



A^{RF37} Wireless Audio Conference System



User Guide

About this Document

This guide describes the ARF37 devices, their options and accessories. It explains how to set the features to enable a conference communication between several devices.

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Table of Contents

Table of Contents	1
Declaration of Conformity	2
Introducing the A^{RF37}	3
Product Description	3
Accessories	4
Getting Started	6
Keyboard Description	6
Function Usage	7
Using the Screen and Keyboard	7
Setting a Conference	9
Assigning a Number to a Device	9
Changing the intensity of the noise filter	10
Moving to a substitution channel	10
Enabling Devices to Enter a Conference	11
Using the Devices	13
Using the Listener Mode	13
Validating or Unvalidating Other Devices Listening	13
Setting the Volume	14
Locking or Unlocking the Keypad	14
Reloading the Battery	15
Troubleshooting	16

Declaration of Conformity



Manufacturer's name : **ADEUNIS R.F.**
 Manufacturer's address : Parc Technologique PRE ROUX IV
 283 rue Louis NEEL
 38920 CROLLES - FRANCE

declares that the product if used and installed according to the user guide available on our web site www.adeunis-rf.com

Product Name : **ARF37**
 Product Number(s) : **ARF7483A / ARF7484A / ARF7483B / ARF7484B**
 Product options :
 complies with the RTTE Directive 99/5/EC :

EMC : conformity is proven by compliance to the harmonized standard EN 301-489

Safety : conformity to the standard EN 60950-1/2001

Radio : conformity is proven by compliance to harmonized standard EN 300-220 covering essential radio requirements of the RTTE directive.

Exposure to radio frequency signals : regarding the 1999/519/EC recommendation, when using the device, keep the product at least 3,2 cm from your body.

Notes :
 - Conformity has been evaluated according to the procedure described in Annex III of the RTTE directive.
 - Receiver class (if applicable): 3.

Crolles, November 6th, 2007
 VINCENT Hervé / Quality manager

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Index **Products**

Paragraph **Long range audio transmissions**

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Introducing the A^{RF37}

The A^{RF37} allows you to establish a conference communication, using up to 6 wireless devices in a team.

Having set the conference parameters, you can use the devices, speak and hear the other users.

Product Description

The A^{RF37} devices are delivered with the following options :



Audio conference devices with a 3.7 V **1000 mA/h** battery
 Dimensions : 120 mm x 60 mm x 25 mm
 Weight : 150 g
 Battery reload : 2 hours
 Battery autonomy : 8 hours

Ref. with a standard jack connector

ARF7483A

Ref. with a waterproof locking connector

ARF7484A



Audio conference devices with a 3.7 V **2000 mA/h** battery
 Dimensions : 120mm x 60mm x 30mm
 Weight : 170 g
 Battery reload : 3 hours
 Battery autonomy : 16 hours

Ref. with a standard jack connector

ARF7483B

Ref. with a waterproof locking connector

ARF7484B

Accessories

To complete the communication system, the following accessories are available :



Standard headset kit with a Jack connector

Ref. 7382-A – MØ5



Standard headset kit with waterproof locking connector

Ref. 7382-A – MØ4



Customized headset kit with waterproof locking connector

Ref. 7382-A – MØ8



Belt

Ref. CEINTURE 110



Harness

Ref. 7382-A - MØ9



Armband

Ref. 206105



3.7 V 1000 mA/h battery

Ref. EASYPACK 1000



3.7 V 2000 mA/h battery

Ref. EASYPACK 2000



5-slot battery rack for reloading the batteries

Ref. ARF7418A



Clip

Ref. CL1-N



Case

Ref. NOVA 4 AW



Push-to-talk button (only available for locking connector)

Ref. 7382-A - M1Ø

Getting Started

Keyboard Description

The keyboard allows you to select the functions and their options. This is a capacitive keyboard. It will be more efficient when pressing the button on the sign.

The available keys are as follows :

Keys	Description
	Power On/Off Key active during parameters setting
	Menu Access to the device settings menu
	Option selection In the device settings menu, the buttons allow you to adjust the parameters. When you are not in the device settings menu, the buttons give you direct access to volume settings.
OK	Validation Allows you to validate the selected option or to exit the device settings menu.

NOTE

Each time you press a button, the device displays a * and produces a "beep".

Function Usage

To use a function, make sure you press the corresponding key for 2 seconds.
To turn the device on, press the ON/OFF button for 2 seconds.
To turn the device off, press the ON/OFF button for 2 seconds.

Using the Screen and Keyboard

Each device is composed of a screen which displays information and a keyboard for entering the different settings.

Screen Description

When powered on, the screen provides you with information on :

- the device online status,
- the battery level,
- the device settings.

The screen indicators are as follows :

Indicators	Description
	<p>System status</p> <p> indicates the device in the system. The other numbers indicate the devices online in the conference.</p> <p>A dash over the number indicates that the listening of this device is validated.</p>
	<p>Radio Channel (Chan. setting)</p> <p>Indicates the radio channel.</p>
	<p>Product identifier (Role setting)</p> <p>Indicates the device number in the conference or "system listener".</p>
	<p>Volume settings</p> <p>Indicates the volume level, with 9 levels.</p>
	<p>Battery indicator</p> <p>Provides information on the battery level, with 5 levels:</p> <ul style="list-style-type: none"> • Full capacity. • 75% capacity. • Less than 50% capacity, reload is recommended. • Less than 25% capacity, reload is required. • Minimum capacity, the device cannot work.
	<p>Keypad Locked / Unlocked</p> <p>Except the On/Off function</p>
	<p>Indicates whether you are using an enhanced filter (F+) or a regular one (F)</p>

Setting a Conference

To set a conference, you have to perform the following operations :

1. Assign a number to each device that will take part in the conference.
2. Define the radio channel used for the communication.
3. Enable the devices to enter the communication.

All the parameters, including the volume settings, are stored and remain the same if the device is switched off or the battery removed.

Assigning a Number to a Device

To set a communication, you must first identify all the devices that will take part in the conference and assign a number to each of them.

There may be between 2 to 6 devices in a conference, with numbers 01 to 06.

Each device has a unique number that identifies it. One device must be set with number 01.

NOTE

Avoid assigning the same identifier to several devices as this will prevent the communication from being set.

Procedure

1. From the main screen, press  for two seconds to access the **Role setting** menu.
2. In **Role setting**, select the identifier number using + or -.

3. Press **OK** to validate your choice.
4. Press  to select another menu or **OK** to exit the **Device setting** menu.

Changing the intensity of the noise filter

Depending on the noise level in the place where the products will be used, you can choose an enhanced filter (F+) or a regular one (F).

Procedure

1. From the main screen, press  for 2 seconds to access the **Device setting** menu
2. Press  again to access the **Filter setting** menu.
3. In the **Filter setting** menu, change the filter's intensity using **+** or **-**.
4. Press **OK** to validate your choice
5. Press  to select another menu or **OK** to exit the **Device setting** menu.

Moving to a substitution channel

To communicate, the devices must be tuned into the same radio channel which is assigned to a specific frequency. When delivered, all the devices are already tuned on channel C1 and must be used on this channel. If, in a specific area, you have some troubles due to jamming devices which are working on the same frequency, you can use one of the 3 substitution channels C2, C3 or C4.

Procedure

1. From the main screen, press  for 2 seconds to access the **Device setting** menu.
2. Press  twice to access the **Chan. setting** menu.
3. In the **Chan. setting** menu, select the channel using + or -.
4. Press **OK** to validate your choice.
5. Press  to select another menu or **OK** to exit the **Device setting** menu.

NOTE

When you stop using them, devices have to be moved back to radio channel C1

Enabling Devices to Enter a Conference

To enable communication, devices must memorize an encryption key provided by device 01. This operation is necessary in the following conditions:

- To enable all the devices to enter a conference.
- To add a device to a conference already set.

IMPORTANT

The devices cannot communicate if this procedure, also known as the encryption procedure, is not performed.

Procedure

Make sure that the following requirements are met before starting the procedure :

- All the devices must use the same channel.
- Only one device has the identifier 01.

Operations on device 01

1. On all the devices, press  for 2 seconds to access the **Device setting** menu.
2. On all the devices, press  3 times to access the encryption.
3. On all the devices, press **OK** to proceed

5. When the encryption procedure has been validated on all other devices, press **OK** to end the procedure.

Operations on the other devices

4. When a device has received the encryption key from device 01, it indicates encryption ****DONE****. Press **OK** to validate.

NOTE

On device 01 : To leave without saving. Press 

On the other devices : To leave without saving if the device does not return ****DONE****, press  or. 

Using the Devices

Using the Listener Mode

You can use a device as a listener only. In the listener mode, the device can only receive and hear other devices in the conference. It does not enable you to speak.

IMPORTANT

The listener can only work if you have proceeded to the encryption. The listener only works if at least 2 devices (01 or 04 and another) are in the conference.

Procedure

1. Press  for 2 seconds to access the **Role setting** screen.
2. Press + until the role proposed is "system listener."
3. Press OK to proceed.

NOTE

To exit the Listener Mode, when you are in the Role setting menu, you first must press – for 2 seconds 2 times sequentially

Validating or Invalidating Other Devices Listening

For any devices (listener and other devices), you can select which devices of the system you want to listen to. This is indicated by a small dash over the number of the device in the main screen.

By default, the listening is validated on every device.

Procedure

1. Press  for 2 seconds to access the **Role setting** screen.
2. Press + until the role proposed is "system listener".
3. Press + for 2 seconds to access the listener selection screen.
4. Press OK to enter.
5. Press + or - to select the device.
6. Press OK to update.
7. When the modifications are finished, press  to exit.

Setting the Volume

To set the volume, proceed as follows :

1. Make sure you are on the main screen. Press the + or - key for 2 seconds.
2. You can hear a beep in the earflap.
3. To modify the volume level, press + or -. You can use 9 levels. A double beep in the earflap indicates the maximum or minimum level.
4. Press OK to validate.

Locking or Unlocking the Keypad

When you have finished configuring the device, it is recommended that the keypad be locked.

Procedure

1. In the main screen, press **OK** for 2 seconds until  appears on the screen. The keypad buttons are no longer available for use except the On/Off button.
2. To unlock the keypad press **OK** for 2 seconds until the  disappears.

NOTE

The keypad is automatically locked when you switch on the device.

Reloading the Battery

You can reload the batteries before they are unloaded.
The batteries are reloaded in 3 to 4 hours.
Their autonomy is 8 to 16 hours.

CAUTION

When stored unused, the batteries keep discharging due to a small current consumption in OFF mode. Remove the battery from the device when you stop using it and check the battery level before re-using once again the product.

Troubleshooting

Frequent problems are outlined below to help you solve them.

I cannot communicate with other devices.

- Check that all the devices have the same radio channel.
- Check that one device is identified with number 01 or number 04.

The device cannot enter the conference.

- Make sure all the devices have been encrypted to enter the conference - especially if you have added a device after having started the conference.
- Avoid assigning the same number to several devices.

The device does not start.

Check that the battery is correctly inserted.

There are communication disturbances.

Another conference system may be in use close to yours. Change the radio channel to avoid disturbances.

Make sure there is no contact between the antenna and the wire of the headset.

I hear crackling noises.

The microphone of one of the other devices is probably damaged. Replace it.

I can hear myself, there is an echo.

Check there is at least 10 m between the devices' micros.

The buttons are not working properly.

- Ensure that your finger is pressing the sign on the button.
- Avoid pressing more than one button simultaneously with your finger or hand.