inVirtus
TECHNOLOGIES

SUMMARY

- About inVirtus
- An end-to-end solution : Hardware, Software & Connectivity
- Construction use case ; Indoor geolocation : Anchors & Beacons
- Construction use case ; Outdoor geolocation : Trackers
- inVirtus Cloud
- inVirtus App
- Benefits
- What’s next

Who we are

Developper and integrator of **IoT solutions** dedicated to **indoor & outdoor Asset Tracking.**

End-to-end turnkey solution
1- Tracking device
2- open and scalable supervision software suite.

Sectors :

They trust us :

THALES
ALSTOM
LA POSTE
ENGIE
naotic technologies utiles
CHANTIERS DE L'ATLANTIQUE
NAVAL GROUP
VOLVO TRUCKS
Novatech Technologies
AIRBUS
stryker A Global Leader in Medical Technology
SNCF
GiFi des idées de Génie !
IDEA GROUPE

Founded in 2018,

20p, Nantes

Expert of indoor & outdoor

All in 1 partner : Hw & Sw

+25.000 connected objects

Made in France

Issues addressed :

The needs in traceability are increasing everyday, whether to optimize your production flow or to monitor your asset movements on different plants. These kind of pains can easily be resolved with IoT solutions.

Lost or stolen Assets

- Waste of time searching
- Unnecessary investments

Low visibility of Assets' movements

- Poor optimization of asset uptime
- Double investment in containers

inVirtus : an end-to-end solution

inVirtus is one of the few market players offering a complete solution : hardware, software, connectivity, and integration to customers' systems

INDOOR

Your Assets

BLE Tags

inVirtus anchors

inVirtus Cloud :

INDOOR & OUTDOOR

Your Assets

inVirtus™ Trackers

Indoor geolocation

Objective : Traceability of small equipment, toolbox, screwdriver, drill, ...

ivBeacon Lite

Fixed on each case.
Follow in real time your asset at home and on your work site.

ivScan Chronos

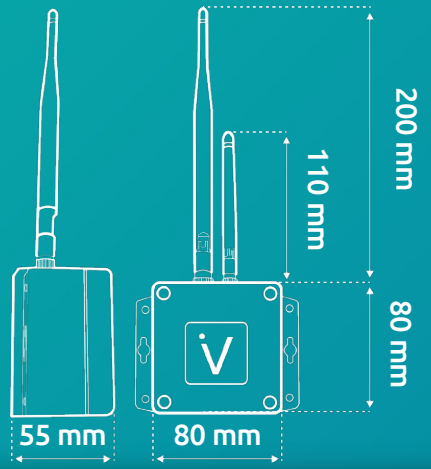
Generate zones allowing you to set up your equipment and transmit information in real time.

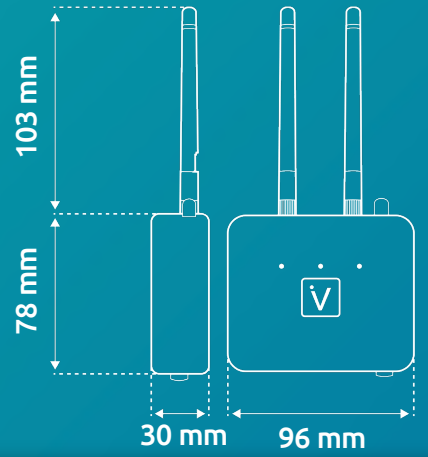
Issues :

- Administrative burden to validate delivery to the job site.
- Loss of time in the inventory.
- Poor visibility on the quantities in stock in your warehouses.

Indoor Geolocation : Create zones up to 50m with inVirtus Anchors

Weight : 288g
Battery life : 10 years
Communication protocole : MQQTs
LORAWAN class A : 868 Mhz
BLE / LoRa antenna : Omnidirectionnal
Advantages :
- IP67
- Temperature : -40°C / +85°C



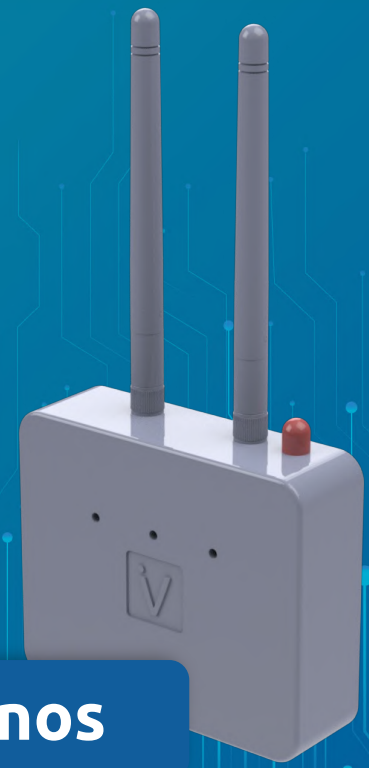


Weight : 122g
Set-up : Automatic
Power Supply : DC 5V, Micro-USB, PoE
Communication protocole : MQTTs
LORAWAN Class A : Omnidirectionnal
Advantages :
- Ethernet / Wifi connexion
- Temperature : -30°C / +70°C

- Up to 10 years autonomy
- Scanning : 1 200 beacons
- No wire required
- Scope range Up to 100 m

ivScan Athena

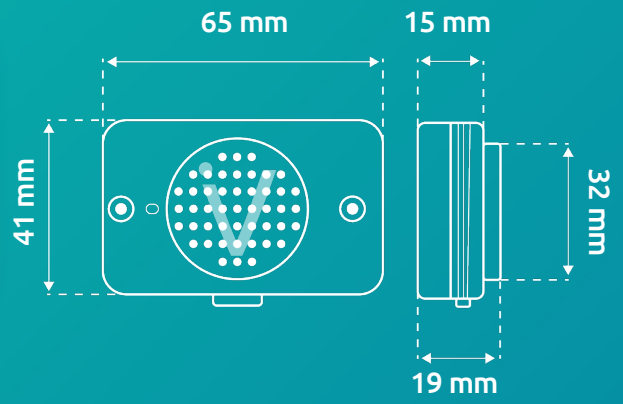
- Scanning : 10 000 tags per scan
- Connectivity : Ethernet / WiFi
- Plug & Play
- Scope range Up to 400 m

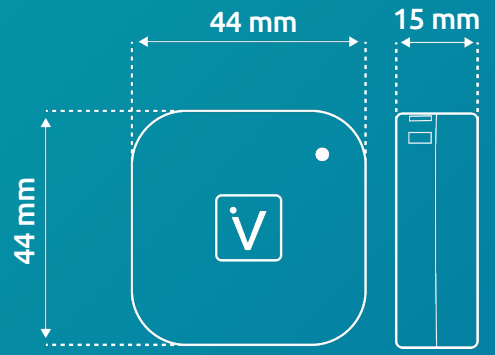


ivScan Chronos

Indoor Geolocation : Track your assets with inVirtus beacons

Bluetooth : BLE 5.3
Casing : Polycarbonate
Weight : 18g
Button / LED : On / Off
Scope : Up to 120m
Battery : LiMnO2





Bluetooth : BLE 5.3
Casing : Polycarbonate
Weight : 13g
Configurable LED : On / Off, Alarm…
Scope : Up to 120m
Battery : CR2477, 1000 mAh, 3V

- Battery Life
  Up to 6 years
- BLE
  Bluetooth Low Energy
- Buzzer
  100 dB
- Temperature
  -40°C / +60°C

ivBeacon Sonos

- Battery Life :
  Up to 10 years
- BLE
  Bluetooth Low Energy
- IP67 Waterproof
- Temperature
  -40°C / +85°C

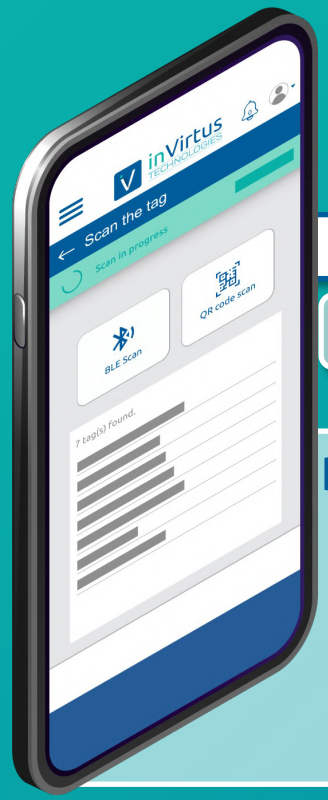
ivBeacon Lite

Outdoor geolocation

Objective : Follow-up of your small and large asset on your work sites.

ivBeacon Lite

BLE tag installed on each tool.
It allows to be scanned by the Tracker when entering/leaving your site.



inVirtus App

Scanning of incoming/outgoing products

ivTrack Evo

The InVirtus Tracker locates your assets.
It scans your devices contained on your site, avoiding forgetfulness and alerting of thefts.
A signal is sent to the platform to alert you..

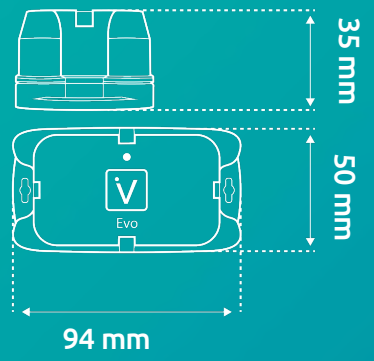
Benefits :

- Real-time proof of delivery to the job site
- Instant inventory on site and at the customer's location
- Reduce the amount of asset to be repurchased
- Optimization of your asset maintenance
- Statistics on rotation/utilization rates

Outdoor (+Indoor) Geolocation : Track your assets with GPS(+BLE) ivTrack Evo

ivTrack Evo

- Battery life : Up to 10 years
- Functionning Temperature : -40°C / +85°C
- Shock-resistant IK09
- Waterproof IP68
- Anti-Vandalism



Install
Plug & Play and World Wide

Hybrid technologies
Smart GSM (2G, LTE-M, NB IoT)

Omni-directional GNSS
Accuracy < 5 m*

Multi-GNSS fix mod
Normal, Dynamic, S&S

BLE Bi directional
BLE Transmitter & Receiver

Data recovery
160 GNSS fixes in memory

Configurable indicator
Activation of the LED following an event (e.g.: maintenance date reached, last phase of the OF validated...)

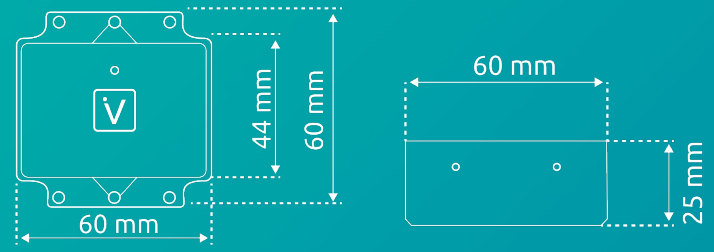
* in optimal conditions

- 3D accelerometer
- Buzzer
- Temperature sensor
- Remotely configurable
- Color panel

Outdoor (+Indoor) Geolocation : Suitable for installation in constrained environments

ivTrack Nano

- Battery life :
  5 years with 2 localization / day
- Functionning Temperature :
  -40°C / +85°C
- Shock-resistant
  IK09
- Waterproof
  IP66
- Anti-Vandalism



Install
Plug & Play and World Wide

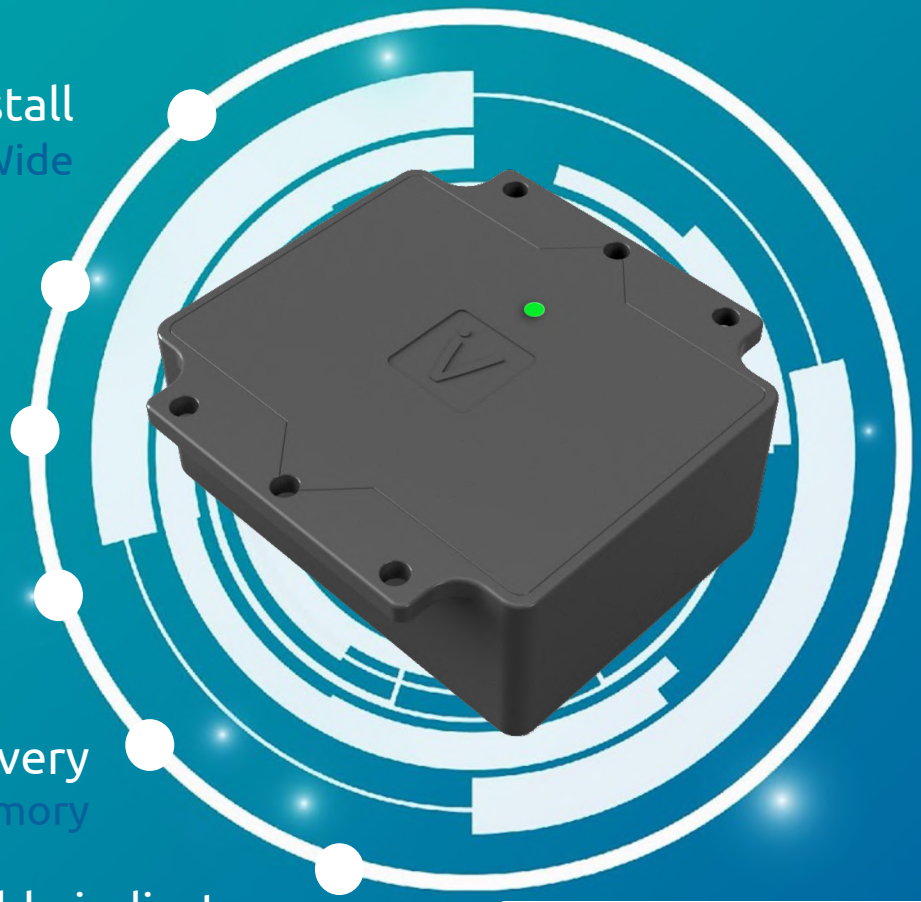
Multi-GNSS fix mod
GPS, GLONASS, Galileo & QZSS

BLE Bi directional
BLE Transmitter & Receiver

Hybrid technologies
Smart GSM (2G, LTE-M, NB IoT)

Data recovery
160 GNSS fixes in memory

Configurable indicator
Activation of the LED following an event (e.g.: maintenance date reached, last phase of the OF validated...)



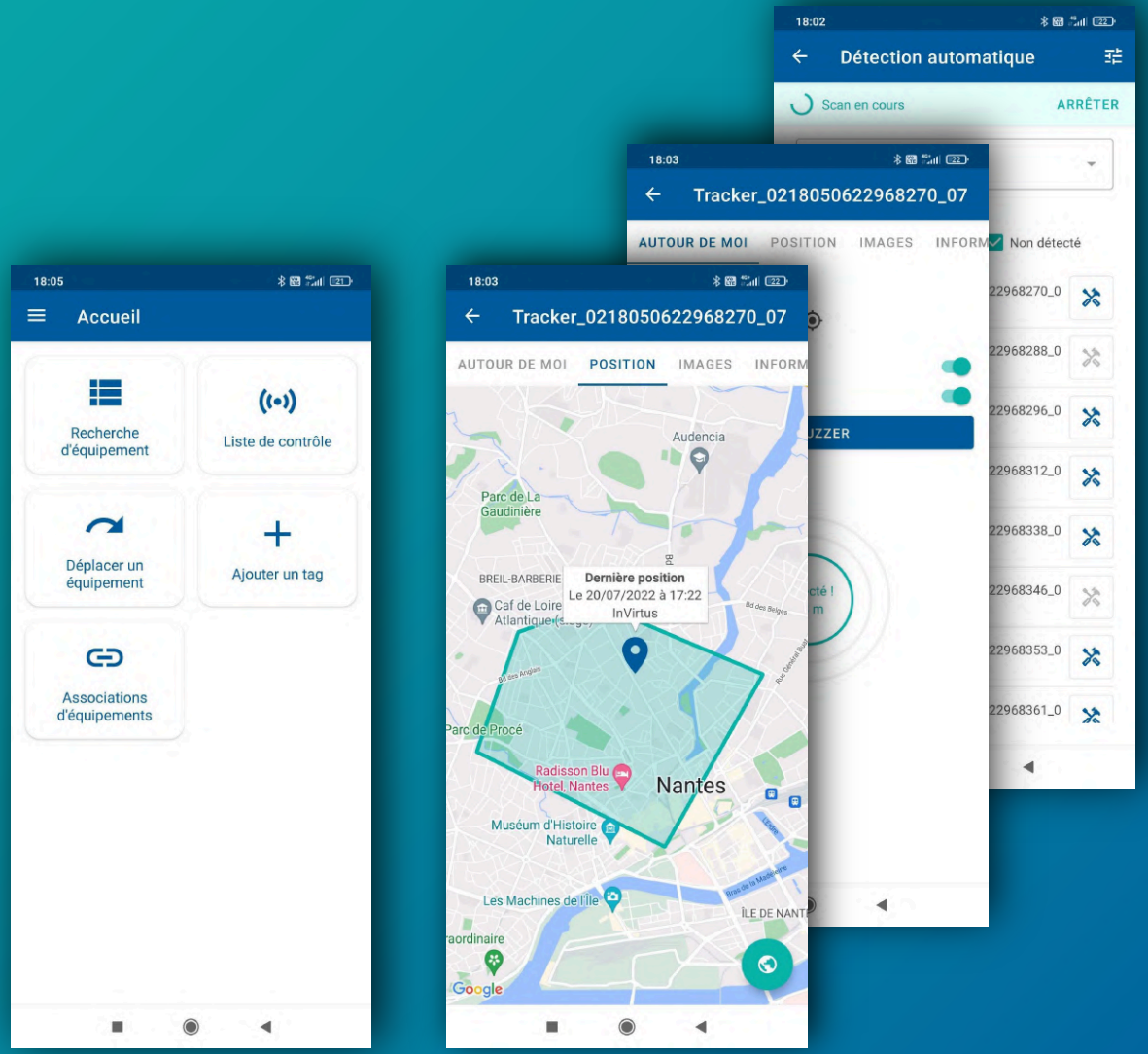
- 3D accelerometer
- Buzzer
- Temperature sensor
- Remotely configurable
- Color panel

inVirtus cloud plateform

- Locate immediately what you look for
- Achieve frequent, precise multi-zone inventories
- Create geofencing zones
- Set up alerts and be informed in case of unexpected events
- Retrace movements history
- Compare theoretic / real tack times
- Analyse rotations and identify bottlenecks
- Improve production flows, equipment allocation
- Optimize tool maintenance
- Choose your own indicator dashboard
- Push geolocation data to your own system (ERP, WMS...)

inVirtus Android App

- Pair / unpair asset to a beacon
- Locate immediately your asset
- Know your distance with the asset
- Activate the beacon LED / buzzer
- Edit the asset informations



inVirtus Solution : Benefits

Seamless Indoor & Outdoor geolocation

Easy integration with ERP and other 3rd-party systems

Easy plug & play installation : costly infrastructure required

1 single partner for a complete, simple and reliable solution

Expertise in Asset and Production Order Tracking, with process optimization features

Evolutive and innovative solution (Tag buzzer, solar panel, software monthly releases, …)

On-premise installation for highest data protection

What’s next ?

MEETING / VISIO / DEMO → **STARTER KIT** → **PoC** → **GO** → **MAINTENANCE**

Let’s meet for more information

inVirtus offers 2 starter kits (indoor / outdoor) for test purposes

A premium « starter kit » tailored to your needs, and the support of a project manager for set-up and training

Full deployment

inVirtus offers Long term support for mainteant, data analyses and process optimization

THANKS FOR YOUR ATTENTION

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