

LivOn

CARE IN ADVANCE

Life logger for neurological disorders diagnosis through big data.



CARE IN ADVANCE

Life logger for neurological disorders diagnosis through big data.
LivOn system's capability and the family and the caregivers' receptivity will provide
the most significant relief for your loved ones with regard to their care.



Hidea Solutions Co., Ltd.

Address. 3, Ahasan-ro, Seongdong-gu, Seoul, KOREA

E-mail. sales@hidea.kr Tel. +82-2-6203-6500 Fax. +82-2-6203-6502

LivOn
CARE IN ADVANCE



**SAFETY AND PEACE OF MIND
FOR YOU AND
YOUR LOVED ONES!**

WHAT IS LivOn? TELECARE AND TELEHEALTH SERVICE

LivOn provides advanced care services by transmitting various alert protocols via smart monitoring of seniors and people with disabilities.

24/7/365 care service

LivOn monitors potential emergency cases through automatic identification of significant changes during activities of daily living via activity detectors and environment sensors. It also provides proactive actions and emergency alarm for caregivers and family members.

Everyday peace of mind for the family

The SMS alert service relays the user's daily activities and health condition to the family who is unable to check on their loved one on a daily basis. Weekly and monthly reports will show the history of the user's mobility pattern to the family in order to prevent emergency cases.

Emergency alarm and call service

The Help trigger and "Help" button will notify emergency centers, caregivers, service companies, or family members directly for an emergency response. The emergency alarm directly sends an alert message to the user's family via call or SMS.

Daily health care service for the users with chronic disease

It ensures the stability of the user's health. The daily monitoring of the user's mobility will allow the medical professionals to provide the user with proper care and assurance to the family members.

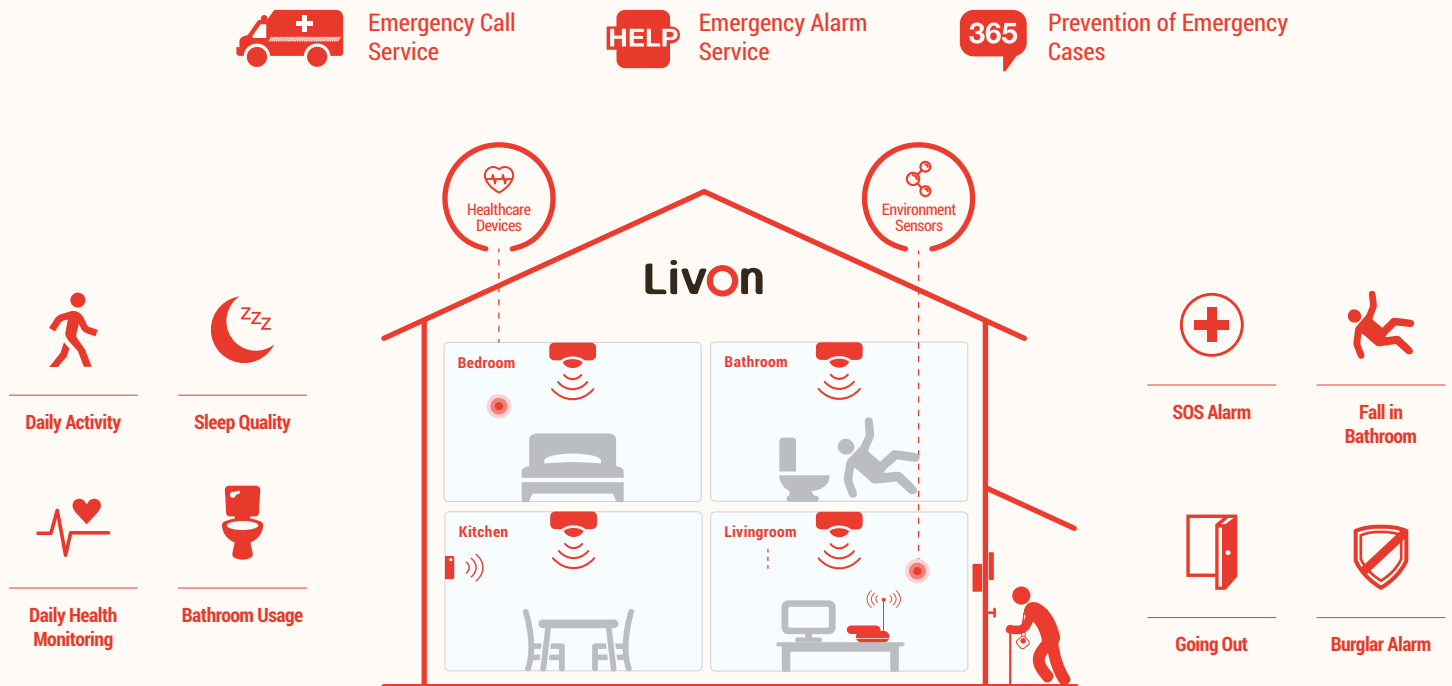
ACTIVITY INDEX ANALYSIS SYSTEM FOR 24/7/365

Check and monitor your loved ones or beneficiaries for caregiver parties daily/monthly/yearly activity index from the bathroom, kitchen, living room, and bedroom via PC or smart phone.



HOW DOES LivOn WORK?

The LivOn wireless base unit and sensors are installed in the user's house and connected with the service platform via mobile network (LTE/WCDMA/GSM).



LivOn Care Solutions

Total Platform for Telecare and Telehealth



PROTECTION AND CARE FOR 24/7/365

Let's look into some of the real interview cases from the users of LivOn!



"During a business trip, I received a 'Fall warning' SMS. I was so worried and called her and found out that she was taken to the hospital and in good condition just from pressing Help Trigger from LivOn."

FAMILY MEMBER

"I have 100 members under my care that makes it hard to check on everyone all at once. But after learning about LivOn services, it allows me to monitor everyone more efficiently and perform my job diligently"

CARE GIVER FROM 'H' MONITORING CENTER

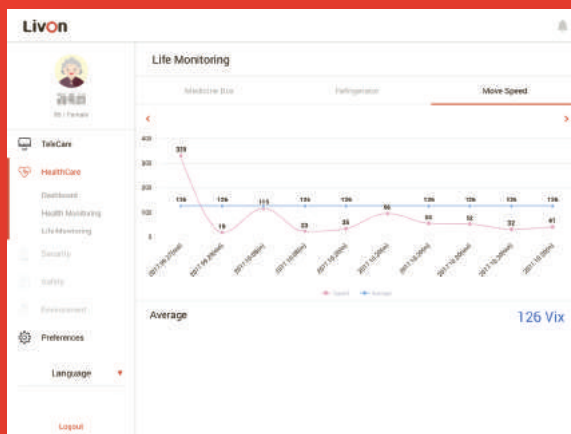


"My mother is a patient with early-stage Parkinson's disease. LivOn monitors my moms tendencies such as movement patterns, bathroom usage, sleep quality, and etc that provides vital information for doctors to determine best diagnosis and treatment."

MEDICAL PROFESSOR & FAMILY MEMBER

LivOn TELEHEALTH SERVICE

Hidea solutions is conducting a project that will provide customized care services for patients with major chronic mental diseases via early prognosis.



PARKINSON PATIENT DAILY ACTIVITY



ALZHEIMER PATIENT DAILY ACTIVITY

Innovative health services for health care professionals are developed in order to help them in monitoring the patients who are suffering from **chronic neurological and psychiatric disorder**. (e.g., Alzheimer, Parkinson, depression, epilepsy, etc.)

Commercial services are provided for **medical institutions, organ protection, visiting nurse services, etc.**

A reliable solution was developed through the clinical verification of prediction and assessment algorithms.

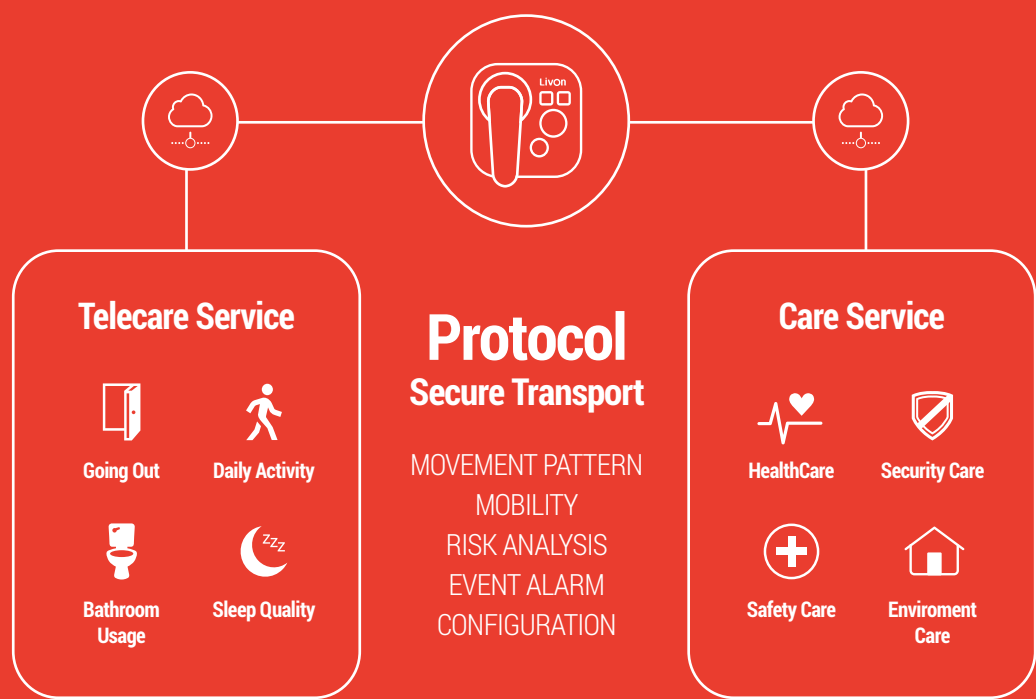
The daily activities of patients with Alzheimer's disease show that the night-time and day-time activities have similar amounts of activities.

TELECARE SERVICE PLATFORM

LivOn Telecare Service Platform (TSP) is an S/W solution for care organizations, family members, and beneficiaries. LivOn provides an adaptable service platform that includes applications and smartphone apps for the most effective and efficient use of LivOn products.

TSP Service

LivOn TSP Server is a service application for Telecare service operations. TSP retrieves the user's movement pattern, mobility, and health data. It analyzes the information so that it can predict the user's health condition and risk through the web and app.



TSP Types

TSP has 3 different types of service, namely, Adapter, Core, and All-in-One. TSP Adapter is for a partner with their own developed server, platform, and DB that are only compatible with LivOn devices. The partner who wants to design UI/UX to provide their own service (web and app services) will need the TSP Core. The TSP All-in-One exclusively provides LivOn devices that utilize the LivOn TSP 3.0 service platform with optimized DB for all the customers.



TSP WEB

LivOn TSP provides web applications for care organizations, employee monitoring, and families of beneficiaries. This web application enables the users to manage the entire Telecare service with related parties.



Caregiver Applications

- User administration
- Device management (configuration and operation)
- ADL (Activity of Daily Life) monitoring
- Health data monitoring
- Emergency management
- System administration



Family Applications

- ADL (Activity of Daily Life) monitoring
- Health data monitoring
- Emergency alerts and reports

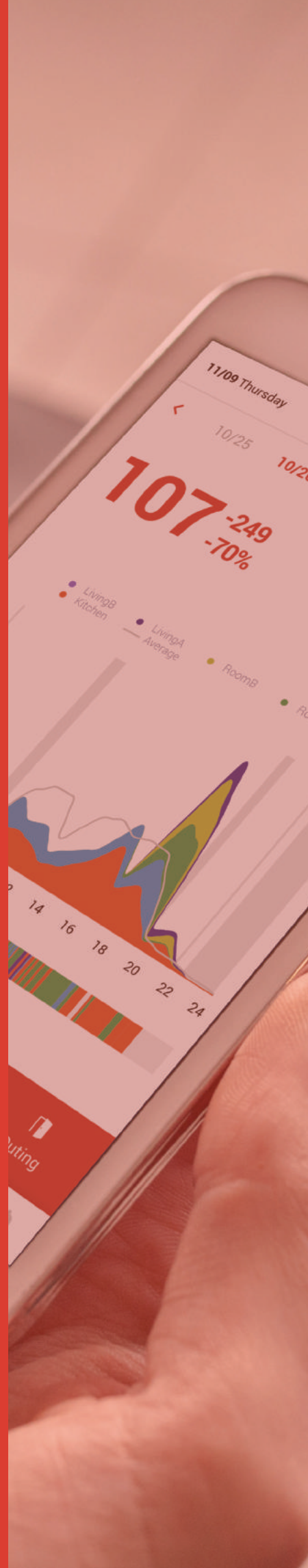
TSP APP

LivOn TSP App is an easy and intuitive smartphone app for the families of the users. This app monitors the condition of the user.



Family Applications

- ADL (Activity of Daily Life) monitoring
- Health data monitoring
- Emergency alerts and reports
- Device configuration and user preference



TELECARE BASE UNIT

Base Unit works on mobile networks (LTE/WCDMA/GSM). It has a robust data throughput. LivOn supports Telehealth beyond Telecare, as well as the safety and environment care. There is no need for a wireline telephone network. LivOn Base Unit has a crystal-clear sound system. Just plug it into a power outlet and it will start working.

LivOn's microphone and speaker are tuned to pick up and produce the best sound quality.



Innovative Technology and Design

Bluetooth connectivity for health devices
Superior-quality microphone and speaker
Fast firmware update through a wireless network without the need for a field engineer
Focused on UD (Universal Design-acquired Good Design Certification in Korea, iF Design Award) with a silicon material to enhance its convenience for the elderly people

Increased Reliability and Safety

Guaranteed connectivity at all times
Up to 12 hours of rechargeable battery backup with low battery alarm
Both audio (voice) and visual warning signals (multi-language support)
Periodic and server request operation status report

Error Self-detection and Management

Battery condition control
Power cut detection
Radio interference detection
Automatic H/W resetting capability when a S/W error occurs

Supports Cryptographic Algorithms

AES, Triple DES, and SHA with HMAC
HW cryptographic acceleration
True random number generator



SPECIFICATIONS

NETWORK

COMMUNICATION INTERFACE

POWER

BACKUP BATTERY

SPEAKER & MICROPHONE

DIMENSIONS (WXHxD)

LTE / WCDMA/GSM

ZigBee: IEEE 802.15.4 ISM 2.4 GHz

Bluetooth Smart, Wi-Fi: IEEE 802.11 b/g/n 2.4 GHz(optional)

DC 5V/1A power adaptor (AC 100-240 V, 50-60 Hz)

Built-in rechargeable 3,100mAh Li-ion battery

Internal speaker and microphone (approx. 20m away from the base unit) and handset

194x194x44 mm / 585g

ACTIVITY DETECTOR

Activity Detector is a key component of monitoring systems for potential emergency cases. It enables caregivers, service companies, and public organizations to improve their efficiency.

Enhanced Connectivity and Operation

Collects data for every set time
Transfers the collected data to the Telecare Base Unit within each set time
Periodic two-way communication with the Telecare Base Unit to check the operational status (e.g., configuration info, battery level, and transmission cycle)

Increased Reliability and Safety

Up to two years of battery life
Low-battery indicator
Embedded temperature and humidity sensor (optional)

Innovative Technology and Design

Different design from the other conventional motion sensors in order to reduce the feeling of "I am watching you!"
120° omnidirectional detection
Low power consumption for battery operation



SPECIFICATIONS

DETECTION METHOD

Passive Infrared

COMMUNICATION INTERFACE

IEEE 802.15.4 ZigBee ISM 2.4 GHz

COMMUNICATION RANGE

Up to 70m Line of Sight from the Telecare Base Unit

POWER

Unit 4 AA alkaline batteries

DIMENSIONS (WXHxD)

86x86x46 mm / 114 g (battery is not included)

HELP TRIGGER

Help Trigger is designed as a great companion that provides immediate assistance to the user at the press of a button. You can choose from two designs (pendant or wristwatch) depending on your preference. Help Trigger is waterproof, so you can use it anywhere. It also has a long battery life, which makes it comfortable to use.

Enhanced Connectivity and Operation

Sends push-button notifications to the Telecare Base Unit
Periodic two-way communication with the Telecare Base Unit
for checking the operational status(e.g., configuration
info, battery level, and transmission cycle)

Increased Reliability and Safety

Up to two years of battery life
Water resistant
Low-battery indicator

Innovative Technology & Design

Compact device designs with our own technical expertise



SPECIFICATIONS

COMMUNICATION INTERFACE	IEEE 802.15.4 ZigBee ISM 2.4 GHz
COMMUNICATION RANGE	Up to 70m Line of Sight from the Telecare Base Unit
POWER	Unit 1 CR2032 coin cell
ACCESSORIES	Necklace and wrist band
ADDITIONAL FEATURES	Dust and Water Resistant (IP65)
DIMENSIONS (WXHXD)	30x30x10 mm / 12 g (battery is not included)

DOOR DETECTOR

Door detector can be attached to the door, as well as other indoor objects that can open and close. It sends a notification when the user is going out or coming in. It also monitors unexpected events.

Enhanced Connectivity and Operation

Sends a door detection message to the Telecare Base Unit
Periodic two-way communication with the Telecare Base Unit to check the operational status (e.g., configuration info, battery level, and transmission cycle)
Easy to install and use

Increased Reliability and Safety

Up to two years of battery life
Low-battery indicator

Innovative Technology and Design

Easy installation on doors, windows, or other moving objects



SPECIFICATIONS

DETECTION METHOD

Magnet

COMMUNICATION INTERFACE

IEEE 802.15.4 ZigBee ISM 2.4 GHz

COMMUNICATION RANGE

Up to 70m Line of Sight from the Telecare Base Unit

POWER

Unit 2 CR2450 coin cell

DIMENSIONS (WXHxD)

71.6x42.8x17 mm / 49 g (battery is not included)

FIRE DETECTOR

Fire Detector can detect smoke and emit an emergency alarm with automatic notification to caregiving parties. S800 detects both smoke and heat to increase accuracy and avoid false alarms.

Enhanced Connectivity and Operation

Sends a fire detection message to the Telecare Base Unit
Periodic two-way communication with the Telecare Base Unit to check the operational status such as the configuration info, battery level, and transmission cycle

Increased Reliability and Safety

Ten-year battery life
Low-battery indicator with a voice warning
Test button for operations checking with a report to the Base Unit for status logging

Innovative Technology and Design

Long battery life
With the built-in speaker, a warning voice alarm can be generated for the battery level, connectivity status, and fire detection.
Can operate even if not connected to the Base Unit (no detected data transfer to the Base Unit).



SPECIFICATIONS

DETECTING OBJECTS
COMMUNICATION INTERFACE
COMMUNICATION RANGE
POWER
DIMENSIONS (WXHXD)

FD S790

Smoke
IEEE 802.15.4 ZigBee ISM 2.4 GHz
Up to 70m Line of Sight from the Telecare Base Unit
Built-in lithium battery
100x100x41 mm / 165 g (battery included)



FD P800

Smoke and heat
IEEE 802.15.4 ZigBee ISM 2.4 GHz
Up to 70m Line of Sight from the Telecare Base Unit
Built-in lithium battery
100x100x41 mm / 165 g (battery included)



GAS DETECTOR

Gas Detector G771(LPG) & G772(LNG) can detect the gas leakage and emit emergency alarms with automatic notifications to caregiving parties.

Enhanced Connectivity and Operation

Sends a gas detection message to the Telecare Base Unit
Periodic two-way communication with the Telecare Base Unit that checks the operational status such as the configuration info, battery level, and transmission cycle

Increased Reliability and Safety

Test button to verify operational reports to the Base Unit for status logging
Can report power connectivity cuts to the Base Unit

Innovative Technology and Design

With the built-in speaker, a warning buzzer alarm can be generated for gas detection.
Can operate even if not connected to the Base Unit (no detected data transfer to the Base Unit).



SPECIFICATIONS

DETECTING OBJECTS
COMMUNICATION INTERFACE
COMMUNICATION RANGE
POWER
DIMENSIONS (WXHxD)

GD G771

LPG
IEEE 802.15.4 ZigBee ISM 2.4 GHz
Up to 70m Line of Sight from the Telecare Base Unit
Unit 12V DC
76x113x44 mm / 320 g

GD G772

LNG
IEEE 802.15.4 ZigBee ISM 2.4 GHz
Up to 70m Line of Sight from the Telecare Base Unit
Unit 12V DC
76x113x44 mm / 320 g

GAS SHUTOFF DEVICE

Working with gas detectors G771 and G772 or independently.
Gas Shutoff Device turns off the physical gas valve to
stop any additional gas leakage.

Enhanced Connectivity and Operation

Periodic two-way communication with the Telecare
Base Unit to check the gas valve status data(on/off/jammed)
and the operational status such as the configuration
info, battery level, and transmission cycle

Increased Reliability and Safety

Battery life up to two years
Low-battery indicator
Test button for gas valve shutoff action with reports to
the Base Unit for status logging

Innovative Technology and Design

Can operate even if not connected to the Base Unit
(no detection data transfer to the Base Unit)



SPECIFICATIONS

SHUT OFF METHOD

COMMUNICATION INTERFACE

COMMUNICATION RANGE

POWER

DIMENSIONS (WXHxD)

Motor Drive

IEEE 802.15.4 ZigBee ISM 2.4 GHz

Up to 70m Line of Sight from the Telecare Base Unit

Unit 4 AA alkaline batteries

86x86x46 mm / 165 g (battery not included)



LBS TRACKER

LBS Tracker is a compact, convenient and portable LBS terminal device that can support long stand-by time up through its built-in battery. The SOS button can trigger a loud alarm and automatic location beacon to pre-fixed phone numbers in an emergency. It has GPS, Wi-Fi and Bluetooth support for more accurate location information.

ABOUT LBS TRACKER

Location tracking solution with
GPS/Wi-Fi/Bluetooth

Sending location data to pre-fixed
phone numbers in an emergency

SOS Key, Power Key

Power & GPS LED Indicators

Micro USIM



SPECIFICATIONS

NETWORK	WCDMA, GPS, Wi-Fi, Bluetooth
BASEBAND CHIPSET	Qualcomm(QSC6270)
GPS	S-GPS / A-GPS
ANTENNA	Internal Antenna
BATTERY	Non Removable 700mAh (Li-ion)
POWER	3.7V / 1A
DIMENSIONS(WXHXD)	54x83.5x16mm / 50g