



RASOR

Operator pocket guide



Overview

RASOR gathers data from HAVwear and other third-party sensors when within a 30m range and can be used to provide a single interface for sensor alerts plus lone worker support including man down detection, panic button and check-in/out features and alarms.

Select an option

Press the left hand button to select a highlighted option

Left hand button

◀ Select 🏠 Scroll ▶



Navigation options

Press the right hand button to toggle to each option

Right hand button



Sign out a device

RASOR can be attached to a belt using the belt clip or attached using a lanyard. For the most effective detection of Man Down RASOR should be clipped into a pocket in the chest area of the user.



1 Remove the RASOR from the charger and the screen will display the need to assign the RASOR to a user by pressing the right hand button.



2 The screen displays an instruction to place a valid ID card onto the screen area. Once placed, remove the ID card when a beep sounds to confirm the RASOR has been assigned.



3 After assignment the screen will display the users first name and the option to select the button to view the main menu.

Main menu options

Guide to each RASOR feature explaining how to use them.



HAV

View personal and/or assigned colleague sensor data



Noise

View personal and/or assigned colleague sensor data



Panic

View personal and/or assigned colleague sensor data



Alerts

View & confirm personal and/or assigned colleague alerts & alarms



Check-in/out

Pre-defined periodic safety check-in

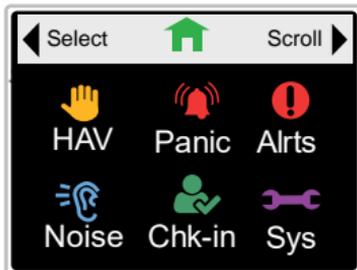


System

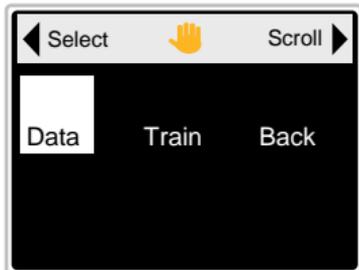
Check device status

Hand-Arm Vibration – View Live Data

*Scroll to **HAV** then press Select*



*To view daily HAV data select **Data***



Displays user personal exposure data

A screenshot of a mobile application screen displaying user personal exposure data. The top bar is grey with a left arrow, the word "Back", a yellow hand icon, and the word "Scroll" with a right arrow. Below the bar, the text "J.McLaughlin" is displayed in white, followed by "Total: 345 pts" in yellow. A horizontal dashed line separates this from the bottom section, which displays "EAV : 100" in yellow and "ELV : 400" in red. To the right of the screen are three grey rectangular boxes with white text: "Users name", "Total points", and "User thresholds". Three lines connect these boxes to the corresponding text on the screen: the first line connects "Users name" to "J.McLaughlin", the second line connects "Total points" to "Total: 345 pts", and the third line connects "User thresholds" to "EAV : 100 ELV : 400".

Hand-Arm Vibration – Tool Training

Selecting the **Train** option will display user and tool details.

To begin a training session, **Select the Select to Train option.**

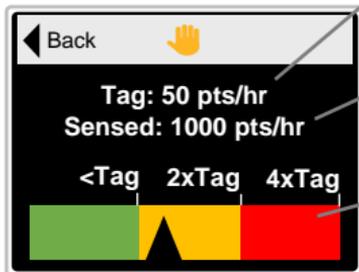


Users name

Tool ID & name

Press **Select** to begin training

The screen displays exposure points and variation of vibration



Tag vibration magnitude – exposure points per hour

Live sensed vibration – exposure points per hour

Gauge graph displays live sensed vibration relative to the tag vibration

Noise – Device Serial Numbers

To assist in the assignment process of the noise monitors, it's helpful to know the serial numbers of the devices prior to assigning them.

Cirrus: To check the serial number for a Cirrus doseBadge see the label on the back



Pamby: To check the serial number for a Pamby, Press both buttons at the same time then the LH button to scroll to Info. To return to Home screen, press both arrow buttons twice

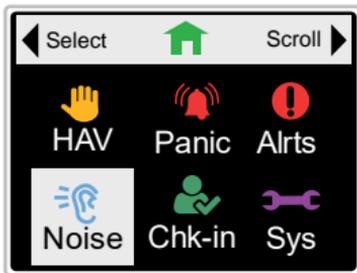


Noise – Assign to an Individual

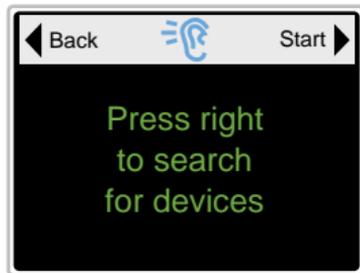
Assigning a Dosebadge to an individual

The noise menu is used to access data from an already assigned RASOR and to assign a noise dosimeter to an **individual**. Reactec support two types of Dosebadge; Cirrus doseBadge5 and a Pambry PED0828.

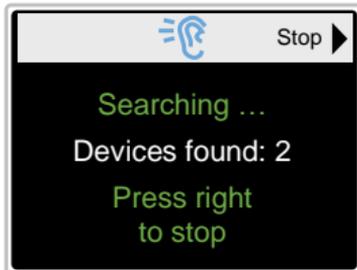
*Scroll to **Noise** then press Select*



Press Start to scan for dosebadges



Press Stop when dosebadges found



Scroll to highlight and Select required Cirrus or doseBadge

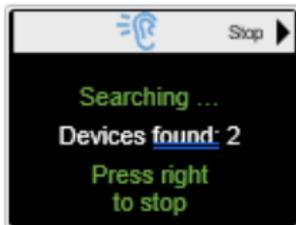
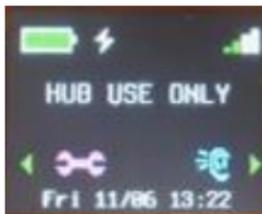


Noise – Assign to Multiple Workers

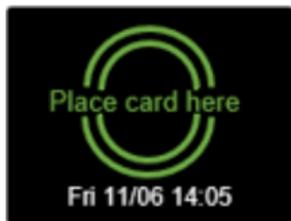
Assigning a Dosebadge to more than one worker

The RASOR should be configured for **hub mode** and held in a powered Dual Charger. (See *Software Admin Guide* for more details).

If the screen is blank, press either the LH or RH button on the RASOR to wake it up. Press the RH button, then the **LH button to assign**. RASOR will **scan** for nearby Dosebadges. Press **RH button** when you see the required number of devices have been found.



Press the **LH button** to select the device to be assigned. Present an **Operator ID card** to the RASOR screen, the device is now assigned to the Operator. To assign multiple devices, repeat the process.



Noise - Notes

Note: After selecting a dosebadge on RASOR the dosebadge will flash an LED. Cirrus solid Blue, Pambry flashing purple. This means RASOR and the dosebadge are paired. While paired the dosebadge is always on and measuring noise.

Provision for the use of Ear Defenders:

The PED0828 includes the ability to adjust the reported noise level for any hearing protection to be worn by the operator. When a PED0828 is assigned to an operator using a RASOR, access to this and other functionality is locked out.

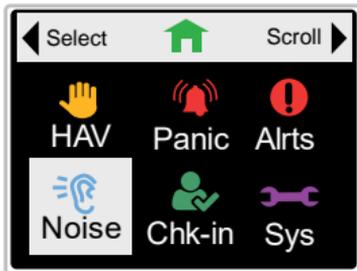
This functionality can be controlled through the Reactec Analytics and RASOR.

An administrator can add to each operator's details, the Single Number Rating (SNR) noise reduction effect of any ear defenders allocated to the operator. The SNR value will be downloaded to RASOR and used to program the PED0828. The SNR value will be added to data file and live noise data messages sent by RASOR to the Reactec Analytics and will be included on noise reports. (***For more information refer to the Software Administration Guide.***)

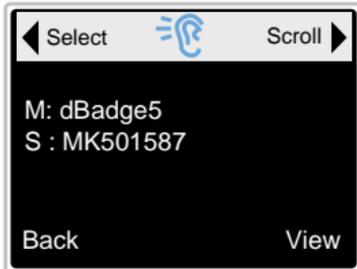
Noise – View Live Data

How to view live measurement data

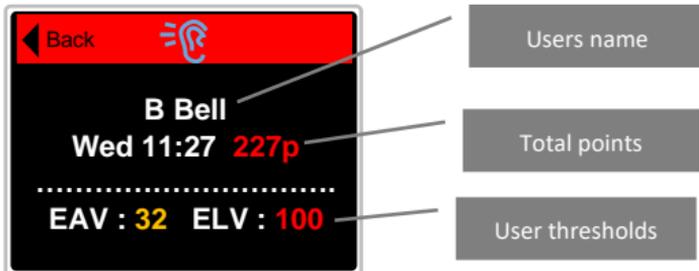
Scroll to **Noise** then press **Select**



Press **Select** to **View** data



Screen displays data

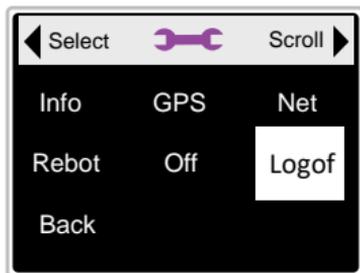
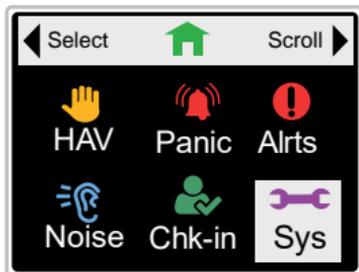


Noise – Deallocate (Individual)

How to remove an assigned dosebadge for an individual

At the end of the working day the RASOR and dosebadge should be returned to a charger. When the RASOR is logged off, the end of day file is collected from the dosebadge and it is unpaired.

From the main menu, enter the Sys menu and select Logoff



Noise – Deallocate (Multiple)

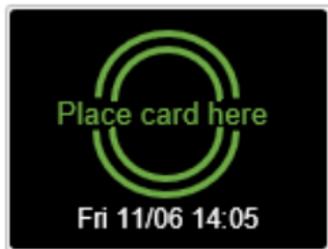
How to remove an assigned dosebadge

The operator ID card which was used to assign the DoseBadge to a specific worker will be required to de-allocate the dosebadge from that worker. The dosebadge needs to be in close proximity to the same RASOR which assigned it.

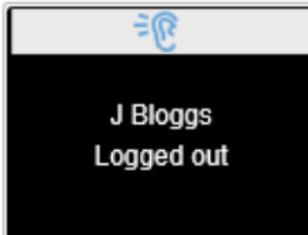
Press RH button to access Sys admin and select LogOf



Present the Operator ID card on the RSOR screen



If the card for the assigned Operator is placed on the screen and the assigned dosebadge is within detection distance of the RASOR, the RASOR will display a logged out message and the Pambry dosebadge will display a 'Saving Report' message



Dust – Assign to an Individual

Assigning a XD1+ to an individual

The dust menu is used to access data from an already assigned RASOR and to assign a XD1+ to an **individual**.

Switch on the XD1+ - the battery indicator will intermittently flash green



Press the LH button on the RASOR to scan for the XD1+



Place the RASOR on top of the XD1+ as per the image below until it beeps



The RASOR will confirm when pairing is complete



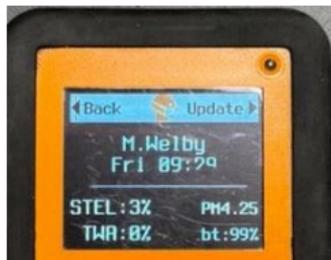
Dust – View Live Data

How to view live measurement data

Press the RH button to enter the main menu then scroll to the dust icon, press the LH button to select.



Select Data to view PM size and current STE and TWA exposure levels.



Select Update to refresh the data or Back to navigate to the main menu.

Dust – Deallocate (Individual)

How to remove an assigned XD1+ for an individual

At the end of the working day, it is important to carry out the following sequence of actions to ensure a full end of day data file is shared between the XD1+ and the RASOR.

*Press RH button to scroll, then
LH button to select dust sensor*



*Press RH button to scroll, the
LH button to select logoff*



If you have a Dual Charger, you can simply dock the RASOR back into the Dual charger then press the LH button to log off.

Dust – Assign to Multiple Workers

Assigning a XD1+ to more than one worker

The RASOR should be configured for **hub mode** and held in a powered Dual Charger. (See *Software Admin Guide* for more details).

If the screen is blank, press either the LH or RH button on the RASOR to wake it up. Press the RH button, then the LH button to assign. RASOR will scan for nearby XD1+. Press RH button when you see the required number of devices have been found.



You will be prompted to present an unpaired XD1+ to the RASOR.



Place the XD1+ on top of the RASOR as per image below



Dust – Assign to Multiple Workers

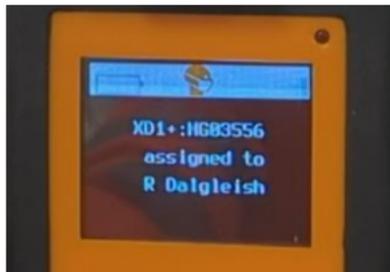
The RASOR screen confirms a successful read of the XD1+ and prompts for an **Operator's ID card** to be presented to assign the XD1+ to a specific worker.



Present the ID card to the RASOR



The RASOR screen will confirm when pairing is complete



To assign multiple devices, repeat the process.

Dust – Deallocate (Multiple)

How to remove an assigned XD1+

At the end of the working day, it is important to carry out the following sequence of actions to ensure a full end of day data file is shared between the XD1+ and the RASOR. The **operator ID card** which was used to assign the XD1+ to a specific worker will be required to de-allocate the XD1+ from that worker. The XD1+ needs to be in close proximity to the same RASOR which assigned it.

Press RH button to scroll, then LH button to select dust sensor



Press RH button to scroll, the LH button to select logoff



Present the ID card to end the specific workers XD1+ session.



Dust – Deallocate (Multiple)

The RASOR will display confirmation that the session has been ended and the end of day data file has been retrieved from the XD1+.

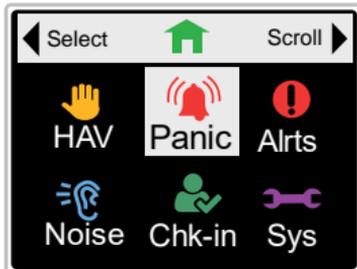


Deallocation steps **must be repeated** to remove the assignment **for each XD1+** device and the specific worker using the XD1+ but also importantly **to collect the end of day file** from the XD1+ so that a full set of data is available in the Reactec Analytics to be aggregated and analysed. **After the RASOR confirms the worker is logged off** the XD1+ should be **returned to a dock or charging point**.

Panic

How to initiate and cancel a Panic alarm

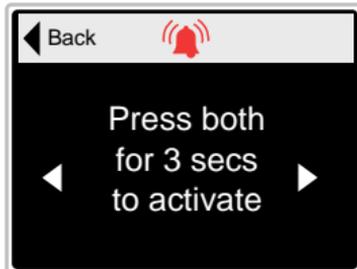
Scroll to **Panic** then press **Select**



The screen will count down the 3 seconds during which contact on only 1 button is necessary to confirm.



Press and hold both buttons for 3 seconds



After 3 seconds the screen notifies a PANIC has been raised and instructs how to cancel the PANIC if it was unintended.



Panic

The screen again counts down the ability to cancel in 3 seconds



When both buttons are pressed the **Panic** alarm is confirmed as cancelled

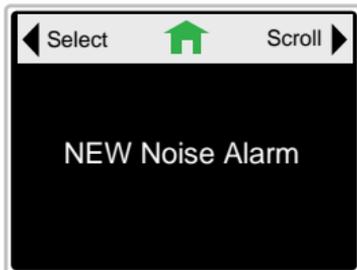


Alerts & Alarms

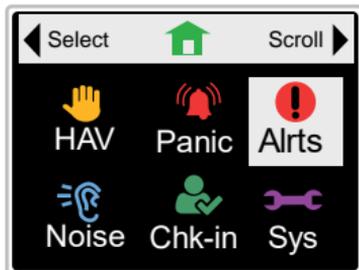
How to view and manage alerts

Data from any HAVwear or other sensors (within approximately a 30m radius) which have reached an Alert or Alarm level can be viewed on a RASOR. Scroll right to view Alerts/Alarms. For any Alert or Alarm there is an option to press the left-hand button to confirm the Alert/Alarm. If an Alert/Alarm is confirmed on a RASOR, the Reactec Analytics receives a message notifying remote management that the incident has been recognised by the RASOR user.

When a RASOR detects an ALARM from a nearby sensor, the RASOR will emit a long buzz and indicate the type of ALARM detected



*To review all Alerts and Alarms within the day **Select Alrts***

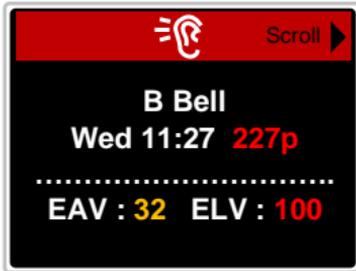
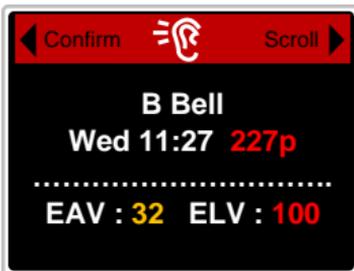


Alerts & Alarms

Noise Alarm

Note: repetitive Alarms will be raised for individual sensors if the increase in risk is material.

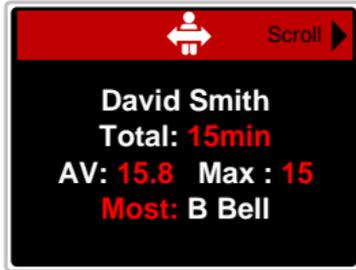
Selecting **Confirm** will Confirm the Noise Alarm and the menu option is removed



HAV Alarm confirmation



Social Distance Alarm confirmation



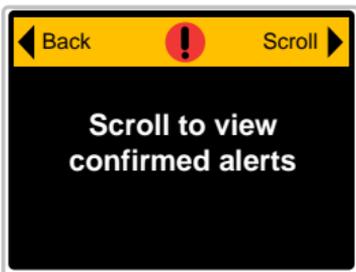
Alerts & Alarms

HAV Alert

View HAV Alert



Confirmed HAV Alert

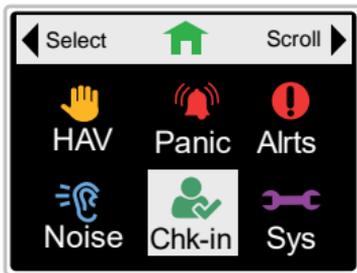


When all Alerts or Alarms have been confirmed the Alerts menu will display the following

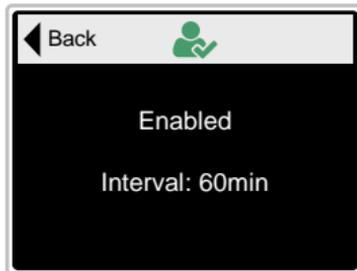
Check-in/Check-out

How to Check-in and out and manage alarms

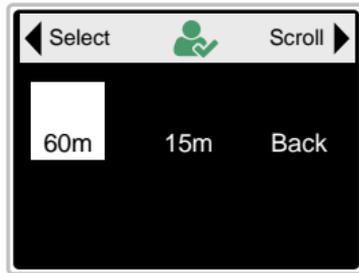
Scroll to **Chk-in** then press **Select**



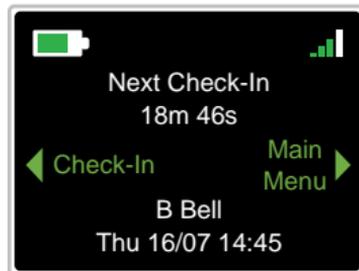
Confirmation of Check-in period



Choose the period required to check-in. Failure to check-in results in an Alarm being sent to the Reactec Analytics.

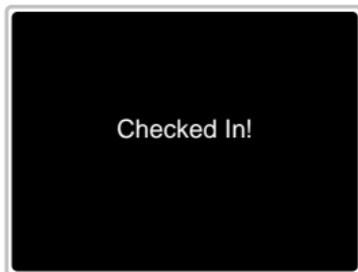


Home screen now displays period left before next Check-in. **Select Check-In** to re-start the Check-in at any time.

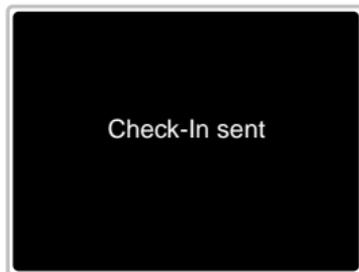


Check-in/Check-out

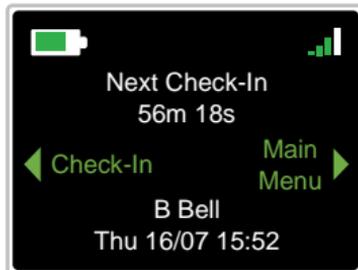
Screen confirms Check-In



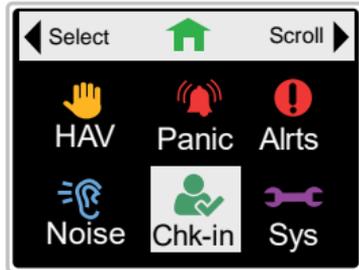
Screen confirms Check-In has been sent



*A second check in period starts of the same length as that initially selected. To stop the Check-in function, select **Main Menu**.*

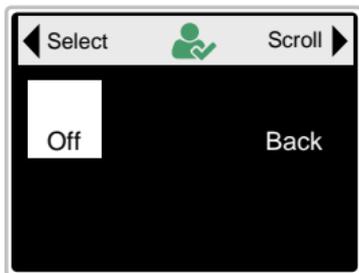


*In the main menu select **Chk in***

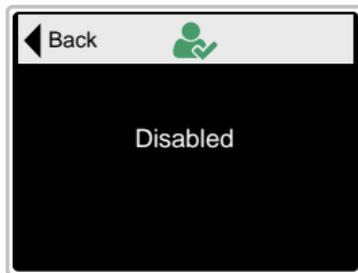


Check-in/Check-out

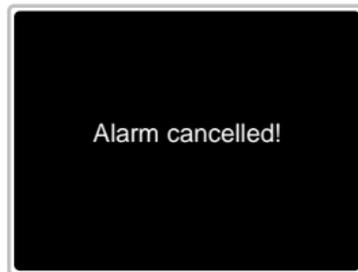
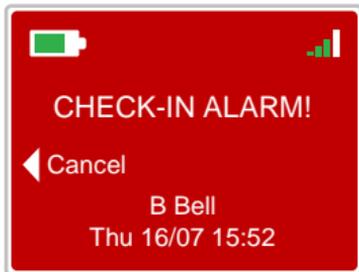
Select **Off**



Screen confirms Check-in is disabled



*Failure to check in within a selected time period will result in a Check-in alarm being raised within the Reactec Analytics (provided a mobile phone signal is available). Select **cancel** at any time if help is not needed. Cancelling the alarm returns the device to the start of a new check in period.*

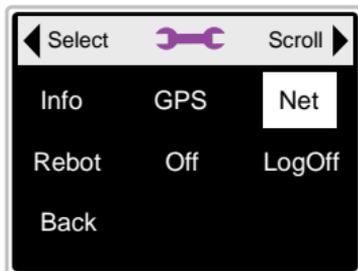


System Admin

Screen displays GPS details



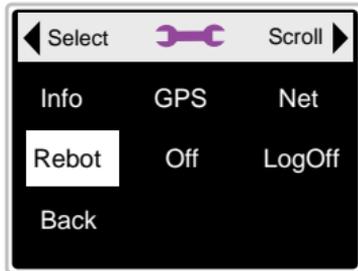
Net provides details of the mobile provider the device is connected to



Screen displays mobile provider details

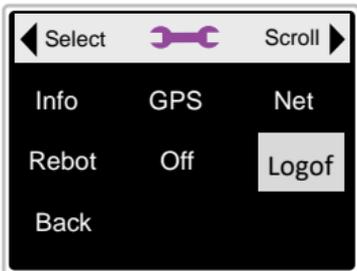


The rebot menu should only be used if instructed by Reactec to reboot a RASOR returning it to an unassigned state or to update firmware



System Admin

The Logoff menu should only be used if you are no longer required to have the RASOR assigned to you and is to be assigned to another RASOR user.



You will be offered the ability to log out immediately when returned to a dual charger by pressing the left select button. You are automatically logged off from a RASOR when it is returned to a dual charger and is not removed from the charger for 4 hours.





Reactec

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