



sensory impairment solutions

What are sensory impairment solutions?

Sensory impairment solutions are devices that can be added to telecare systems to support both visually and hearing impaired users to live safely at home. They include devices such as vibrating pagers, sounder and flash beacons to ensure the user or carer is alerted when an alarm call is raised via the Lifeline home unit or other Tunstall telecare enabled system. This helps to provide added reassurance and protection to the user both during the day and at night.

Why are sensory impairment solutions needed?

According to the Royal National Institute for the Blind, there are around two million people in the UK with a sight problem. Among these two million people, over 370,000 are registered as blind or partially sighted. It is also estimated that an additional 20 per cent could be eligible for registration but have not yet done so. 45% of blind or partially sighted adults live alone.



Age-related eye conditions are the most common cause of sight loss in the UK. Ninety-five per cent of people with sight problems in the UK are sixty-five or over.

There are also nearly 9 million deaf and hard of hearing people with two million people using hearing aids.

This represents a large proportion of the UK population and in particular a large proportion of existing telecare users. Due to their impairment it is critical that people living with such a condition in particular those living alone are alerted quickly when an alarm is generated within their home.

The need to provide access to services for people with sensory impairments is reinforced in the Disabilities Discrimination Act 1995.

DDA solution

The DDA Vibrating Pager is linked to the Lifeline 4000+/Connect+. When a telecare sensor is activated, the Lifeline sends a signal to the pager, via the DDA transmitter, which alerts the wearer by vibrating and lighting one of two LEDs (telecare sensor activated or telephone line ringing). This means that both visually and hearing impaired users can be quickly made of telecare alarms. The solution is very simple to set up and has a 200m range from the transmitter providing sufficient coverage for most homes and gardens. Unlike a number of similar systems, this pager solution doesn't require a radio licence.

DDA vibrating pager

The DDA Vibrating Pager is linked to a Lifeline 4000+/Connect+. When a telecare sensor is activated, the Lifeline home unit sends a signal to the pager, via the DDA transmitter, which alerts the wearer by vibrating and lighting one of two LED's (telecare sensor activated or telephone line ringing). This means that both visually and hearing impaired users can be quickly made aware of telecare alarms.

The compact design means it is possible for the user to move around freely in their home or garden and still be alerted if a telecare sensor raises an alarm. The Pager is small enough to be put in a pocket or attached to the belt or waist band.



DDA Vibrating Pager

DDA pager charger (inc pillow alert pad)

The DDA Pager Charging cradle is required to charge the DDA Vibrating Pager's battery at night. The cradle also links to a vibrating pillow alert pad. When the pager is placed into the cradle, it automatically vibrates the under-pillow pad when a telecare alarm is raised, to wake the sleeping user providing them with added reassurance and protection. Up to two vibrating pads can be connected.



DDA Pager Charger and Pillow Alert Pad

DDA flashing beacon

The DDA flashing beacon works in conjunction with the DDA pager and transmitter to alert the user of telecare alarms with clear, distinct flashes and indicates the device that has been activated by lighting different coloured symbols. It comes with a mounted table stand.



DDA Flashing Beacon

Other solutions

User/carer pager

This pager solution provides hearing impaired users with immediate notification of alarm call activation in supported and individual housing (Lifeline 4000+), as well as door entry alerts to ensure that the appropriate action is taken. The solution provides up to 500 metres of radio range therefore is ideal for use in instances where the user/carer requires alerts across a wider area*.

On generation of an alarm or door entry call, the body worn pager will begin to vibrate to attract the attention of the user. The pager will then provide visual identification of the type of call being raised on an illuminated display, to enable the user to respond immediately.

Each pager is dwelling specific thereby ensuring that users in supported housing schemes will only receive the alerts relevant to them.

* Requires transmitter licence.

Sounder beacon

The sounder beacon combines visual indication together with a loud siren in order to alert people with hearing or visual impairments to a certain type of alarm activation (eg smoke detector) or to an incoming telephone call. The sounder beacon can be connected to the Lifeline home units or other Tunstall telecare enabled systems. Two colours (red and blue) are available in order to differentiate between alarm types.

Visual call beacon

The visual call beacon provides visual indication only, in order to alert users to selected types of alarm activation (e.g. smoke detector) or to an incoming telephone call. Can be connected to a Lifeline 4000+ home units or other Tunstall telecare enabled systems.

Pillow alert solution

This solution comes complete with a dedicated smoke detector, strobe light and under pillow vibrating pad. It provides a smoke alarm alert to a sleeping user via the vibrating pad and a visual alert via the strobe light for when the user is out of bed.

Big button phone

An easy to use big button phone is available to aid people with limited dexterity to make and receive telephone calls. The phone features large black buttons with white numbering to help visually impaired users, together with a visual call indicator, volume control and induction loop, specifically for the hearing impaired.



User/Carer Pager



Sounder Beacon



Visual Call Beacon



Pillow Alert Solution



Big Button Phone

Technical details

DDA Vibrating Pager:

Weight: 70g
 Dimensions: 57 x 86 x 29mm (WxHxD)
 Battery: 1.2 V AAA NiMh rechargeable
 Battery life: 1 week on one charge
 Range: Up to 200m (line of sight)

DDA Flashing Beacon:

Weight: 70g
 Dimensions: 70 x 140 (WxD)
 Power: 7.5V DC
 Range: Up to 200m (line of sight)

DDA Pager Charger:

Weight: 385g
 Dimensions: 78 x 88 x 43mm (WxHxD)
 Power: 6V DC
 Back-up battery: Internal NiMh rechargeable
 Flex length: 1.7m

Pillow Alert Pad:

Weight: 70g
 Dimensions: 57 x 86 x 29mm (WxHxD)
 Battery: 1.2 V AAA NiMh rechargeable
 Battery life: 1 week on one charge

Part Number: *DDA Solution Kit (including pager, transmitter, charger and pillow alert pad) 9000/95*
DDA Flashing Beacon D6866002A

Compatibility: All with the Lifeline 4000+/Connect+/Communicall

User/Carer Pager:

Weight: 90g
 Dimensions: 75 x 50 x 16mm (WxHxD)
 Range: Up to 500m
 Power: 1 x AAA battery
 Battery life: 45 days
 Compatibility: Lifeline 4000+ or Communicall

Part Number: *Pager i9000/69A*
Transmitter i9000/60A
Transmitter Licence i90006/60A

Sounder Beacon:

Weight: 180g
 Dimensions: 86 x 82mm (WxD)
 Compatibility: All Tunstall telecare enabled systems

Part Number: *Red 92100/18*
Blue 92100/20
Power Supply 8020/48

Visual Call Beacon:

Weight: 80g
 Dimensions: 75 x 65mm (WxD)
 Compatibility: All Tunstall telecare enabled systems

Part Number: *Visual Call Beacon GS443*
Power Supply 8020/48

Big Button Phone

Weight: 50g
 Dimensions: 174 x 85 x 170mm (WxHxD)
 Cord Length: 2 metres

Part Number: *Big Button Telephone 30000/52*

All Tunstall's literature is available in large print. Please email enquiries@tunstall.co.uk or call **01977 660479** for a copy.

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