

PEARL

Help at your fingertips



Designed with safety and comfort in mind, Pearl gives people confidence and independence, knowing that help is only a button press away.

What is it?

Pearl is an easy to wear transceiver that communicates bi-directionally with a SEVEN-D base unit. When in range, pressing the button will summon help in an emergency.

Advanced technology has been smartly wrapped in a sleek and discrete casing that is hot waterproof and can be worn in the bath or shower.

Pearl is peace of mind.

Who is it for?

People living independently will benefit from the feelings of safety and security that Pearl offers around the home and garden.

If dexterity or mobility is an issue, then there is a variety of attachments available so Pearl can be adapted to suit the individual user.

Pearl is for peoples' wellbeing.



How does it work?

When help is needed at any time of the day or night, press and hold the button on Pearl and count to three. The outer rim of Pearl will flash red to let the user know that the call for help has been received by the base unit, and will be sent to the Alarm Receiving Centre (ARC).

When an alert for help is activated, a loud ten second pre-alarm will sound from the base unit. If it is a false activation for any reason, then the alert can be cancelled during this period by pressing the 'Cancel' button on the base unit.

Once the pre-alarm has finished, voice messages will play to keep the user informed while they are being connected to the ARC. When the help alert has been received by an operator, they can call back and speak to the user through the automatic speakerphone, and organise the assistance that is needed.



Features

- Pearl has a large button surface area to make it easy to press in an emergency, and is recessed to reduce false activations.
- Bi-directional communication with the base unit.
- A light ring around the outer edge of Pearl will flash red to let a user know that their alert has been received by the base unit, and will be sent to the ARC.
- Range testing for installers is made easy with the light ring confirming communication with a base unit.
- Pearl is hot waterproof and can be worn in the bath or shower.
- Pearl has excellent range to a base unit, with 300m+ being typical in open air.
- The use of quality components, and rigorous testing, ensures each Pearl will work when needed.
- Pearl self-tests to the base unit to ensure continued connection, and this is logged.
- Typical life of a Pearl battery is five years.
- Pearl reports when the battery capacity is reduced to 20%, providing ample time to organise a replacement.

Ways to wear and use Pearl



Pearl Pendant



Pearl Wristwatch



Pearl Brooch



Pearl with Easy Press Sleeve / Wall Mount option

User Features	Pearl
<p>Wearable - Pearl is designed to be lightweight, discrete, and easy to wear at all times, including the bath or shower. Multiple attachment options mean people can choose a help button that suits their lifestyle. The button is a soft grey colour to lessen its visibility, thereby reducing the stigma surrounding wearing a help device.</p>	
<p>IMPORTANT NOTE: Pearl personal help buttons utilise low power (60µW) radio frequency to connect with SEVEN-D base units. Pacemaker manufacturers that the manufacturer have contacted state that there are no known risks with RF pendants and pacemakers. However, we take a conservative approach and advises that Pearl should not be worn as a neck pendant. It can be worn as a wrist watch or clip-on pendant, as long as the Pearl is positioned a minimum distance of 15cm away from the pacemaker, aligning with the standard recommendation from pacemaker manufacturers of low power devices.</p>	✓
<p>Confidence Building – When Pearl is activated and the alert is successfully received by the SEVEN-D base unit, the outer edge of the Pearl transceiver flashes red to reassure the user that their alert has been received, and will be sent to the monitoring centre.</p>	✓
<p>Easy to Use – The large 15mm surface area of the button makes it easy to press, and the recess reduces false activations.</p>	✓

Safety Features	Pearl
<p>Automated testing – When learnt into a base unit, Pearl sends an RF (radio frequency) self-test every seven hours, and this test is logged. If there are multiple self-tests missing, this is reported to monitoring and notifies locally on the base unit. If the Pearl self-test is again received by the base unit, then a restore report is sent.</p>	✓
<p>Bi-directional – A Pearl transceiver confirms that the base unit has received the alert for help by flashing red around its outer edge. If no flashing lights are seen, then Pearl should be activated again.</p>	✓
<p>Hot waterproof - Pearl is IP68 rated, waterproof in hot and cold water. Users are encouraged to wear Pearl in the shower or bath.</p>	✓
<p>Chain – The Pearl pendant has a surgical grade, stainless steel hypoallergenic chain with clasp, which will break when significant pressure is applied.</p>	✓
Installer Features	Pearl
<p>Learn Mode – Up to 16 Pearl or other Telecare devices can be paired with a SEVEN-D base unit. The unique learn mode optimises safety by adding devices to an ‘active’ list when paired within a learn session. Previous devices learned will be ‘inactive’, but if they are found and used at a later date, they can still activate the base unit, and will resume testing (active). Telecare devices are not deleted through Learn Mode, but ‘inactive’ devices can be over written when the list is full.</p>	✓
<p>Test Mode – During test mode Pearl will flash when within range of the base unit, making it easy to test around the property if out of hearing range of the base unit.</p>	✓
<p>Exceptional battery - Pearl has a 5 year battery life with typical use. Typical use is defined as one activation per month, and an RF test transmission every seven hours. A low Pearl battery is reported to monitoring when it reaches 20% capacity. This early warning provides ample time to arrange a Pearl replacement.</p>	✓

Technical Details

- System:** **Pendant** with surgical stainless-steel chain and clasp.
Wristwatch with an easy to clean, polyurethane watch strap in light grey.
Pearl Kit with attachments to interchange the watch to become a Pendant, Clip-on Pendant, or Easy Press.
- Dimension:** 40 H x 32 W x 10 D mm (excluding attachment method).
- Weight:** 11.8 grams, excluding attachment method.
- Environment:** Operating temperature of 0 - 40°C, 90% humidity (non-condensating).
- Sealed:** IP68 – hot waterproof.

Radio

869MHz European Social Alarm Frequency. RF range of 300 metres+ typical in open air when communicating with SEVEN-D Base Units.

Battery

Each Pearl is fitted with a lithium coin cell battery. Low battery reporting to monitoring at 20% capacity remaining. Batteries are non-replaceable.

Expected Life

The product and its component parts are expected to operate for approximately five years, with typical use* when the maintenance recommendations provided by the manufacturer in the manual and update notifications are followed. The expected life excludes incorrect usage or usage that is inconsistent with manufacturer product manuals, including a failure to follow the various warnings set out in these documents.

*Typical use is defined as one activation per month, and 7 hour RF test transmissions to base unit.

Product Codes

Standards

EMC Directive 2004/108/EC
IEC 60950-1:2001,
BS EN 60950-1:2002

ETSI EN 300 220:2010 Class 1
EMC and radio spectrum

BS EN50134-2:200

RoHS: Compliant
Radio Equipment Directives (RED): Compliant
CE: Compliant

Manufacture Quality Assurance:
ISO 9001.

Due to continual product development this product specification may change without notice. Chiptech does not accept responsibility for any errors or omissions contained within this document.

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