



# S3 Personal Safety Wristwatch

Wristwatch phone and tracker for cognitively impaired persons!



Navigil S3 wristwatch has been designed for persons who may face a situation where they need help in order to manage their daily life independently. Wristwatch wearer can safely go about with the knowledge that caregivers are only one phone call away. Caregivers can enjoy peace of mind knowing that the loved one is always reachable and if necessary locatable using the Navigil S3.

### Stay in touch

Navigil S3 can receive calls from white listed phone numbers using the inbuild speaker and microphone. Incoming calls can be automatically answered by Navigil S3 if required. Wristwatch user can also make help request calls to a list of family and friends. Wristwatch users who have good dexterity can also make normal phone calls to persons in the white list.

### Detect changes in level of activity and routines

Activity reports can be used to identify persons whose level of activity or daily routines are changing. This enables

- 3G/2G phone in an analog wristwatch
- Single button SOS call with location
- No movement alarm
- GPS and beacon indoor location
- Safe zone exit alarm
- Battery low and critical alarms
- Long battery life

implementation of preventive actions that improve wearer's quality of life while providing peace of mind to caregivers.

### Location tracking outdoors and indoors

Outdoors Navigil S3 uses a GPS receiver to determine the location of wristwatch wearer. Tracking can be either continuous or only when the watch wearer requires help. Beacons can be used to provide accurate indoor location. A-GPS support enables GPS receiver to acquire location information very fast and even in challenging conditions. Safe zones can be used to alert family members of watch wearer's exit from the area considered safe.

### Easy to deploy

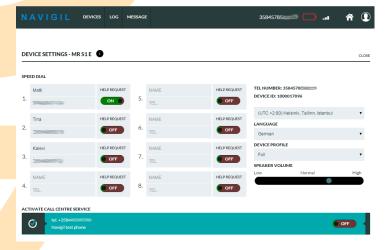
Navigil S3 comes with a SIM card pre-installed - simply configure the phone numbers and Navigil S3 is ready to go. Navigil S3 has profiles and configurations for various type of use cases. Richness of the user interface and default settings for each use case can be defined in a configuration.

## NAVIGIL

### S3 Personal Safety Wristwatch

### Industry benchmark footprint and functionality

Communication  SMS, FTP, HTTP, TCP, UDP, USSD  Receiver type  GPS/GLONASS receiver, SBAS WAAS/EGNOS/MSAS support  Sensitivity  Acquisition -148 dBm, navigation -162 dBm  A-GPS  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  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 1 - 4 days, depending on use 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  Red Alert  Watch wearer initiated Red Alert call to Alarm Receiving Centre  Watch wearer initiated Amber Alert call to recording service  Watch wearer initiated Amber Alert call to recording service  Watch wearer initiated Amber Alert call to recording service  No movement, man down, danger zone entry (beacon)  Other alarms  Battery critical, battery low	Mobile comms	Modem type	Tri band 3G/GSM/GPRS/EDGE/UMTS/HSPA+ (EU and US versions)
GPS/GLONASS receiver, SBAS WAAS/EGNOS/MSAS support Sensitivity   Acquisition -148 dBm, navigation -162 dBm	WOOME COMMIS	• • • • • • • • • • • • • • • • • • • •	
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DimensionsS3Diameter 48 mm, thickness 17 mm, weight 65 gr. (normal strap)BeaconsCharging dockEasy to use charging dock with beacon functionality	Available versions	<b>S</b> 3	
Beacons Charging dock Easy to use charging dock with beacon functionality	Enclosure	<b>S</b> 3	Splash water protected, standard strap, 22 mm interface
	Dimensions	S3	Diameter 48 mm, thickness 17 mm, weight 65 gr. (normal strap)
Battery beacons Indoor location information	Beacons	Charging dock	Easy to use charging dock with beacon functionality
		Battery beacons	Indoor location information



### Key features are:

- Mobile phone with speaker and microphone
- Status of wearer's location: at home or GPS location
- Alarm on of beacon range and safe zone exits
- Activity statistics can be used to identify changes in wearer's daily routines

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