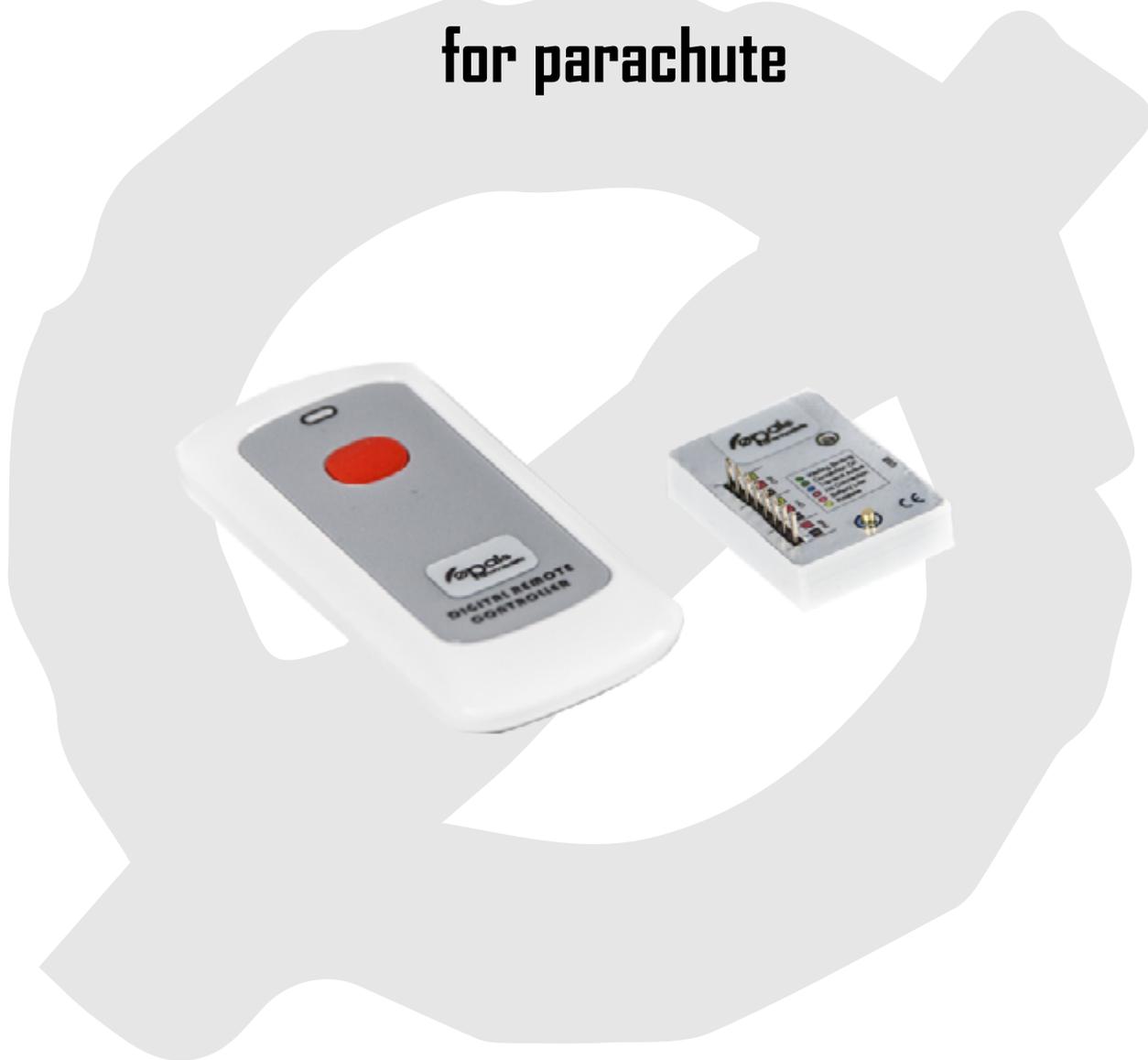


# Remote UAVrescue 868MHz for parachute



Please read this manual before first use.

Thank you for choosing Opale-Parachutes.

This user's guide includes all the information you need to assemble and use your remote for parachute. A good knowledge of your equipment will allow you to safely obtain most of its performances. Thanks for giving this manual to the new owner in case you decided to sell your kit.

Best regards,  
The Opale-Parachutes team.

## Safety Information

By buying our material, you must have a liability insurance and you hereby accept the inherent risk of flying radio-controlled models and drones.

Using our equipment in a bad way may increase risks. Neither Opale Aero System, nor any other seller will be liable for any damage caused by any accident whatever the circumstances are. The way our equipment is used is incumbent upon the final user, including towards the law.

## Summary

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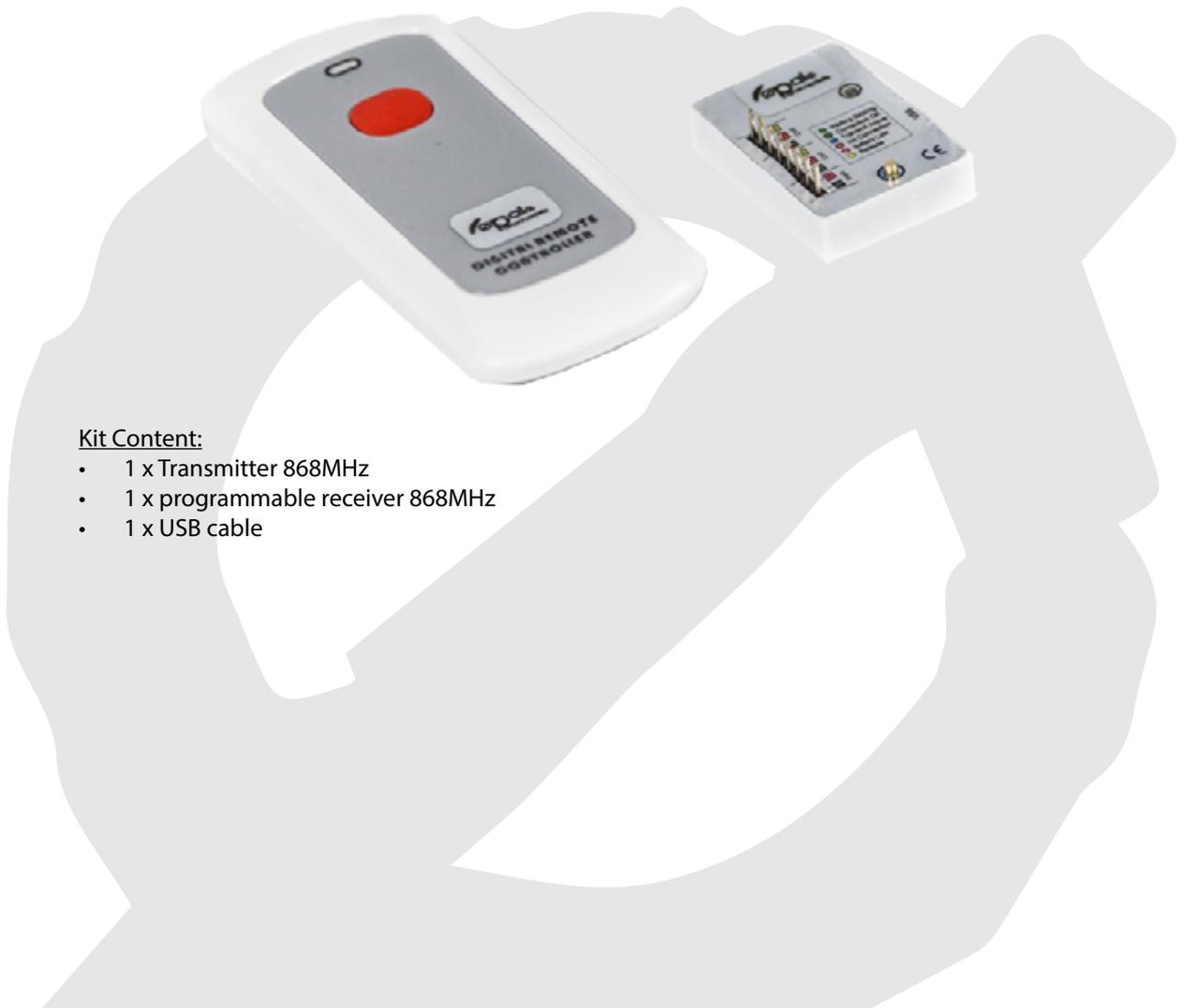
## Warranty

The remote for parachute is warrantied against any manufacturing default.

If, while using, the pilot cut or damage a bridle, tear any part of the parachute, repair and replacement of damaged parts are not taken in account by the warranty and the user will be charged for it.

This kit dedicated to limit the energy of an impact, the user cannot in any circumstances from Opale Aero System any compensation or allowance if his machin is damaged.

## Composition of the kit



### Kit Content:

- 1 x Transmitter 868MHz
- 1 x programmable receiver 868MHz
- 1 x USB cable

## Technical data

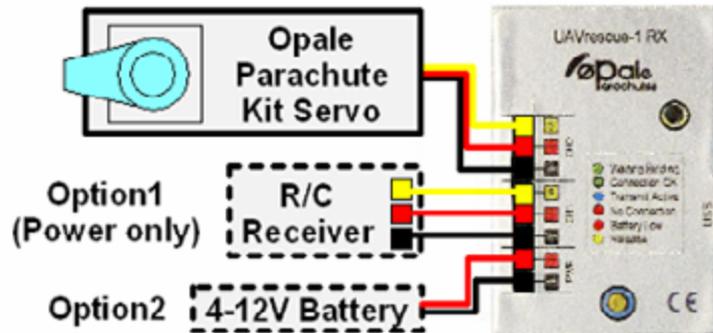
### Transmitter:

- TX dimensions: 9x4x1.5cm / 3.5x1.6x0.6in
- TX mass: 30g / 0.07lb
- TX battery: integrated
- Frequency: 868MHz
- Transmitting power: adjustable up to +14dBm
- Autonomy: 12h
- Charge time ( via USB 500mA): 30min

### Receiver:

- RX dimensions: 3.8x2.2x1.4cm / 1.5x0.9x0.5in
- Rx mass: 8g / 0.02lb
- RX input voltage: 4 - 12V
- Frequency: 868MHz
- RX sensitivity: -148dBm
- Output signal: PWM

## Connection diagram

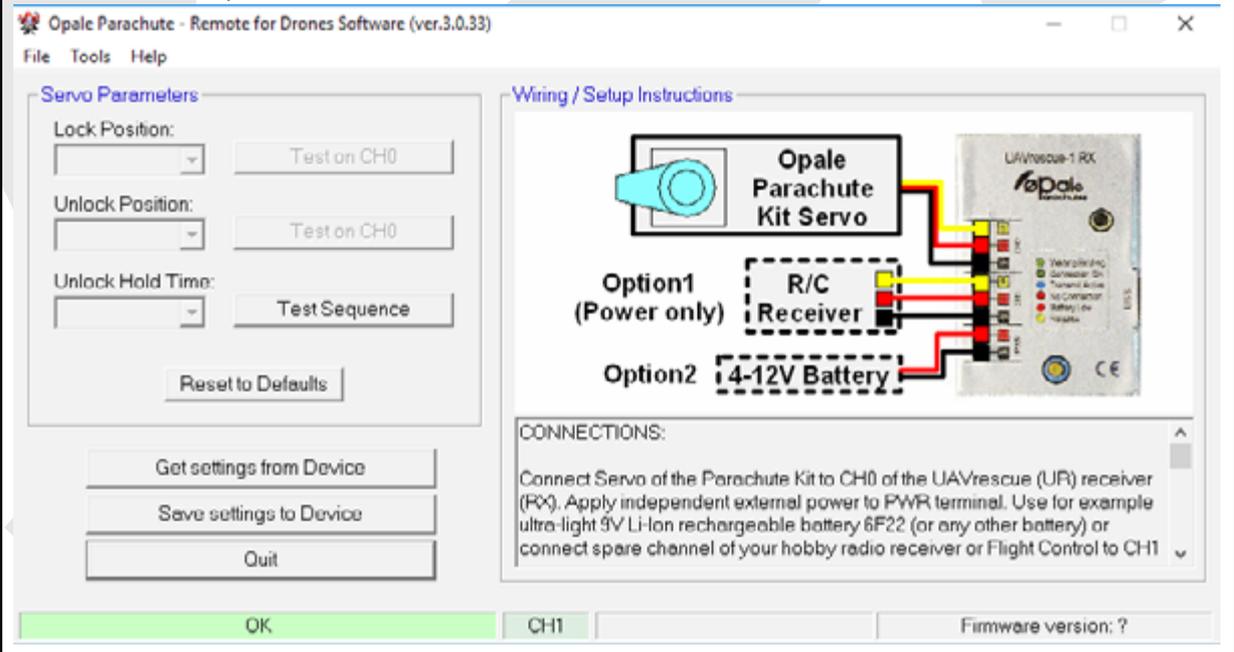


## Settings

Download the software Opale Parachutes UAVrescue available on the following website:  
<http://opale-parachutes.com>

The software is only suitable for the following Operating systems Windows XP / 7 / 8 / 10.

Plug the receiver to the computer with the USB cable provided.  
 Run the software Opale Parachutes UAVrescue.



The status which is shown at the bottom left of the window must be green (connection OK).

Then click on the button "Get settings from the Device".

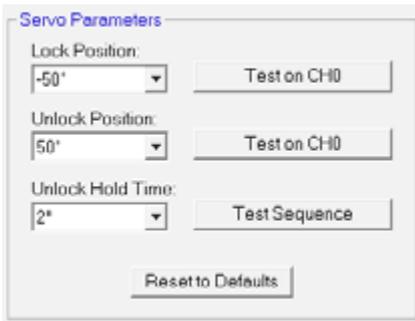
The settings present in the module are now downloaded.

Click on the button "Tool / Update firmware" to update the receiver with the last software version.

Once the update windows is gone, unplug the receiver and plug it back again.

Connect the servomotor plug to the CH0 by taking care of the polarity and connect the battery on the PWR pins. (please check the voltage compatibility between your battery and the servomotor used.)

Click on the button "Get settings from Device". The original settings will appear.



The setting "Lock Position" allows to adjust the servomotor position when the system is on standby mode. It means when there is no order send by the remote to deploy the parachute. The servomotor horn position is locking the arming rod thanks to the pin:



To verify the horn position, click on the button "Test on CH0". This will be positioned on the set value. We need to adjust it according to the desired position.

The same operation has to be performed for the setting "Unlock position". This setting defined the working status, which means when you want to trigger the parachute deployment. This position is reached when you release the pression of the red button located on the remote.



NOTE: During this setting phase, never remove the safety pin "Remove Before Flight".

The setting "Unlock Hold Time" allows to define the time during the the servomotor will remain in working / opened position. A value of 2 seconds is ideal when you use a Safetech kit.

Once all the settings are properly done, click on the button "Save settings to Device" and then unplug the receiver.

#### Transmitter update:

The transmitter update is essential if you updated the receiver and vice versa.

Run the software Opale Parachutes UAVrescue.

The transmitter must be switched off. If it is not the case, press the button until the light goes off.

Plug the transmitter to the computer with the USB cable.

Then click on the button "Tools / Update firmware".

Once the dowload window is gone, unplug the transmitter from the computer. The transmitter must automatically switch off.

## Commissioning - Binding procedure

RX = Receiver  
TX = Transmitter

RX: Hold the button located on the receiver and power it up with the dedicated battery. The light goes red. Release the button and press it again until the light goes green and blinks.

TX: Switch on the transmitter by simply press on the trigger button. The light must be green (not blinking).

TX: Press the trigger button for 1 second.  
RX: The light must be green (not blinking).

The binding is now done. The communication link is established.

## Usage

Once the receiver, the battery and the Safetech are placed on the drone:

RX: Power up the receiver with the battery. The light goes red.

TX: Switch on the transmitter with a single pressure on the trigger button. The light goes green.

RX: After the communication verification (different colors of light), the light goes green and does not blink.

You can test the connection. When you press the trigger button shortly, the light of the receiver goes white when the servomotor is working. During this test, do not remove the safety pin "Remove Before Flight" from the Safetech.

After use, in order to switch off the whole thing, unplug the battery from the receiver and press the trigger button of the transmitter until the light goes off.

## Meanings of the light and sound signals

Meanings of the TX light and sound signals			
TX light signals	Meanings	TX sound signals	Meanings
RED on + BLUE on	Firmware corrupted or bootloader mode or no radio functionality	2x BEEP	Device turned on
RED on + GREEN on	Bootloader mode or no radio functionality	1x BEEP with 3 sec intervals	The radio is near end of range
RED on	No connection with the RX	3x BEEP with 10 sec intervals	The battery is low
GREEN on	The connection with the RX is ok	BEEPS continuously at 0.3 sec interval	Emergency situation is detected by RX sensor
GREEN is blinking	The radio is near end of range		
RED on + GREEN is blinking	No Connection with the RX and the battery is charging		
GREEN on + RED is blinking	The connection with the RX is ok and the battery is charging		
BLUE on	Data transmit		
RED+GREEN+BLUE is blinking	Emergency situation is detected by the RX sensor		
RED is blinking 3 times	Low battery (blinking at 4 sec intervals)		

Meanings of the RX light and sound signals			
RX light signals	Meanings	RX sound signals	Meanings
RED on + BLUE on	Firmware corrupted or bootloader mode or no radio functionality	2x BEEP	Device turned on
RED on + GREEN on	Bootloader mode or no radio functionality	3x BEEP with 10 sec intervals	The battery is low
RED on	No connection with the TX	BEEPS continuously at 0.3 sec interval	Emergency situation is detected by RX sensor
GREEN on	The connection with the TX is ok		
GREEN is blinking	Waiting binding		
RED+GREEN+BLUE on	Release of parachute		
RED+GREEN+BLUE is blinking	The binding is done		
BLUE on	Data transmit		
RED is blinking 3 times	Low battery (blinking at 4 sec intervals)		

### Environment protection

The label on the product, on the user's manual or on the packaging, inform you that this material can not be simply thrown away after the end of use stage. It has to be given to a recycling company to recycle the different electric and electronic components.

According to the labels, most of the components used are recyclable for other purposes. By acting this way, you actively become a part of the environment protection.

The batteries have to be removed from the apparel and have to be given to a company specialized in battery recycling.

Contact your city council or the appropriate department to know the different recycling places near you.

Registering number WEEE: DE 42316912

