NAVIGIL

S3 Mobile Telecare Wristwatch

Stylish SOS phone in a wristwatch!

- **3G/2G phone in an analog wristwatch**
- **Single button SOS call with location**
- **No movement alarm**
- **Long battery life**
- **Battery low and battery critical alarms**
- **Wearer activity statistics**
- **Monitor changes in level of activity**

Navigil S3 wristwatch has been designed for elderly persons who may need assistance in order to live indepedently at home.

Get help in an emergency

The mobile phone function in Navigil S3 can be used to make a help request call and to get help within the golden hour in an emergency. Navigil S3 can also automatically make an alarm if the wearer is immobile during the day for an extended period of time. Timely help can save weeks of time in hospital while improving patient outcome. Help is just one press of a button away.

Blended care model - optimal use of resources

Navigil Rafael service provides a secure way of routing help request calls and notifications among caregivers and the professional Alarm Receiving Centre. Family and friends can be the first line of support and in their absence the 24/7 alarm receiving centre is contacted. In the Rafael service the sequence of actions can be defined for each type of alarm and warning. Navigil Rafael service provides caregives means to define the help request and notification routing settings by themselves. This blended care model enables optimal use of scarce care resources.

Easy to deploy

Navigil S3 comes with a SIM card pre-installed - simply select appropriate wearer profile and configure the phone numbers and Navigil S3 is ready to go. Navigil S3 has profiles for various type of wearers. Richness of the user interface in each profile is matched to the dexterity and capabilities of the wearer. All profiles are enabled to receive phone calls. Navigil S3 can operate up to a week on a single charge while being always registered to the mobile network and sending periodic reports.

Cost effective

Navigil S3 and Rafael service can save significant amounts of money while providing peace of mind to caregivers. Navigil S3 pays for itself in a few days.
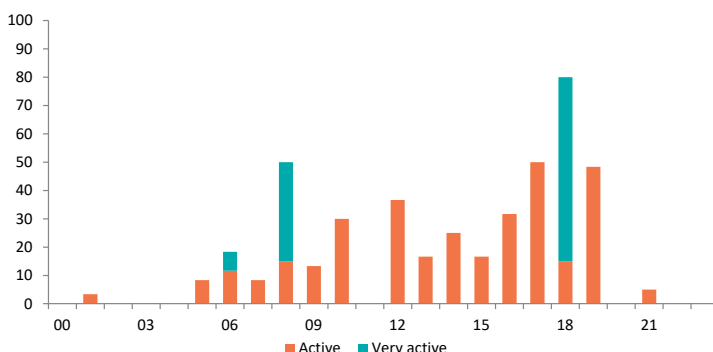
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Industry benchmark footprint and functionality

Mobile comms	Modem type	Tri band 3G/GSM/GPRS/EDGE/UMTS/HSPA+ (EU and US versions)
	Communication	SMS, FTP, HTTP, TCP, UDP, USSD
GNSS	Receiver type	GPS/GLONASS receiver, SBAS WAAS/EGNOS/MSAS support
	Sensitivity	Acquisition -148 dBm, navigation -162 dBm
	A-GPS	A-GPS assistance (up to 28 days)
Short range comms	BLE	Bluetooth Low Energy communication with home and mini beacons
MCU	Processor	ARM Cortex-M3, 512 kbytes (total code memory)
	RAM & flash	64 kbytes (total RAM), 8 Mbytes (total data flash)
Audio	Microphone / speaker	Adjustable gain and volume control
User interface	Wearer profiles	Auto, easy, full and tracking profiles
	Adjustable UI	Selected profile enables/disables UI features
	Watch	Analog watch, two software controllable hands
	Buttons	Crown, emergency call, speed dial and yes/no/up buttons
	LEDs	3 user interface / status LEDs
	Other	Two row OLED display, speaker, vibrator
Sensors	Onboard	3D accelerometer, temperature
Battery	Li-ion	500 mAh
Operation time	Phone always on	Typical 4 - 7 days, depending on used profile and conditions
	Phone on when required	Up to four weeks, depending on used profile and conditions
Software features	Data communication	SMS, USSD, GPRS, HSPA+ with message buffering on data flash
	Over-the-air updates	Configuration, parameters, safe zone, firmware and boot loader
	Safe zone functionality	Polygon or circle safe zones with validity time attributes
	User initiated phone calls	To alarm receiving centre and up to 8 speed dial numbers
	Receiving phone calls	Automatically or by user accepted calls, white list access control
	Alarms	Battery critical, battery low, no movement
	Activity statistics	Wearer statistics including duration of very active, active, little movement, at home by area, out of home periods
	Event reports	Periodic status, help request call, home beacon, activity statistics, battery status and charging reports, location reports
Temperature range	Operation	Use: -20°C – +60°C, S1 charging 0°C – +45°C
Certifications		RoHS, CE, 99/5/EC
Available versions	S3	EU 3G/2G, US 3G/2G several wristwatch and strap designs
Enclosure	S3	Splash water protected, standard strap, 22 mm interface
Dimensions	S3	Diameter 48 mm, thickness 17 mm, weight 65 gr. (normal strap)
Beacons	Charging dock	Easy to use charging dock with beacon functionality
	Battery beacons	Provide indoor location and statistics on wearer's daily routines. Beacon zone codes: bedroom, WC, kitchen, living room, entrance. Easy peal and stick installation. Up to two year battery life.

Activity

Key features are:

• SOS call with single push of a button
• Emergency location report
• Automatic immobility alarm

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