

BlueNAC-3000 RADIOLINK PORTABLE



BlueNAC-3000RL

The device BlueNAC-3000 RadioLink (from now abbreviated BN-3000RL) it is a device based on Bluetooth® technology that allows wireless use of one radio (walkie-talkie or transceiver) in combination with two headsets or motorbike Intercoms BlueNAC-3000®.

With this device you'll have a complete wireless intercom system, connectable to almost all market radios.

In addition it is possible to connect a GPS or audible warning devices with the auxiliary audio connection, expanding its possibilities still more.

Thanks a lot for your confidence in our company and we hoped that enjoy long time the benefits that this product offers.

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PROXECTO COFINANCIADO



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"O FSE inviste no teu futuro"



SECRETARÍA GENERAL DE
INDUSTRIA
DIRECCIÓN GENERAL DE
POLÍTICA DE LA PYME



"Una manera de hacer Europa"

MAIN FEATURES OF BLUENAC-3000RL

- Bluetooth® version 2.1
- Enable wireless communication between two headsets BlueNAC-3000 and a walkie-talkie or transceiver.
- It's possible connect audio sources like audible warning device or GPS with optional aux audio connection.
- Transmission Control Priorities PILOTO-COPILOTO
- Voice messages to the headsets to make easy the control and operate the MENU.
- Power supply requirement from 12V to 24V.
- Portable version: include lithium ion battery with a range of up to 8 hours talking time and 150 hours in standby mode.
- Software upgradeable via USB port.




USE OF DEVICE

Description and use front panel buttons

There are two types of pulsation for the keys operation: normal short press or long press (≈ 3 seconds)

NORMAL Operation Mode



In normal operation mode, the buttons between the two Leds, (+ and -) are used to vary the way in which Pilot and Copilot used the transmission (see TRANSMISSION MODES).



1. Key : Short press, PILOT Private Transmission mode.
2. Key : Short press, PILOT Priority Transmission mode.
Long press, Free Transmission mode.
3. USB connection to PC and battery charge.
4. Key On/Off : Long press (≈ 3 seg), ON/OFF.
Long press (≈ 8 seg), Pairing Mode.

* This key is  not used in BN-3000RL portable.



SETUP MENU Mode

By pressing simultaneously the   for 3 seconds, you access the Settings menu. If the headsets are linked and audio connection established, then listen on headphones the first menu option with a synthesized voice saying "SOUNDS VOLUME".

Pressing the On/Off Key (4) advances to the next menu item. Use the key  or  to increase or decrease the level in each option.

- 0 Click: Volume of synthesized sounds and phrases. Hear "SOUNDS VOLUMEN" in the headsets.
- 1 Click: Volume of the auxiliary input (music or GPS). Hear "AUXILIARY VOLUMEN"
- 2 Click: Volume of the radio. Hear "RADIO VOLUMEN"
- 3 Click: Gain the radio microphone. Hear "RADIO MICROPHONE GAIN"

After 5 seconds without any action, automatically exits of MENU mode.

LEDs Indications

At power on, the LEDs indicate the configuration of the first 5 seconds. After this time show the current status of the link (and the battery in the portable version).

TABLA A		
During power on		
Blue Led	Blink	Pilot priority transmission mode
Red Led	Blink	Private transmission mode (Copilot excluded)
Blue Led & Red Led	Blink alternately	Free transmission mode
After 5 seconds shows the status of the device		
Blue Led	Fixed Every second Flash Double Flash per second	Does not bind any device Linked with a device Established voice connection
Red Led	Flicker Fixed	Low battery Dead battery
Blue Led & Red Led	Flash simultaneously Flash alternately	Menu Mode Pairing Mode / Sync

OPERATION MODE			
ON/OFF	VOLUME UP	VOLUME DWN	Observations
Long press Switch on	By clicking one time PILOT Priority transmission You heard through the headphones "Priority Transmission"	By clicking one time Private Transmission Mode (Exclude the co-pilot of transmission) You heard through the headphones " Private Transmission "	During power on the LEDs show the selected transmission mode according to Table A
Long press Switch Off	Long press activates free transmission mode You heard through the headphones "Free Transmission"		

NOTE: If you only use a headset or motorbike-intercom BlueNAC-3000 in combination with BN-3000RL, and for some reason it is setup as Co-pilot, you should bear in mind that radio transmission may not operate properly, unless you configure the BN-3000RL to free transmission mode.

MENU MODE			
ON/OFF	VOLUME UP	VOLUME DWN	Observations
Select the menu item according to the number of keystrokes	By pressing UP & DWN simultaneously for 3 seconds, to enter in MENU mode		Both LEDs flash simultaneously. After 5 seconds without pressing any keys, it returns to normal operation
0 click (Just to enter in MENU mode)	Sounds Volume Increase	Sounds Volume Decrease	Sounds Volume
1 clicks	Radio Volume Increase	Radio Volume Decrease	Radio Volume

2 clicks	Increase radio microphone gain	Decrease radio microphone gain	Radio microphone gain
3 clicks	Volume Increase Auxiliary Input	Volume Decrease Auxiliary Input	Auxiliary Input Volume

PAIRING WITH BlueNAC-3000 HEADSETS

To pairing one or two headsets with BN-3000RL, follow these steps:

- Make sure the headsets are set to Pilot and Co-pilot respectively.
- Turn off all devices to match, both headsets BlueNAC-3000 and BN-3000RL device.
- Turn on the headsets BlueNAC-3000 holding the power on key for at least 8 seconds, until Leds blinks alternately.
- Immediately follow the same procedure on BN-3000RL device by pressing power on 8 seconds.

After a maximum time of 2 minutes, all devices are matched and will be restarted normally. This procedure does not need do anymore. If for some reason are not synchronized correctly the first time, repeat the procedure again.

RADIO CONNECTION

BN-3000RL uses a professional 9 pins connector which allows connection to the vast majority of radios from leading brands, such as ICOM, Alan/Midland, Motorola, Yaesu/Vertex, Kenwood, Cobra, Alinco, ADI, etc., for which we have the corresponding connecting cables. With this portable version you only have to change the cable for different radios.



Gain Settings to radio microphone (TX)

Note that each radio or transceiver requires a specific signal on the microphone to transmit properly. There is no pattern or a particular standard in the market, so you have to make some initial adjustments in the settings menu of the BN-3000RL depending on the model of your radio and the type of microphone you use.

The most common are:

- The standard FM radios or PMR/LPD usually use a high impedance microphone called "electret". These microphones deliver a great sign for what the menu setting on the "Radio Microphone Gain" should be rather the minimum of the scale.
- Air Band AM radios typically use a low impedance dynamic microphone, so the menu setting on the "Radio Microphone Gain" should be between half and full scale.

The ideal setting can be performed using two radios, one to confirm the receipt and one connected to the BN-3000RL, performing the following steps:

- Turn on both radios and turn the volume pot halfway.
- Check the radio volume level to be connected to BN-3000RL, saying the numbers from "1" to "5" while transmit, listening the volume level received in other radio.
- Connect the radio to the BN-3000RL and take a BlueNAC-3000 headset but do not put on your head to avoid isolate the environment.
- Active the transmission by pressing the PTT key on the headset and speak in front of the microphone, counting again from "1" to "5".
- If the volume you heard on the other radio is similar to the initial test, this adjust is finished and you must proceed to the reception volume level adjustment, explained below.

- If, however the volume is too low or too high, you must access to SETUP MENU and make the appropriate changes. When you obtain the ideal setting, turn off the BN-3000RL so that the values are recorded in its memory.

Note: with a very low gain, those who receive your communication, probably will not understand you well because the signal is too poor, while if the gain is too high, your voice will be distorted.

Volume adjustments in radio reception (RX)

To listen to the radio at a volume similar to the intercom, you should perform the following procedure:

- Turn on the radio and turn the volume pot between one third and a half.
- Transmit from other radio and check the volume in the headset BlueNAC-3000.
- If the volume is too high or low, go into the SETUP MENU of the BN-3000RL and change the level in "RADIO VOLUME" option.
- When you get the right level approximately, you can make a fine adjust by means the volume of the radio.

SOFTWARE UPDATING AND USB SETTINGS

You can download the update software and firmware files for free. To connect the device to the computer you require a standard mini-USB cable, a free USB port and internet connection. You can found the software, updates and instructions on our website: <http://www.bluenac3000.es>

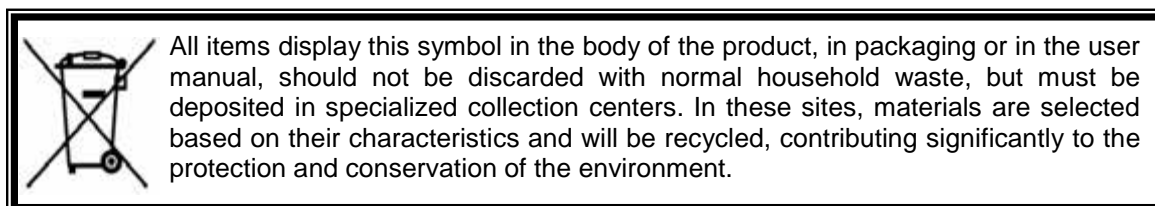
GUARANTEE

1. The duration the guarantee is 24 months from the date of acquisition.
2. To make use of the guarantee is essential send us a photocopy of the purchase invoice referring to damaged equipment.
3. The guarantee repairs should be made in NAC-INTERCOM.
4. The guarantee covers the entire device except batteries or external peripherals to the product.
5. The damage that the device could suffer during transportation and the costs thereof are excluded from the guarantee.
6. Not be claimed damages or compensation for the downtime, its costs, or direct or consequential damages that might cause such inactivity.
7. The guarantee is void if there is one of the following circumstances: installation and/or faulty connections, use in adverse conditions, damage caused by bad use or handling, damage or faults in batteries.
8. The performance of statutory guarantee, against the seller, are in addition to this guarantee and are not restricted by it.

SAFETY TIPS

- Keep away from moisture and dust.
- Clean with soapy water, never with abrasives or solvents.
- Do not store in areas over 50°C or directly under the heat source. It can cause a drop in performance and reduce battery life.
- Do not let it fall from considerable heights.
- Do not manipulate the controls or plug connections with wet hands and remember to avoid contact with splashes of water or aggressive liquids.
- Avoid that is near magnetic fields.
- Do not manipulate/modify the product.
- Keep away from microwave or wireless networks. May cause interference.
- Do not expose the headset to considerable fluctuations in temperature.
- Do not subject it to shocks and excessive vibrations.

TECHNICAL SPECIFICATIONS BlueNAC-3000RL	
Bluetooth® Version	2.1
Radiofrequency	2,41Ghz-2,48Ghz
Profiles	Special RadioLink
Chip Manufacturer and Model	CSR BC03MM
Output Power	Class II (4 mW max.)
Radio range	<15m
Power supply	12V to 24V (Panel version)
Measures (Length x height x width)	670x500x210 mm. (Panel version)
Weight	40g
Storage Temperature	-20°C->+45°C (max. 85% relative humidity)
Operating Temperature	+3°C->+35°C (max. 85% relative humidity)
Battery Type/Capacity	Li-Ion/500mAh
Battery charge time	2-3h
Talk time	8h
Battery time at rest "Standby"	150h
USB CHARGER	GEB-05EU-0550
Input Voltage	180-250V~
Frequency	50/60 Hz
Rated Current	0,15 A
Voltage	5 V
Current Output	500 mA



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