15 of the FCC Rules and with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes: (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Changes or modifications made to this equipment not expressly approved by Riedel may void the FCC authorization to operate this equipment.

Radiofrequency radiation exposure Information:
For body worn operation, this equipment has been tested and meets the FCC RF exposure guidelines when used with the Riedel accessories supplied or designated for this product. Use of other accessories may not ensure compliance with FCC RF exposure guidelines.

Este produto está homologado pela Anatel, de acordo com os procedimentos regulamentados pela Resolução n°. 242/2000 e atende aos requisitos técnicos aplicados, incluindo os limites de exposição da Taxa de Absorção Específica referente a campos elétricos, magnéticos e eletromagnéticos de radiofreqüência de acordo com as Resoluções n°. 303/2002 e 533/2009.

This device is granted pursuant to the Japanese Radio Law (電波法) and the Japanese Telecommunications Business Law (電気通信事業法). This device should not be modified (otherwise the granted designation number will become invalid).

Taiwan NCC Warning Statement
交通部電信總局低功率電波輻射性電機管理辦法 (930322)
根據交通部低功率管理辦法規定第十二條. 經型式認證合格之低功率射頻電機.
非經許可, 公司、商號或使用者均不得擅自變更頻率、加大功率或變更原設計之特性及功能。
第十四條. 低功率射頻電機之使用不得影響飛航安全及干擾合法通信;經發現有干擾現象時,
立即停用, 並改善至無干擾時方得繼續使用。前項合法通信, 指依電信法規定作業之無線電
通信。低功率射頻電機須忍受合法通信或工業、科學及醫療用電波輻射性電機設備之干擾。

The device conforms to the following EU guidelines as attested by the CE mark.

- EMV (EMC) 2014/30/EU
- NSR (LVD) 2014/35/EU
- RTTE (RED) 2014/53/EU

Standards

- EN 300 328 V1.9.1 / ETSI EN 300 328 V2.0.20
- EN 300 330 V1.8.1 / ETSI EN 300 330 V2.1.0
- EN 301 406 V2.2.1
- EN 301 489-1/-3/-6/-17, EN 55022, EN 55024
- IEC/EN 60950-1

YFJBPK100419

Industry Canada 8706A-BPK100419

Australia

Any device that connects to the data ports must comply with the clause 4.7 of AS/NZS 60950.1

Singapore

Complies with IMDA Standards DB105184

Management System
ISO 9001:2015

www.tuv.com
ID 9105041375

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1 Information

Service

- All service has to be undertaken ONLY by qualified service personnel.
- Do not plug in, turn on or attempt to operate an obviously damaged device.
- Never attempt to modify the equipment components for any reason.

Caution	
	All adjustments have been done at the factory before the shipment of the devices. **No maintenance is required and no user serviceable parts are inside the module.**

Battery Safety

The Bolero-S-Beltpacks are operated with the following battery type: Lithium-Ion, 3.6V, 2.4Ah, 8.6Wh, 1ICP7/39/65, with integrated electronics. For best performance charge the battery fully before initial use or reusing it after being stored for a long period. In order to ensure air transport safety, the Bolero-S-Beltpack is tested according to UN 38.3 – Transport of dangerous goods.

Warning	
	There is a risk of fire and burns if the battery pack is handled improperly.
	• **Do not short-circuit.** • **Do not dismantle, open, crush, heat above 60°C (140°F) or incinerate.** • **Recycle or Dispose of property.** • **Charge before initial use.** • **Use the specified Riedel Bolero Charger only or charge the Bolero-S-Beltpack.** • **Do not charge using any other equipment.** • **Do not connect the contacts to any other equipment.** Further recommendations: • Avoid storage in direct sunlight. • Do not subject Bolero-S-Beltpacks to mechanical shock. • In the event of a cell leaking, do not allow the liquid to come into contact with the skin or eyes. If contact has been made, wash the affected area with copious amounts of water and seek medical advice. • Keep Bolero-S-Beltpacks out of the reach of children. • Keep Bolero-S-Beltpacks clean and dry. • Wipe the terminals with a clean dry cloth if they become dirty. • Use the Bolero-S-Beltpacks only in the application for which it was intended.

Environment

If the devices have been exposed to a cold environment and transferred to a warm environment, condensation may form inside the housing. Wait at least 2 hours before applying any power to the devices.

Disposal

Disposal of old Electrical & Electric Equipment (Applicable throughout the European Union and other European countries with separate collection programs)

	This symbol, found on your product or on its packaging, indicates that this product should not be treated as household waste when you wish to dispose of it. Instead, it should be handed over to an applicable collection point for the recycling of electrical and electronic equipment. By ensuring this product is disposed of correctly, you will help prevent potential negative consequences to the environment and human health, which could otherwise be caused by inappropriate disposal of this product. The recycling of materials will help to conserve natural resources. For more detailed information about the recycling of this product please contact your local city office.

2 Bolero-S-Beltpack

Thank you for choosing a Riedel product.

This document provides mechanical and electrical information about the Bolero S-Beltpack.

i	More information about Beltpack, Antenna and Charger can be found in the Bolero User Manual on the Riedel Website (www.riedel.net). You need to login to access the download area (Services > Downloads). For further information, please contact your local distributor or the Riedel headquarters in Wuppertal.

The Bolero Wireless S-Beltpack is a very light and compact, digital station with six individually configurable keys for intercom, IFB or GPO triggering use. Two of the keys are able to allow volume-control for each key. Pushing the Talk key toggles talk on/off with momentary or latching operation as well as an Auto mode that combines both functions in one. Activation is indicated by an LED. A vibration motor are able to indicate an incoming call or warnings.
With the new "Touch&Go" beltpack registration a quick and user friendly registration is implemented. Just touch the Beltpack to the antenna and GO.
The Bolero Wireless S-Beltpack has a 6-pin Hirose HR10 socket for headset and a USB port for firmware updates. A fully charged Bolero-S-Beltpack allows more than 7 hours of operation. The rugged housing houses the internal antennas.

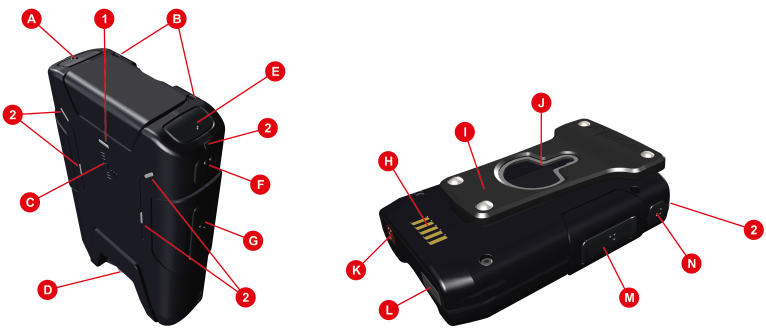

Figure 1: Bolero-S-Beltpack (front/top, rear/bottom)

Operating Elements

A	Key 2 (top)
B	Lanyard or safety cord mounting holes
C	NFC contact point
D	Headset connector (Hirose)
E	Key 1 (top)
F	Key 3 (side)
G	Key 5 (side)
H	Charging contacts
I	Beltclip (optional)
J	Screw head mount and bottle opener
K	Power button
L	USB Type-C (underneath a rubber cover)
M	Key 6 (side)
N	Key 4 (side)

Status LEDs

1	**Status**	***off***	Beltpack is turned off
		green	• Beltpack ready (System ok) • Beltpack off, USB charging, battery full
		green blinking	USB charging, battery level >90%
		red	• booting • Beltpack not registered/not connected • low battery level (<15%) • outside the Antenna coverage area
		red blinking	critical battery level (<8%)
		red fast blinking	critical error (no function)
		orange	Mic unmuted, Sidetone on
		orange blinking	USB charging, battery level <90%
		orange fast blinking	Locate function active
		orange-red blinking	• Beltpack not registered, USB charging, battery level <90% • Beltpack registered, Mic unmuted, Sidetone on, critical battery level (<8%)
		green-red blinking	Beltpack not registered, USB charging, battery level >90%
2	**Call**	***off***	no active call
		green	incoming call
		green blinking	volume changing
		red blinking	Beltpack not registered/connected
		orange	outgoing call
		orange blinking	incoming indication (beep)

3 StartUp

Press the '**Power**' key firmly to power-up the device.

If the Beltpack is already registered to a Net, the Beltpack will try to establish a connection to it.
An unregistered Beltpack shows a flashing red status LED.

4 Key Functions

Users may talk individually or at the same time to all channels.
Pushing one of the four keys allows talking in the respective channel.
The Call LED is indicating if one channel is active at least.
The keys are latching by default. Push again the key to deactivate the respective channel.

i	Latching / PTT are set up in Director. For a new configuration in Director, all four keys are PTT.

5 Registration

Before a Beltpack can connect to a Bolero-Net, it has to be registered to it. Registration means, that the Bolero-Net knows the Beltpack, the Beltpack knows the Bolero-Net and an encryption key is generated to be used by both sides.

There are different ways to register a Beltpack to a Bolero Net:

Antenna NFC	Allows registering a Beltpack at an already registered Antenna via NFC (**N**ear **F**ield **C**ommunication).
Beltpack NFC	Allows registering a Bolero-S-Beltpack at an already registered standard Beltpack via NFC.

i	Up to 10 Nets can be registered in a Beltpack. If the Beltpack needs to be registered in another Net, a pre-registered Net must be deleted.

5.1 Antenna NFC

This registration mode allows registering a Beltpack at an already registered Antenna via NFC.
Following steps are necessary to register a Beltpack via Antenna-NFC contact point ( ) to a Bolero Net:

- At first the '**Registration Method (NFC)**' must be activated. This can be done in two ways:
  a) Via the Antennas Web-Interface
  (see chapter 'Bolero Antenna > Features in Detail > Registration' in the Bolero User Manual).
  b) Via another Beltpack that is already registered in the Net:
  Menu '**Admin** > **Registration Mode** > **Antenna NFC** > **On**'.

- The Beltpacks to be registered have to be turned on, no other special setting or user intervention is required.
- Just hold the NFC contact point of the Beltpacks close to the NFC contact point of any Antenna. The Beltpacks will be registered to the same net that the antenna belongs to.
- After registration, the Beltpacks will immediately connect to the Bolero net.

i	• This setting is system wide and stays active until disabled or the registration timeout runs out (timeout is the same as for OTA registration). • All Antenna-NFCs are switched to registration mode. • The Beltpack-NFCs of connected Beltpacks are NOT switched to registration mode.

5.2 Beltpack NFC

This registration mode allows registering a BoleroS-Beltpack at an already registered standard Beltpack via NFC.
Following steps are necessary to register a Beltpack via Beltpack-NFC contact point ( ) to a Bolero Net:

At first the Registration Method '**Local Beltpack NFC**' must be activated at the already registered standard Beltpack ('Master'-Beltpack):
- Push the 'Master'-Beltpack's Menu key for >3 seconds (long key press).
- Navigate to the '**Admin**' menu.
- Enter the '**Admin PIN**' of the net.
- Select '**Registration Mode**' > '**Local Beltpack NFC**'.

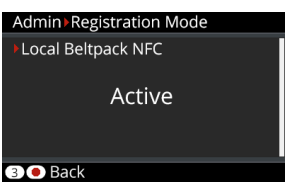

Figure 2: Registration Mode 'Local Beltpack NFC'

- The standard Bolero and Bolero-S-Beltpacks to be registered have to be turned on, no other special setting or user intervention is required.
- Just hold the NFC contact point of other Beltpacks close to the NFC contact point of the 'Master'-Beltpack. These Beltpacks will be registered to the same net that the 'Master'-Beltpack belongs to.
- After registration, the Beltpacks will immediately connect to the Bolero net.

i	• The 'Master'-Beltpack stays in the registration mode until the user leaves the menu or the 'Master'-Beltpack is disconnected (there is no timeout).

6 Technical Specifications

Beltpack Product Code	BL-BPK-1004-19	
Multi-path delay spread protection	Yes, ADR (Advanced DECT Receiver)	
Audio Bandwidth	200 Hz ... 7 KHz (-3dB)	
Mode of Operation	Full-duplex on all routes	
Encryption	AES256 Bit encryption	
Line In	No	
Talk Controls	4x push buttons (momentary, latching & auto mode) + 2 volume keys	
Volume / Level Controls	Volume keys programmable (Master, individual)	
Display	No	
Audio prompts	Out of range, Battery full, Battery good, Battery low, Beltpack registered	
No. of Full-Duplex Audio Paths	4 with individual level control	
Vibrate Module	Vibrate indicates incoming call or silent call is active	
Remote Health Monitoring	Remote via antenna and computer (Battery remaining time)	
Battery	Lithium Ion internal battery	
USB Connection	USB-2.0 Type C connector for firmware update and Beltpack charging	
Operation Time	~7 hours typical	
Headset Connector	6-pin male Hirose HR10	
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	No	
Beltclip	Yes, user removable clip (optional)	
Lanyard anchor points	Yes	
Environmental	IP65 sealing, dust tight + water jet from all angles	
Storage Temperature	-20° ... +70°C	
Operational Temperature	-10° ... +55°C	
Humidity	0 % ... 90 % rel. (non-condensing), Ta=40°C	
Dimensions	Width	75.5 mm / 2.97"
	Height	118 mm / 4.64"
	Depth	26.5 mm / 1.04"
Weight	165 g / 5.82 oz (without clip)	

If you have any further questions, we offer comprehensive customer service options for this product including:

- Telephone Service
- Email Service
- Fax Service
- Configuration Support
- Trainings
- Repair

Your primary point of contact for any service issues is your local dealer.
In addition, Riedel Customer Service in Wuppertal, Germany is also available to assist you.

Telephone: +49 (0) 202 292 9400
(Monday - Friday, 8am – 5pm, Central European Time)

Fax: +49 (0) 202 292 9419

Or use the contact form on our website:
www.riedel.net > Company > Contact > Wuppertal (Headquarters)

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