navvy

Smartwatch Designed for Professional Use

NIVY Watch
Combination of specialized hardware and software

At first, used mostly as personal fitness trackers, smartwatches are now finding their place in businesses.

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Collecting data to streamline critical operations, replacing workplace access cards, employee health and safety – these are just a few examples of diverse workflows that smartwatches can radically optimize.

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NIVY Watch is a unique combination of:

\   **professional smartwatch**

\   **specialized firmware**

\   **multi-charging station**

\   **cloud based Data Factory solution**

Industrial Watch

A powerful working tool and elegant everyday companion equipped with the latest smart technologies. Modern design, pleasant materials and easy operation can make NIVY Watch a standard device for every employee.
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Available for mass deployment in companies to improve their overall operational efficiency.

Suitable ergonomics

Our focus on ergonomic design resulted in a watch that's comfortable to wear through the most challenging work situations.
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Button location always facing the user is easily operated by a thumb even wearing heavy-duty gloves.
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This unique symmetric design of the watch body allows the user to wear the NIVY Watch on the wrist of either hand with the same ease of use.

Specialized firmware

The Android-based operating system has been accommodated to serve business customers and optimized for low battery consumption.
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The user interface provides only the necessary functionality in order to avoid user distraction with consumer applications at the workplace.
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The firmware also contains specialized applications that aggregate data from all available watch sensors and manage data transfer to the NIVY Data Factory. This function allows an audit of work activities based on pre-configured settings. Such an audit can help companies to better understand their work processes and subsequently increase work productivity, quality of goods and employee safety.

Use case
Indoor positioning

Equipped with specialized hardware and software, NIVY Watch identifies beacons that are a short distance away. The unique antenna allows precise measurements of the distance to a beacon. The software calculates time spent near the beacons and sends all the gathered data to the NIVY Data Factory for further processing and analysis.
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This particular functionality can serve as an employee indoor positioning system and can be used in various business scenarios.

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A single beacon can be used for specific item identification (e.g., machine, shelf, coffee machine, …); multiple beacons can be used for place identification (e.g., room, hallway, …).
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The watch can also raise an alert if an employee appears within a set distance from a specific beacon. This functionality can help increase work safety in dangerous areas. There are many other scenarios that can benefit from this functionality.

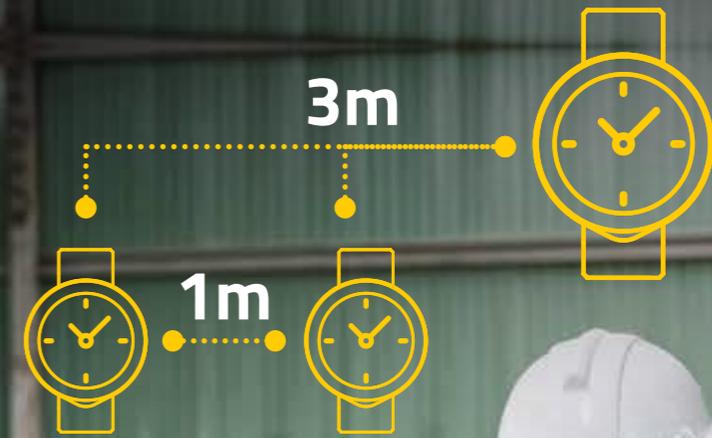# Scalable multi-charging station

Charge even hundreds of watches simultaneously with a unique modular charging station directly at your workplace, be it an office or a factory. Modular charging blocks offer nine charging docks, and each block can connect to another, both horizontally and vertically. You can design your charging station based on the number of required docks – and expand it effortlessly whenever needed.

Use case
Social distancing (COVID protection)

3m

1m

Specialized software, which is part of every NIVY Watch, provides a perfect social distancing solution at the workplace. It monitors all other watches that are present at a close distance for a critical amount of time. The distance and time is configurable.

The software archives such information from watches of all employees to the NIVY Data Factory. In the case of an individual's infection, management can quickly identify all other employees with the potential risk of contracting the disease. NIVY Watch can also raise an alert to a user every time two watches appear too close to each other for an undesirable period of time.

Interactive custom apps

NIVY Watch runs Android OS. It can be expanded with custom apps providing more value to specific professions. Such an interactive application can significantly increase the productivity of workers and optimize the work processes of the entire company.
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Apps can be developed in a multi-experience developer platform by Resco. Alternatively, developers can use well-known tools such as JAVA, or Xamarin.
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For better comfort, we created a table-top charger that also serves as a practical dock for developers when connecting to the computer. Thanks to the tilted docking platform, you have an easy line of sight and can immediately sync & see any software changes on your watch's display.

Use case
Work activity app

In some situations, the employer needs to have detailed information about the work activities that employees are just performing or have done in the past. NIVY Watch has a dedicated application for this purpose. The app provides a simple user interface enabling the user to select a work activity from a list. The current activity is always visible, and the user can easily change the recorded activity by a simple edit.

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Automatic activity detection can also be applied based on location positioning (beacons) or work activity patterns (accelerometer).

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The app links all the work activities with time stamps and sends all the captured data to the NIVY Data Factory. The NIVY Data Factory further provides a complete configuration of data as well as app logic.

NIVY Data Factory

NIVY Data Factory is a dedicated enterprise solution that allows you to effortlessly set up and manage all of your NIVY Watch devices and collected data in one place. We have built it on top of Resco Cloud proven technology, which has been implemented for thousands of enterprise customers worldwide.

\   **Configure watches** for individuals, teams, or the entire organization

\   **Automatically update** the watch firmware, apps, and download the collected data

\   **Manage the collected data** in the console's intuitive user interface

\   **Seamlessly integrate with third-party** systems, such as BI tools, data mining, AI, or general API functionality

Why smartwatches for business?

Monitoring daily habits and processes is an effective way to maximize productivity. The collected data – regarding work patterns, employee movement and physical condition, social distancing (as part of COVID-19 prevention), and more – will help you see where you can improve your operations. The data can be collected in anonymous or personalized mode to fulfill all GDPR and other local authority requirements for personal data manipulation.

There are multiple scenarios of how businesses can benefit from empowering their workforces with smartwatches**:**

\ **Company to employee communication,** including instant alerts

\ **Entering/leaving** company premises

\ **Measuring** the time spent operating machines, at the desk, on the move, on breaks, etc.

\ **Creating heat maps** of staff movement

\ **Location tracking** to see where the colleagues are and whether they're reachable

\ **Distance** covered & step count

\ **Accelerometer tracking** of manual work and hand movement to define optimal work pattern procedures

\ **Long-term health** monitoring of employees

\ **Stress monitoring** and health/accident alerts

\ **Social distancing** precautions regulation (COVID-19 prevention)

\ **Ensuring work** process safety
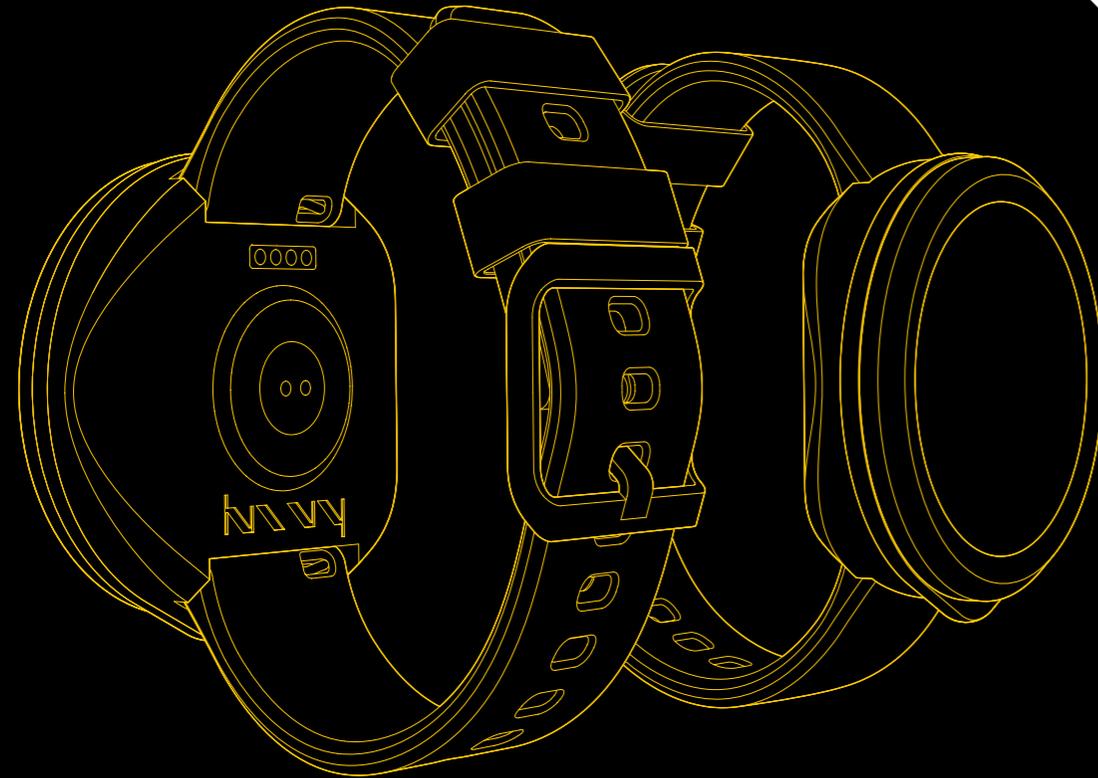
Start your journey with NIVY Watch

For your first encounter with NIVY Watch,

we're preparing a NIVY Watch Evaluation Kit,

available for Pre-Orders in November 2020.

NIVY Watch Evaluation Kit

\   1 piece of NIVY Watch Model N

\   1 piece of Developer Charging Dock

\   1 position of Multi-charging station

\   3 pieces of Beacons

\   1 instance of NIVY Data Factory Organization

Hardware specifications

Design	Unique Ergonomic Design Single Physical Button Touch Screen Interface
Case	48.0 mm diameter 16.8 mm thickness
Strap	22mm
Weight	38g without strap 59g with strap

Display	AMOLED touch screen 454 by 454 pixels, 372 PPI
Chipset	MTK 6739 1.25 GHZ quad-core processor
Memory	3GB RAM 32GB Internal memory
OS	Android 7.1.1
Connectivity	Wi-fi 802.11 a/b/g/n 2.4 GHz and 5GHz Bluetooth 4.0
Power	800mAh Battery Magnetic Charging Dock
Sensors	Heart Rate Pedometer & Distance Accelerometer Light sensor
Durability	IP67

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For additional details

& to reserve your

NIVY Watch Evaluation Kit

please contact us at:

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