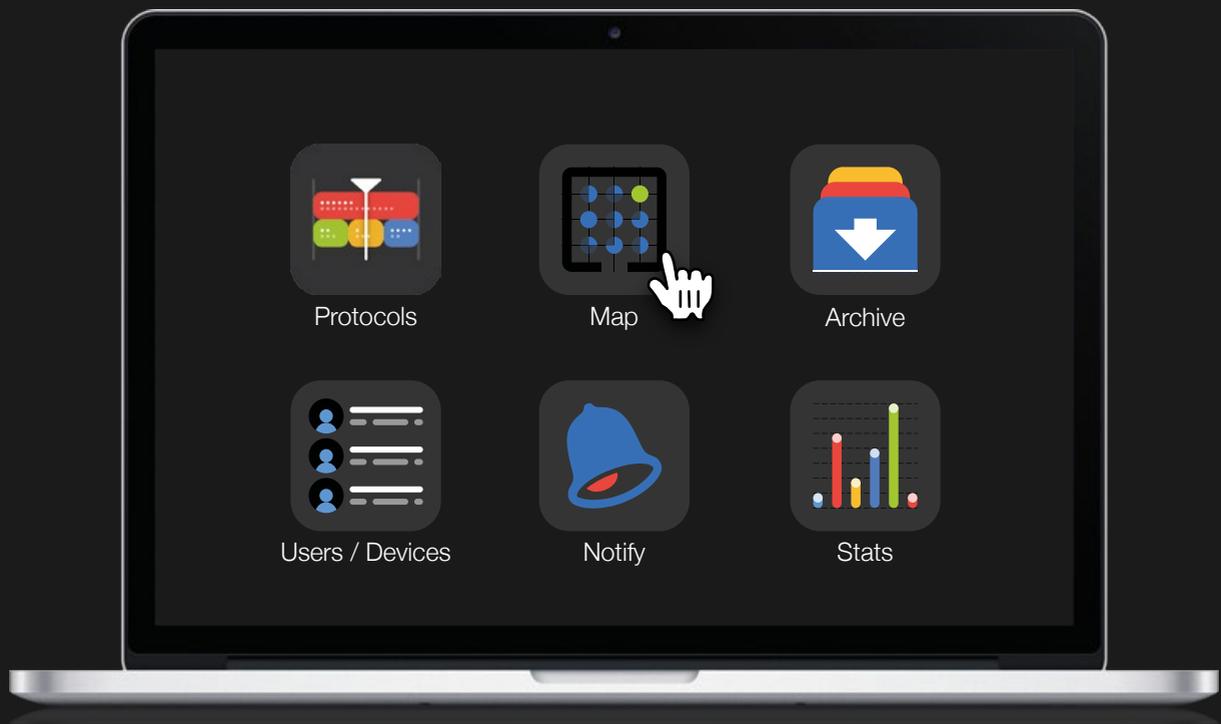




NANT Maestro



Facility. Processes. Operators. Records.

One simple yet powerful software to
manage and streamline your production
workflow.

NANT Systems are fully automated bioreactors available in your facility: define their processes **before**, monitor them **during** the execution and collect data **afterwards**.

All without even entering the cleanroom.



Facility

Keep your facility clean and controlled by optimizing processes and better manage operators access to the cleanroom.



Processes

Define your processes fast, optimize them even faster, easily outline clear and controllable instructions while improving consistency.



Operators

Maximize your operators' performance by providing them tools that enhance workflow efficiency and ensure the quality of cell therapy products.



Records

Access complete in-process information and history data faster than ever to produce documentation without leaving your desk.

Meet NANT Maestro, a range of Apps that covers many hurdles of your job and helps ensuring an overall enhancement of the way you work and deliver. Another step towards cost-efficient manufacturing.

The perfect companion software to get the best out of your NANT Systems.

Plan **BEFORE** the Cell Culture



Design, test and refine your own automated protocols fast via a simple and intuitive interface that guides you through every step from seeding to harvesting.

Protocols

Complete autonomy. Create, tweak and refine every single parameter and sequence according to your needs.

Automatic versioning. Trace your design process without effort.

Error prevention. Define clear operations and instructions via an intuitive interface helped by animations and intelligent suggestions.

Quick Upload. Deploy all your protocols to your device pool with one simple click.



Create and manage user accounts for all the operators, group them in different teams, associate everyone to specific Bioreactors and determine everyone's access level.

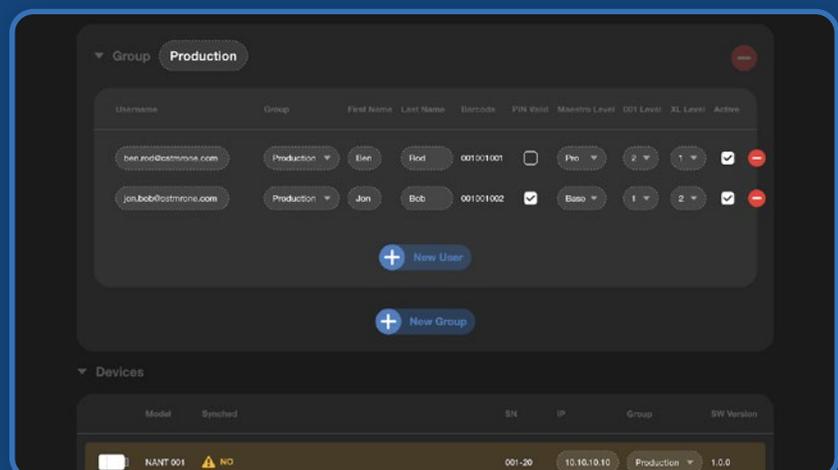
Users/Devices

Operator accounts. Easily manage all the user accounts via a centralized and convenient interface.

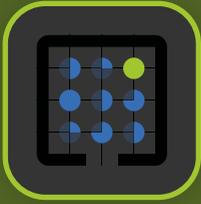
Teams. Group operators according to your internal organization and working teams.

Bioreactors association. Enhance traceability by determining which operators get to use which Bioreactors.

Access levels. Manage and keep track of data access by granting specific permissions.



Monitor **DURING** the Cell Culture



The status of all your devices. Live. At a glance. Promptly monitor the progress of all your ongoing processes without even leaving your desk.

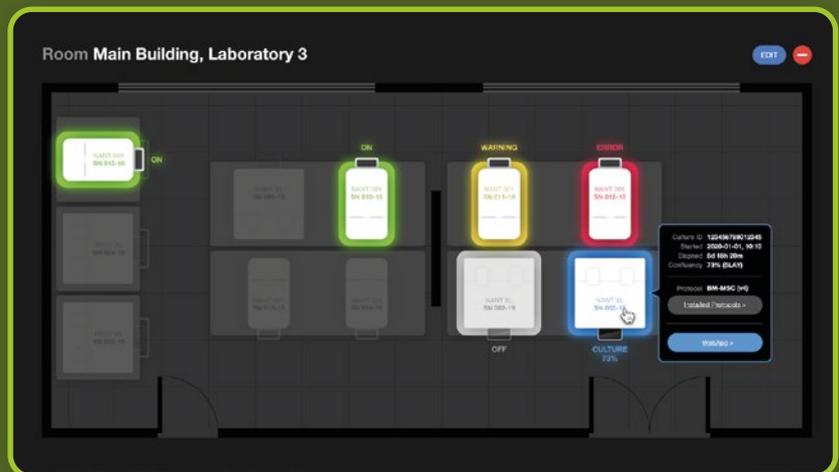
Map

Centralized monitoring. Quickly understand the status of your device pool via one simple screen.

Minimal cleanroom access. Save time and better preserve your facility and products.

In-process data. Access a complete and detailed list of information about all your ongoing cell cultures.

Process deviations. Promptly detect possible deviations and accelerate your response time.



Receive active notifications from the cleanroom so you can rapidly intervene when your presence is really needed.

Notify

E-mail and SMS. Actively receive notifications from your devices when your presence inside the cleanroom is really needed.

Expected/Unexpected. Devices can automatically notify you in case of both expected interventions and unexpected process behaviours.

Cleanroom access optimization. Determine which operators receive which notifications to minimize cleanroom access.

SN	Group	Group	Errors	Warnings	Notifications	E-mail	SMS
022-19	Production	mario.rossi@customer.com	<input checked="" type="checkbox"/>				
		ron.adam@customer.com	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		john.dalton@customer.com	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		hannah.irland@customer.com	<input type="checkbox"/>				
023-19	Production	mario.rossi@customer.com	<input checked="" type="checkbox"/>				
		ron.adam@customer.com	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
		john.dalton@customer.com	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		hannah.irland@customer.com	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Collect **AFTER** the Cell Culture



Archive

Ease backup operations. At the end of every cell culture, the process data stored on the hard drive of the Bioreactors can be automatically copied on one centralized location in order to effortlessly ease your own data backup operations.

Complete history. Access both the Cell Culture Report and the raw data of all your completed processes from one convenient, unified and searchable list.

Gather complete history information about all your processes via one convenient and centralized interface.

Culture ID	Started	Ended	SN	Protocol	Report	Log
X-00120-20200730-121623	2020-07-30, 12:16	2020-07-31, 12:16	001-20	ADM5C (v7)	Report	Log
X-00220-20200628-091043	2020-06-28, 09:10	2020-07-07, 14:51	002-20	H2O Test (v1)	Report	Log
X-00320-20200510-083000	2020-05-10, 08:30	2020-05-24, 18:45	003-20	CART T (v0)	Report	Log

Culture ID	Started	Ended	SN	Protocol	Report	Log
X-00120-20200730-121623	2020-07-30, 12:16	2020-07-31, 12:16	001-20	Test Two (v0)
X-00220-20200730-121623	2020-07-30, 12:16	2020-07-31, 12:16	002-20	Mesenchymal (v8)	Report	Log



Stats

Systems utilization. For each of your NANT Systems, measure key parameters such as Total Usage Time, Performed Cultures, Average Culture Duration and Used Cartridges.

Analysis. Understand the overall usage of your device pool in the perspective of planning your workflow and for optimization analysis.

Keep track of your NANT Bioreactors and Cartridges utilization in order to efficiently plan your operations accordingly.

SN	Total Usage	Performed Cultures	Average Culture Duration	Used Cartridges
001-20	102d 23h 59m	12	8d 11h 30m	12
002-20	30d 20h 20m	2	15d 10h 10m	2
003-20	208d 10h 40m	20	10d 6h 9m	20
	340d 23h 59m	34	11d 8m 15m	34

SN	Total Usage	Performed Cultures	Average Culture Duration	Used Cartridges
001-19	102d 23h 59m	12	8d 11h 30m	12
002-19	30d 20h 20m	2	15d 10h 10m	2

ORDERING DETAILS

Item	Catalogue Number
Users/Devices App	SW1010G
Protocols App	SW1020G
Map App	SW1030G
Stats App	SW1040G
Backup Service	SW1050G
Archive App	SW1060G
Notify App	SW1070G

ENQUIRIES AND SERVICE

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NANT Maestro is designed for Research purposes and any use for human therapy must be conducted under the full responsibility of the user.

vivabiocell.it/nantmaestro

