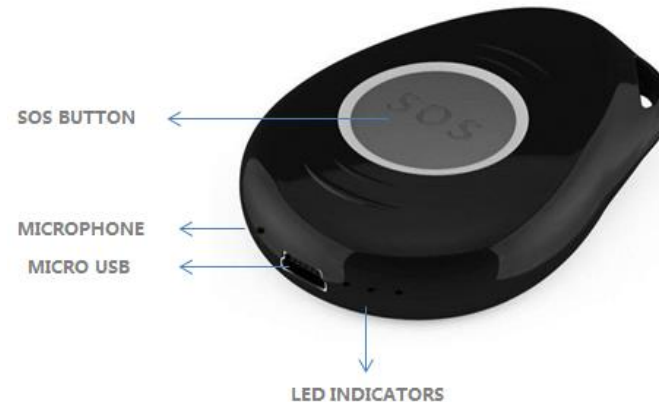




## Getting started - charging



- Peel back the rubber cover and connect the Pebbell with the supplied micro USB connector to a charger or PC/laptop.
- The RED LED will light up while charging and go out when fully charged.
- Disconnect the micro USB and replace the rubber cover.
- We recommend charging for around 8 hours for the first charge. This optimizes future battery performance.

## Getting started – insert the SIM

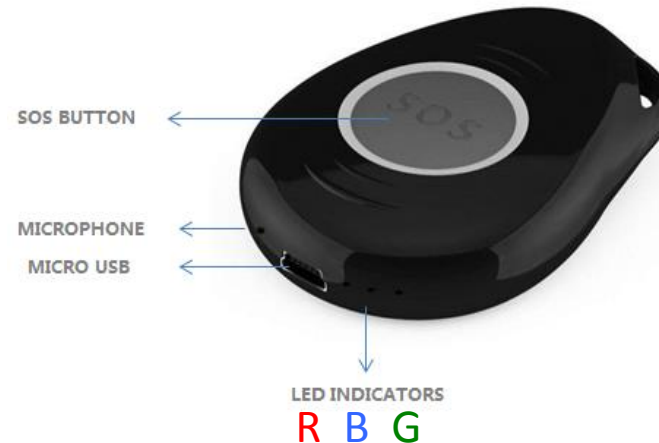


Insert Micro SIM into SIM slot



- Peel back the rubber SIM slot cover.
- Insert an active micro SIM, shiny side up with the clipped edge to the outside until it 'clicks' home. Replace the rubber cover.
- The Pebbell should be off when the SIM is inserted. To switch it off, press and hold the on/off button for 3 seconds. Please note the on/off button is a 'rocker' switch also used as the 'call' button.
- Switch the Pebbell on by holding the on/off button for 3 seconds. This is best done outside/near a window in order to get a location fix.

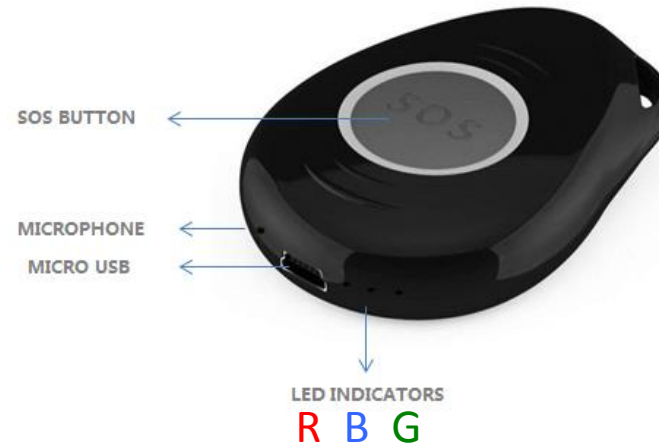
## LEDs - RED



The RED LED is the power indicator:

- A solid red light shows the Pebbell is charging when connected with the micro USB cable.
  - No light indicates the the Pebbell is fully charged (when connected with the micro USB cable\*).
  - The red LED flashes when the Pebbell is moving (motion/vibration detector).
- \* If no red light shows when battery is below 100% the Pebbell is not charging. Try an alternative charging source. If it still isn't charging contact HoIP support.

## LEDs - BLUE



The BLUE LED is the GPS (Global Positioning System) indicator:

- A slow (2 second) flash shows that the Pebbell is trying to get a GPS location fix.
- A slow (1 second) flash shows that the Pebbell has a GSM position fix (this is much less accurate than GPS).
- A fast flash indicates the Pebbell has a GPS location fix.
- The blue LED stops flashing when the GPS is in 'sleep' (power saving) mode, it will 'wake' automatically and flash as above when the Pebbell is moved.

## LEDs - GREEN



The GREEN LED is the GSM/GPRS (mobile networks) indicator:

- A solid green light indicates no SIM is inserted.
- A slow flash shows that the Pebbell is searching for a network.
- A fast single flash shows connection to a GSM network. The Pebbell connects to any GSM network by default.
- A fast double flash shows connection to a GPRS network. The Pebbell can be instructed to connect to GPRS networks.

## Setting Authorized Numbers

The Pebbell can be programmed with up to three authorized mobile phone numbers – A1, B1 and C1.

To set numbers, SMS the instruction A1, B1 or C1 from the authorized mobile phones. The Pebbell will SMS the reply ‘Set mobile number 1 (2 or 3) OK!’

To remove an authorized mobile number, SMS the instruction A0, B0 or C0 from any of the authorized mobile numbers. The Pebbell will SMS the reply ‘Cancel mobile number 1 (2 or 3) OK!’

## Naming the Pebbell

The Pebbell can be given a user name up to 17 characters including spaces (the default name is PEBBELL) for ease of identification.

To name the Pebbell, SMS the instruction 'Name1,*the name you want to give it*'\* from any authorized mobile phone. The Pebbell will SMS the reply 'Add name OK!' Names can be overwritten.

To delete the user name completely, SMS the instruction 'Name0'. The Pebbell will reply 'Delete name OK!'

\* Please note – do not include the quote marks



## Finding the Pebbell's location

Any authorized user can SMS the instruction 'loc' to the Pebbell. It will respond with an SMS showing:

- Time
- Latitude
- Longitude
- Speed
- Altitude (above sea level)
- Battery charge level (%)
- And a link to Google maps that will show current location.

## Setting Geofences 1

The Pebbell can store up to three geofences. Any authorized user can set up a geofence by sending the SMS the instruction 'G1(2 or 3),1(*to switch the geofence on*),xxx(001-999)M(*meters*) or KM(*kilometers*)' from the Pebbell's current position.

The Pebbell will reply with the SMS 'Set Geo fence alarm 1(2 or 3) OK!'

When the Pebbell then enters the geofenced area(s) it will alert all authorized users with the SMS 'Geo 1(2 or 3) alarm!' showing date, time, speed, altitude, battery level and with a link to Google maps.

Geofences may be switched off with the SMS instruction 'G1(2 or 3),0'

## Setting Geofences 2

It is also possible to programme the Pebbell to alert authorized users when it moves outside a predefined area. This is called a movement alarm

Any authorized user may SMS the instruction 'M1,xxx(001-999)M(*meters or*)KM(*kilometers*)' from the Pebbell's current position.

The Pebbell will reply with the SMS 'Set movement alarm OK! *xxx/m/Km*'

When the Pebbell then leaves the predefined area it will alert all authorized users with the SMS 'Movement alarm!' showing date, time, speed, altitude, battery level and with a link to Google maps.

The movement alarm can be cancelled with the SMS 'M0'.

## Fall detection

The Pebbell has a fall detection function. To switch this on any authorized user may SMS the instruction 'FL1' to the Pebbell.

The Pebbell will reply with the SMS 'Falling detection on!'

If the Pebbell detects a fall it will alert all authorized users with the SMS showing date, time, speed, altitude, battery level and with a link to Google maps.

Fall detection can be cancelled with the SMS 'FLO'.

## Switch LEDs off

It is possible to switch off the Pebbell's LEDs (for discrete use or to prolong battery life).

Any authorized user may send the SMS instruction 'LED1'.

The Pebbell will respond 'LEDs off!'.

LEDs can be switched back on with the SMS instruction 'LED0'.

The Pebbell will respond 'LEDs on!'.

## GPS signal lost/recovered

The SMS instruction 'GR1' will cause the Pebbell automatically to send the latest available GPS information to the preset numbers when it loses GPS signal.

The Pebbell will acknowledge the instruction with the SMS 'GPS recovery on!'

Any SMS sent to the Pebbell while GPS is lost will cause it to send GPS information to all authorized users when GPS is restored.

GPS recovery can be cancelled with the SMS instruction 'GR0'.

## GSM Cell location

If GPS signal is lost the Pebbell can be programmed to use GSM cell triangulation to approximate location. Please note accuracy depends on GSM mast density and can be as low as 2km in rural areas.

Cell location is switched on with the SMS instruction 'CL1'

The will respond 'Cell locate on!'

Cell location can be cancelled with the SMS instruction 'CL0'.

## Over-Speed alert

The Pebbell can be programmed to alert users when a predefined speed is exceeded with the SMS instruction 'speed1, xx(or)xxx' (01-255Km/h)

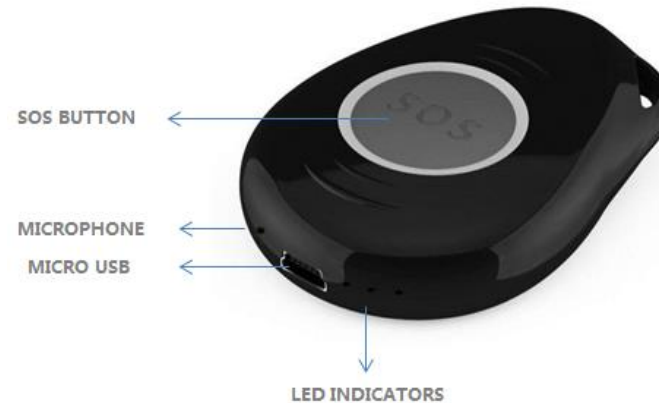
The Pebbell will reply with the SMS 'Set over speed alarm OK! xx(or)xxxKm/h. Current speed: xxKm/h'.

If the set speed is exceeded, all users will be alerted with the SMS 'Over-speed! +GPS Info'

The speed alert can be cancelled with the SMS instruction 'speed0'.



## SoS button



Pressing the SoS button for three seconds will cause the Pebbell to SMS all users with the message 'Help me! Date, time, speed, altitude, battery level and a Google maps link'. It will also sequentially call all authorized numbers until it gets a reply and will open a voice call.

## Making a call



Pressing the call button for three seconds will cause the Pebbell to ring the C1 authorized user number. During the call the volume can be adjusted by pressing the on/off & call rocker switch up or down.

## GPRS functionality

The instruction 'S2' will switch on the Pebbell's GPRS mode. This will be indicated by the green LED giving a fast double flash. In this mode the Pebbell transmits GSM data that enables it to be used as a real time tracker via the <http://mobicare.pebbell.com> web portal.

The Pebbell will respond 'GPRS on!'

The frequency of position updates can be set with the instruction 'TlxxS(*seconds 30-99*)orM(*minutes 01-99*)orH(*hours 01-99*).

GPRS can be switched off with the instruction 'S0'.

## Check Pebbell status

The instruction 'status' will prompt the Pebbell to list the registered user numbers and report the status (on/off, variable parameters where applicable) of:

- the over speed alert,
- geofences,
- vibration sensing,
- movement alert,
- LEDs,
- time zone offset,
- power saving and deep sleep modes,
- fall detection

and report battery level.

## Reboot and reset

The instruction 'reboot' will restart the Pebbell without altering any settings.

The instruction 'RESET!' will restart the Pebbell restoring factory default settings.

## Further information and assistance

For further information on Pebbell functionality or any issues in its use please contact through the webform at <http://www.hoip-telecom.co.uk/contact>

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