Instruction Manual

RAMVR

Wireless PIR Interface

2024
Version 2.1.0

UK
CA

For more information relating to the RAMVR, see the Wireless Module Application Sheet, Wireless RAK Application Sheet, and Wireless Device LED Diagnostics.

For programming a wireless system: Wireless Module Setup Guide

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1 What is the RAMVR?

The RAMVR is a Rako Wireless interface module that integrates 3rd party presence sensors to switch Rako commands.

There are two wiring options for the RAMVR depending on the type of PIR used, volt-free or mains.

NB
Do not use both the volt-free PIR side and the mains PIR side at the same time.

2 Inputs

3 Installation

⚠WARNING

Installation should only be carried out by a competent electrician.

- RAMVR modules should be mounted in areas that are adequately ventilated, dry, and outside of any enclosed metal casings that may interfere with the wireless signal.
- Modules should be mounted vertically, with the terminals at the bottom, or horizontally.
- While the modules are designed to be maintenance-free, they should be mounted in an accessible location should investigation or re-addressing of the units be necessary.
- Ensure that the cable clamps are fitted tightly to secure the cables.

STEP 1		Remove the front covers and set the cable clamps aside.
STEP 2		Choose either option 1 wiring or option 2 wiring depending on the type of PIR. Option 1: Volt-free PIR's Option 2: Mains PIR's NB Check with the PIR manufacturer for compatibility before connecting to the RAMVR.

STEP 3		Replace the covers and cable clamps, and ensure that any of the cables connected to the RAMVR are secure. If the RAMVR is wall-mounted, secure the unit into the bracket provided.

4 Programming the RAMVR

The following steps assume:

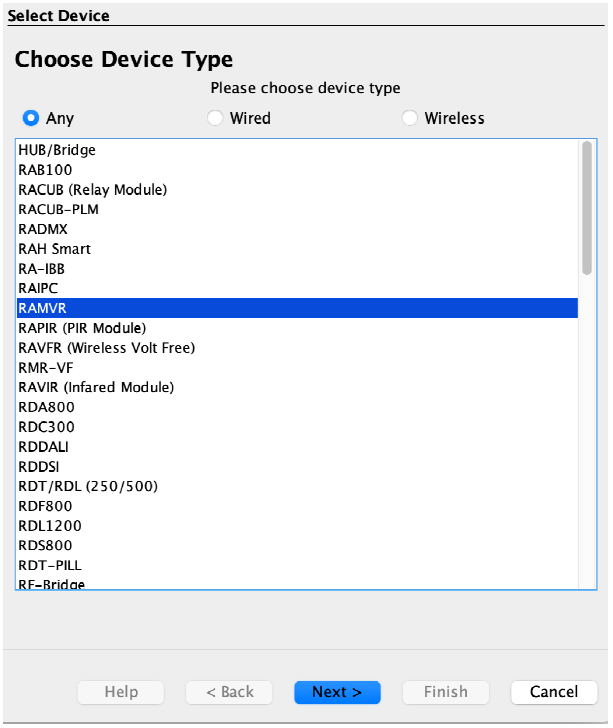
- A Project File has been created.
- Rooms have been created.
- The HUB has been configured.
- The Channels in the Rooms have been labelled.

If the above has not been done, refer to the Wireless Module Programming Guide before continuing.

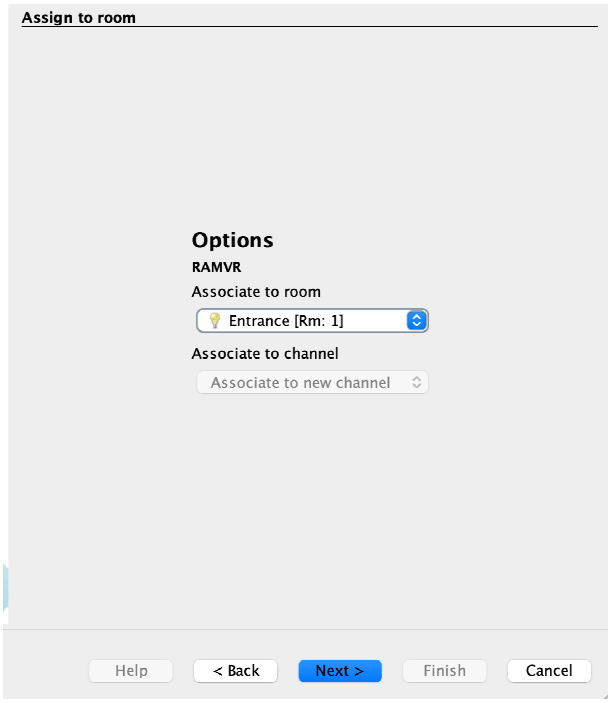
4.1 Assigning the RAMVR

- Select “File” - “New device” to bring up the “New device Wizard”

- Select “RAMVR” and then select “Next”.



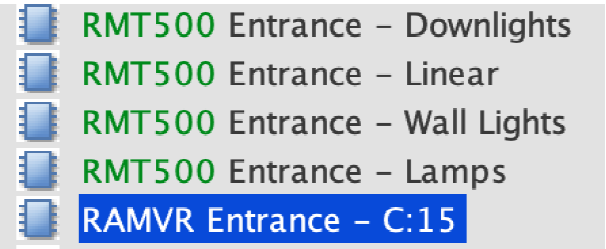
- Associate the RAMVR with a Room using the drop-down menu, leave “Associate to Channel” as it is and select “Next”.



- Put the RAMVR into Setup Mode by pressing and holding the setup button on the unit for 3-4 seconds.

- Once the RAMVR has entered Setup Mode, the blue LED on the unit will blink periodically, select “Device is in setup” > “Finish”.

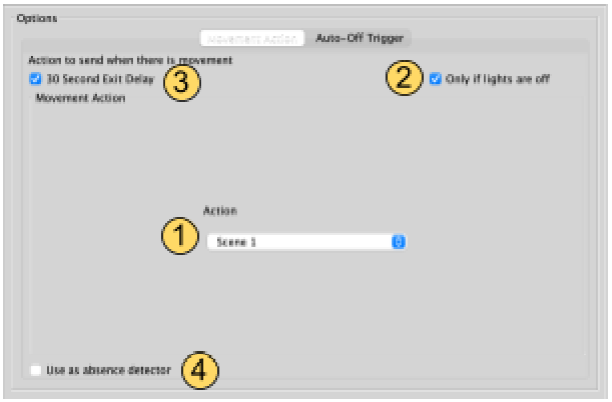
- The RAMVR has been assigned in Rasoft Pro, it can be accessed by selecting it in the “Device List”.



4.2 Configuring the RAMVR

The RAMVR programming options are found on the device editor which is accessed by selecting it in the Device List.

Movement Action



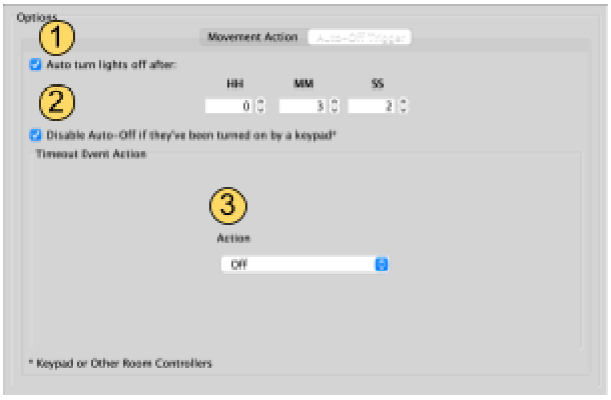
1. Action - Select the Scene from the drop-down menu which is to be triggered when the PIR detects movement.

2. Only if lights are off - When enabled, the PIR will only trigger a Scene if it has received an off command from another source such as a keypad or via the App.

3. 30 Second Exit Delay - When the RAMVR receives an off command, the 'Action' will not trigger for 30 seconds even when there is movement, this is typically used to prevent nuisance triggering and gives enough time for the occupant to leave the Room.

4. Use as absence detector - If movement has not been detected for the specified duration of the 'Auto-Off Trigger' then the RAMVR will send the Auto-Off command. When absence detection is enabled, 'Actions' on the RAMVR are disabled.

Auto-Off Trigger



1. Auto turn lights off after - When enabled, the specified time will reset upon movement detection and begin counting down, once the timer reaches 0s the 'Action' command will be triggered. The timeout can be temporarily disabled by sending an 'Off' command from a keypad programmed to the same Room.

2. Disable Auto-Off
   When enabled, an 'Off' command is received by the RAMVR will disable the countdown timer, this is reinstated when the RAMVR receives a Scene command.

3. Action
   Select the 'Off' command which will be triggered when the PIR times out, although this is almost always 'Off', it can be set to a Scene if required.