Oysta technology
Creative Safety Solutions

- O⟩⟩ One-Touch SOS Button
- O⟩⟩ Amber Alert
- O⟩⟩ Welfare Check
- O⟩⟩ Fall Sensor
- O⟩⟩ No movement detection
- O⟩⟩ Safety Zones
- O⟩⟩ Low Battery Alerts
- O⟩⟩ Power on off Alerts
- O⟩⟩ Speed Alerts

pearl

Oysta Technology

Oysta Technology has been a leader in the GSM - GPS telemetry market for over 10 years.

Combining mobile communication and GPS technology Oysta provides specific hardware and software solutions for safety and security.

Oysta provides its clients with "out of the box" and bespoke software solutions to meet their specific requirements.

Why an Oysta Pearl?

- The latest technology
- Global platform
- One easy to use Platform, reduce cost – improve efficiency
- Use straight out of the box
- Bespoke software and hardware
- GCF approved, probably the only one
- BS8484 compliant

Who needs an Oysta Pearl?

- Telecare users
- Security Guards
- Care Workers
- Lone workers
- Vulnerable People

Product description

The Oysta Pearl is a powerful personal safety device which is small in size, lightweight and combines the latest GPS technology with widely available GSM standards.

The Oysta Pearl mobile is a GPS location device which is designed for personal safety and security.

The Oysta Pearl uses proprietary protocols. It will only operate in conjunction with the Oysta service. You can use the Oysta service through our "out of the box" web service or through an API allowing business customers full integration within existing business systems.

The Oysta Pearl primarily transmits its location information to the Oysta service using GPRS but can fall back on text messaging when in areas of poor GPRS coverage allowing clients to control there costs.

As the Oysta Pearl is a GSM quad band device, it will operate in most parts of the world.

Key features

One Touch SOS Button
If you are in distress, press the SOS button to get help. The Oysta pearl will send your details to your chosen control room or contact.

Welfare Check
A command can be sent to the device which will automatically ask the user if they are 'OK' by showing a message on the screen at a designated time interval. If the user does not confirm 'OK' an alert can be sent to the control room or emergency contact.

Automatic Reporting
Set service start/end time and GPS location interval (cycles). The Oysta Pearl automatically reports its position to the Oysta platform providing travel history.

Fall Sensor
The Oysta Pearl is equipped with a Fall Sensor which immediately sends out alert information in case of a 'man down' situation.

Power Status
Sends out alert information when the Oysta Pearl is switched on or off and when the battery power is low or charging.

Amber Alert
Pre-set your amber alert timer when going into a potential conflict area. If you do not cancel your amber alert within the agreed time period an alert will be sent.

Safety Zones
Create up to 4 Safety Zones (both in and out zone alerts).

Non-movement
The Oysta Pearl automatically detects when there is no movement and will stop sending its position to save battery power and data usage. As soon as it detects movement (based on settings) it will start cycling again.
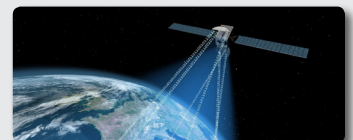

Fall Sensor
Oysta Pearl is equipped with a Fall Sensor, which immediately sends out alert information in case of a 'man down' situation.

One-Touch SOS Button
Just one push of the SOS Button will contact a pre-defined number and send a message with location information.

Welfare Check
Check the user is alive and well by sending a command which the user must respond to.

Safety Zones
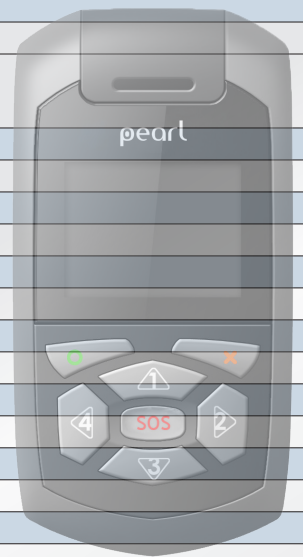Create up to 4 Safety Zones (both in and out zone alerts)

Technical specifications Oysta Pearl / GT300

General

Dimension (mm – H/W/D)	87 x 44.5 x 17 mm
Weight (g)	75g

Hardware

Chip Set	MTK MT6 223D with closed embedded OS supporting Oysta Custom protocol
GPS Baseband	uBlox 6 Engine GPS Receiver
Band	Quad band GSM 850/900/1800/1900
Receiver	20 x 14 mm
Speaker	20 x 14 mm
Screen	1.3" white OLED display
Keyboard Backlight	LED – Navy blue
Vibrate Mode	Yes
GSM Antenna	Internal antenna
GPS Antenna	Internal antenna
System Interface	Proprietary
Earphone Interface	Yes
RF Test Interface	For use by mobile network operators for RF network testing
Temperature	Normal working conditions: -10 to 55°C Limited working conditions: 55 to 65°C

Software

Ring tone	16 channel polyphormic MIDI for incoming calls, 25 different ring tones
Voice codec	FR, EFR, HR, AMR
Two path audio	Earphone and receiver
Phonebook	20 numbers
SMS	Possibility to receive text messages

GPS	• uBlox 6 Engine GPS Receiver
	• Receive 20 channels, L1 1575.42 Mhz, C/A code 1.023 Mhz chip rate
	• DGPS accuracy 1 to 5m, typical 0.05m/s
	• Acquisition rate (TTFF defined at 95% of first position local station)
	    Standard GPS mode:
	      - Hot start <1 second, average in open sky
	      - Warm start <30 seconds, average in open sky
	      - Cold start <30 seconds, average in open sky

Sensitivity	Autonomous Acquisition -148dBm, Hot start -160dBm, Tracking -162 dBm
Channels	50 channel all -in-view tracking
OTA	Over the air command settings from the Oysta server using the Oysta proprietary protocol
Motion Sensor	Sends out alert information when activated and shock is detected.
Speed Sensor	Sends out alert information when activated and speed threshold is met.

Package contents
The Oysta Pearl comes in a complete retail package:

• Handset
• Travel charger
• 850 mAh battery (Li-ion)
• Hands free headset
• User manual

Accessories
Available accessories are:

• Pouch
• Belt clip
• Travel charger
• Car charger
• Hands free headset
• 850 mAh battery (Li-ion)

For more information about the Oysta products and services please visit www.oysta-technology.com

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