

Climats

SPIRALE VISION

COMPUTER-ASSISTED
ENVIRONMENTAL SIMULATION

CREATOR
OF EXTREME

▶ THE CLIMATIC REFERENCE



COMPUTER-ASSISTED ENVIRONMENTAL SIMULATION

SPIRALE VISION, A COMPLETE SOFTWARE SUITE

You have the absolute **control** of your equipment.

CLIMATS, precursor and expert in computer piloting systems, presents its new version of SPIRALE, combining use simplicity and ergonomics.

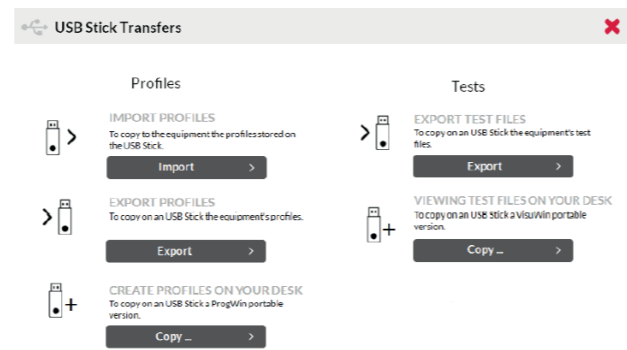
Since 1992, SPIRALE already pilots over 10 000 environmental chambers and tests benches all around the world.

Beyond a supervision system, SPIRALE VISION meets all your expectations :

- ▶ **An accurate and reliable piloting system** : real time interaction with multi-sensors data and optimized regulation algorithms.
- ▶ **A complete software suite** adapted to the needs of operators (programmes editor, tests archiving and exportation) and of maintenance staff (CLIMATS exclusive AUTOTEST, embedded maintenance indicators, explicit information about the chamber permanent status).
- ▶ **The user script (Climats exclusivity), a completely open system**, allows you to manage the multiple functions of your chamber. This tool has integrated help to carry out your own developments. The creation of automation and safety transforms your chamber into a real test bench.
- ▶ **There are many possibilities for hardware extensions.** Many upgrades are allowed by adding thermocouples, PT100 probes, inputs / outputs, a central acquisition unit, peripherals and MODBUS.

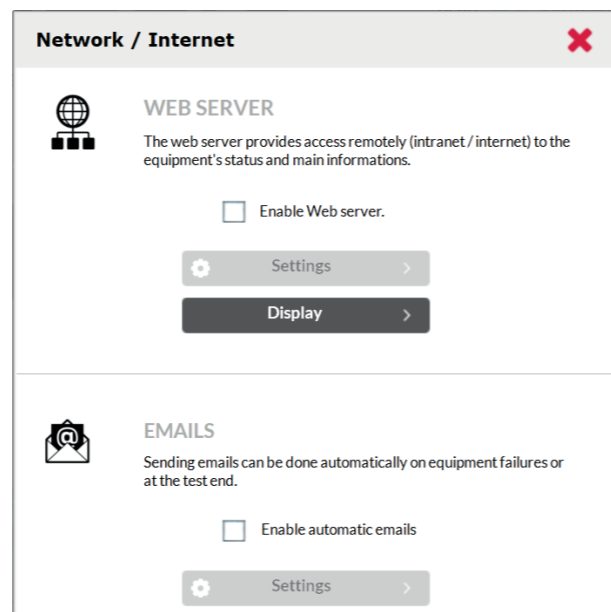
SPIRALE VISION, AN OPEN SYSTEM

The detection of your USB key is automatic !



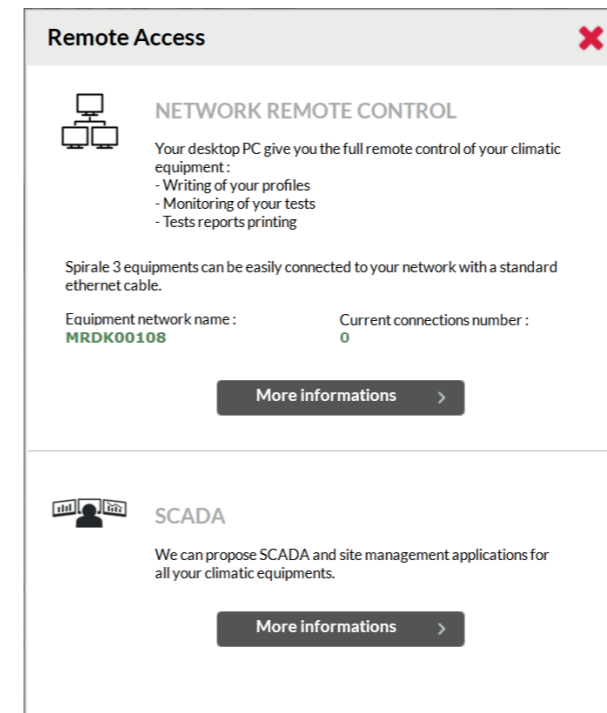
Two USB slots are available directly on the touch-screen.

A simplified internet connection.



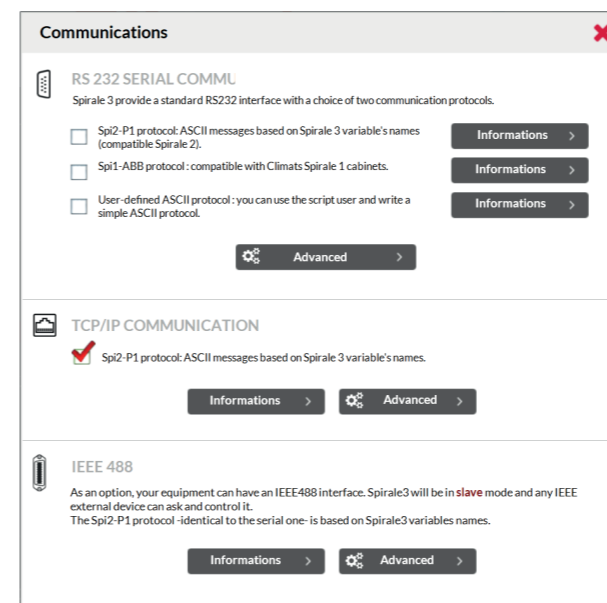
An integrated web server allows you to check the status of your equipment using any internet browser. In the event of an equipment alarm or at the end of the test, Spirale will automatically notify you by sending an email.

Immediate remote control on network



Exclusive to Spirale Vision, taking remote control of your equipment is as easy as creating a shortcut on the Windows desktop and you don't have to install anything on your desktop PC.

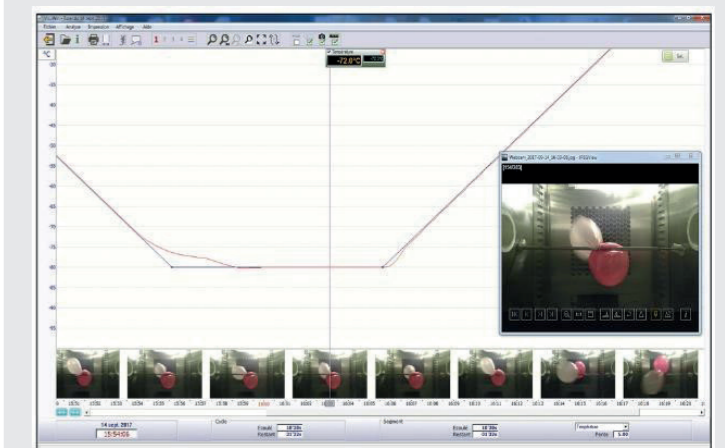
Chamber connection to measurement units, to TCP-IP/RS232/modbus/IEEE488 equipments.



SPIRALE VISION CAMERA

Spirale Vision for flawless traceability

You now have the possibility to periodically photograph your products during the tests thanks to the camera option, and to group them in photo galleries. The interval for taking photos is configurable.



▶ The proof by the picture: The recording of photo sequences shows the impact of the test on your product.



QR CODE READER

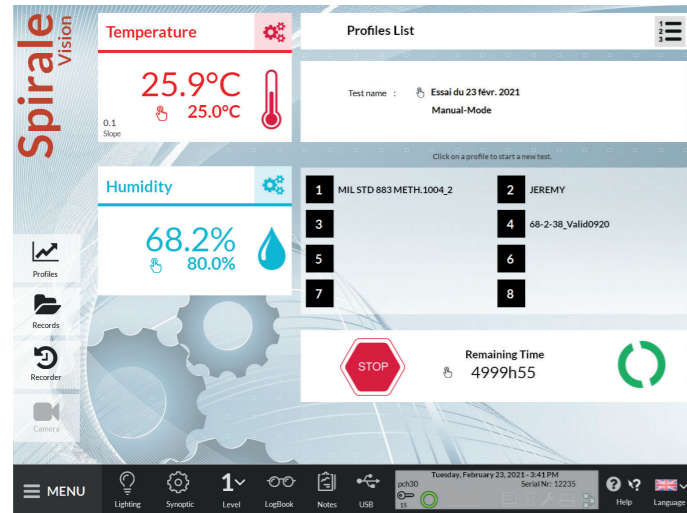
Your product is identified by reading the bar code and the QR-Code.

Another novelty, the connection to barcode readers is very simple and allows you to scan your products instantly.

SIMPLIFIED, SIMPLIFIED, UNIVERSAL, COMPLETE : SPIRALE OFFERS YOU 3 LEVELS OF USE

First level, the «Production» model

Carry out your tests in the safest and easiest way possible



Only one key to start and, at the end, archive the achieved test

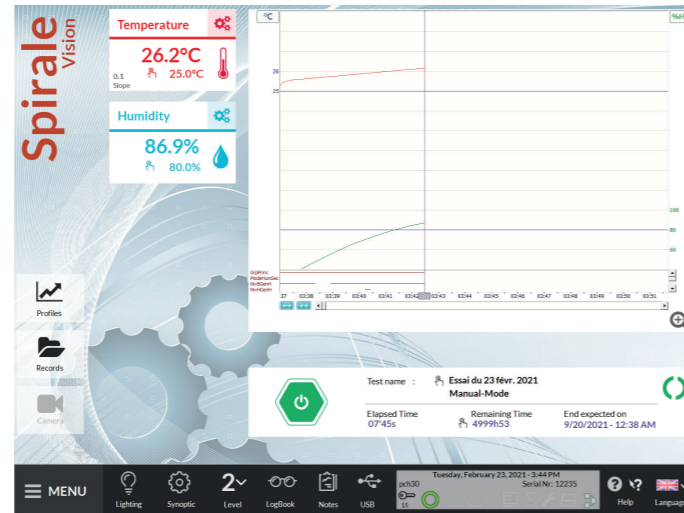
- ▶ Simplified access to the listed profiles
- ▶ «Direct» display of the functioning status
- ▶ Large visibility of the indicators
- ▶ Simplicity and reliability of use

- Temperature display : product probe regulation measurement and setpoint
- Humidity display : measurement and setpoint
- Display of the profile in progress
- Test duration indicator

- Direct access :
- recorder CycleWin
 - programme editor ProgWin
 - archiving VisuWin

Second level, the «Standard» model

Follow precisely your test progression in real time with the recorder CycleWin



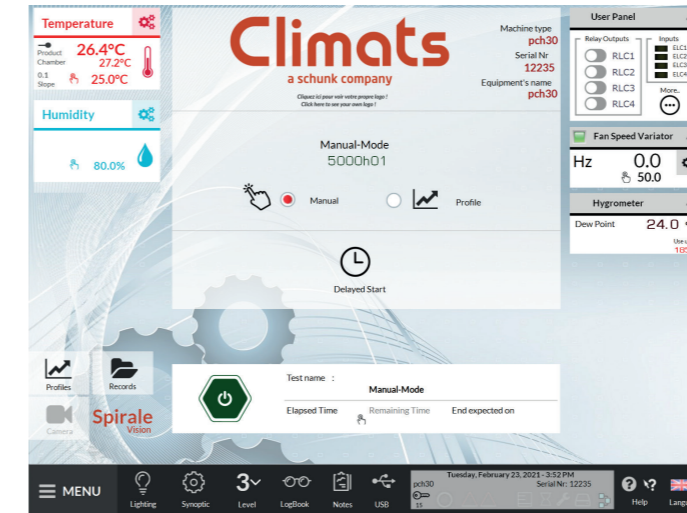
Choice of functioning in «manual» or «programme» mode

- Access to temperature and humidity parameters :
- ▶ mini-maxi safety
 - ▶ calibration
 - ▶ tracking alarm
 - ▶ product probe regulation

- Direct display :
- ▶ of the remaining time
 - ▶ of the elapsed time
 - ▶ of the test end date

Third level, the «Laboratory» model

The most detailed, the most elaborated model



Tests advanced management

- ▶ Gathers all functionalities of «production» and «standard» models, to which are added extensions such as **additional measurements and complex automatisms**
- ▶ Display of particular functionalities such as **safeties or automatisms**
- ▶ Access to equipment connected to the chamber such as **piloting systems or RS232 or IEEE488 additional measurements**

EASY TO USE

The 15 inches extra large touch-screen enables you to programme your tests with the finger tip.



A remarkable ergonomics :

- ▶ Pictograms and control panels with clear and argued display.
- ▶ Integrated multi-languages format software, without restart.
- ▶ Graphics of great sharpness.
- ▶ Customize the wallpaper with using the logo of your choice.

AN TRACKING ALARM

Temperature Tracking Alarm ✖

Tracking alarm allow a temperature regulation monitoring during your tests.

Enable tracking alarm control

DWELLS FULL SPEED ARRIVALS

Lower and higher limits are calculated according the figure below :

1 Stabilization duration : 10 minutes

2 Arrival maximum limit : ± 10.0°C

3 Stabilized maximum limit : ± 3.0°C

Set the alarm if temperature is outside the limit above during : 120 seconds

1 In 'stabilized' mode (dwells, ramps) the maximum difference is given par the value of (3).

TRANSITIONS CONTROL

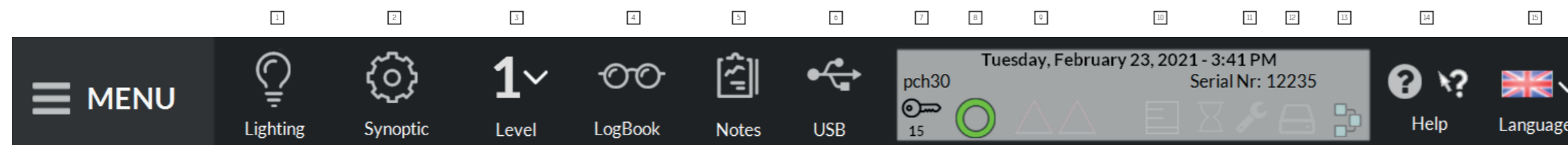
Temperature variation is periodically controlled : temperature must approach its setpoint each time.

Control temperature variation every : 5 minutes

ALARM MANAGEMENT

Only highlight the tracking alarm indicator in the control panel.

Generate a failure and interrupt the test.



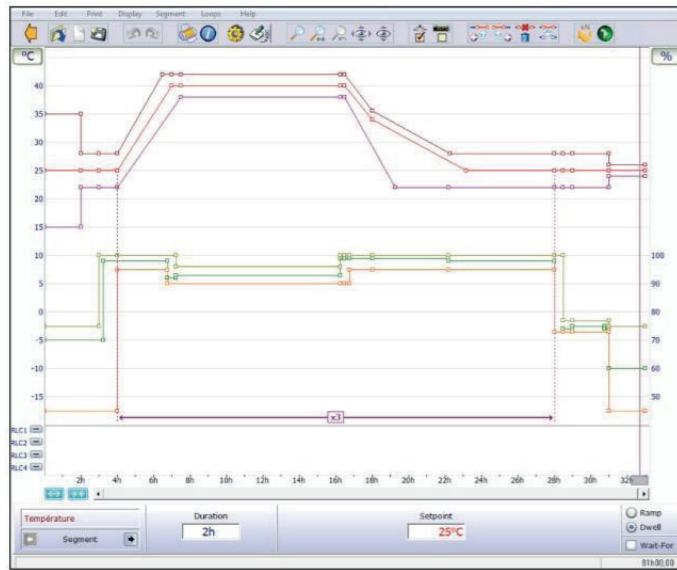
- 1 Test cabinet lighting switch on
- 2 Access to the equipment synopsis and to the network message service
- 3 User level indicator
- 4 Logbook
- 5 User notepad
- 6 Button for transferring tests on USB key
- 7 Locking with access code
- 8 Test integrity indicator
- 9 Temperature and humidity tracking alarm indicator
- 10 Calibration mode indicator
- 11 Maintenance warning indicator
- 12 Disc full status
- 13 Network connection status
- 14 Access to integrated help
- 15 Multi-languages instant switch (FR, EN, IT, CN, RU)

EASY DRAWING PROFILES

The programmes editor **ProgWin**, in its new version for SPIRALE VISION benefits from numerous improvements :

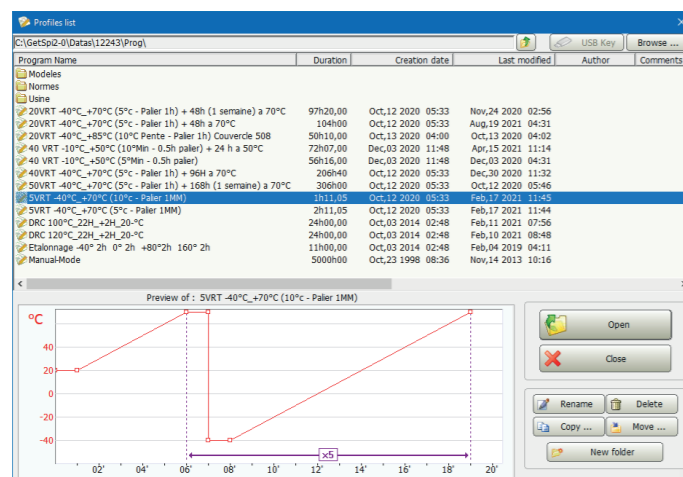
- ▶ An actualized user interface
- ▶ The touch-screen enables you to draw your profiles with a finger or a stylus

ProgWin offers you all possible programming and covers all your needs.



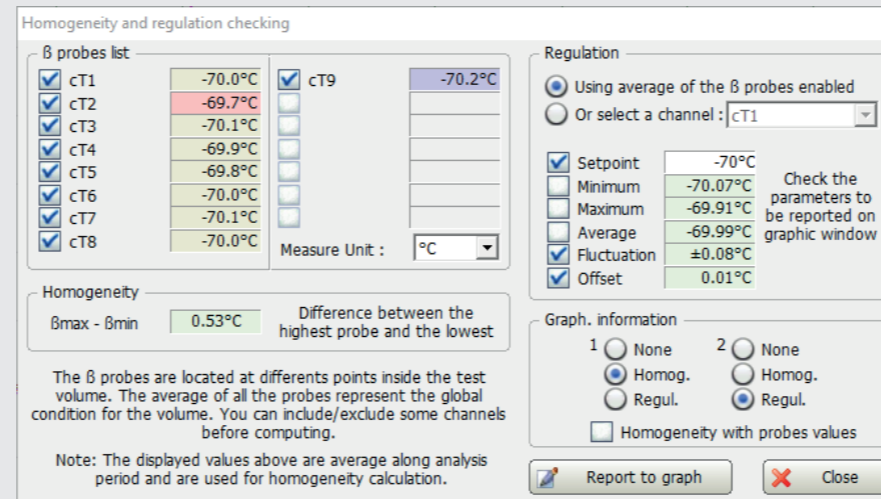
ProgWin is the only profiles editor offering features as powerful as :

- Profiles opening dialogue box with preview
- **Programming** based on «models» : reuse of your profiles to generate new ones
- «Run» mode profile display : all loops are developed and the whole profile is displayed
- Creation of master, slave, asynchronous setpoints
- Up to **64 accessible channels**
- Embedded **assistant** and entirely **graphic** toolbar
- «**Wait-For**» function : the duration of the programmed plateau is prolonged by the time needed to reach the setpoint
- Insertion of time comments in the profile
- Graphic activation of **logic outputs** with **ON/OFF** configurable function
- «Undo» function



Opening of profiles with preview

TRACEABILITY OF YOUR TESTS WITH THE RECORDER CYCLEWIN AND ANALYSIS WITH VISUWIN

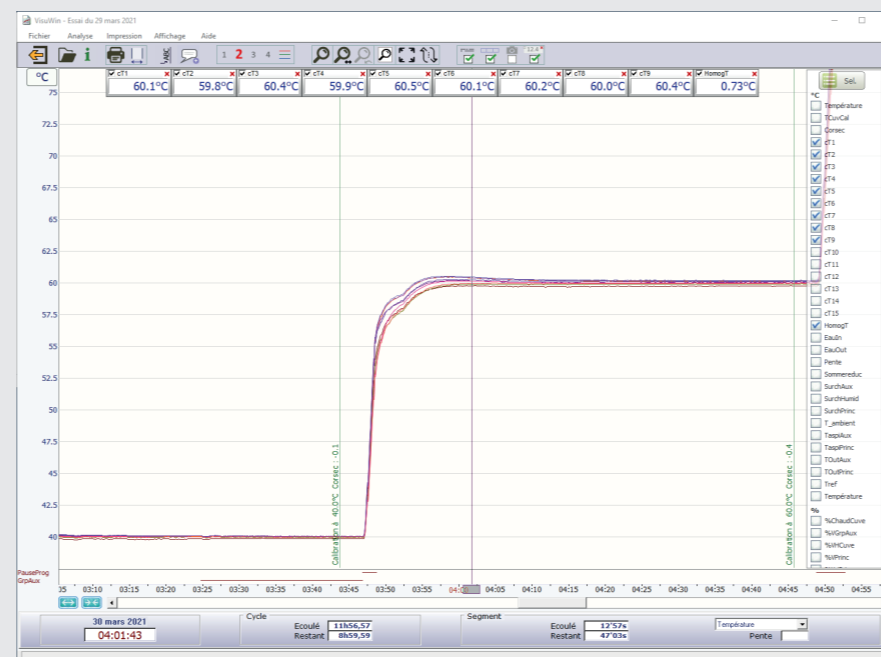


All your archived tests are easily exploitable with VisuWin

VisuWin is the graphic, accurate and instantaneous interface for the optimum exploitation of all your tests, including the most complex :

- Easy browsing with scales change, scrolling or zooming
- Instant information is displayed by pointing at the curve (channel, measurement, rate)

- Analysis function of the homogeneity and the average rate (difference, stability analysis)
- Insertion and customization of your curves
- Tests exportation function to meet all your requirements
- 4 accessible windows to display your curves
- Possibility to configure an automatic tests backup towards any storage location, network for example.



THE SIMPLIFIED MAINTENANCE

The **AUTOTEST**, in permanent operation (at each start-up), allows you to carry out a complete assessment of the environmental chamber functioning by checking its main components integrity.

Predictive leak detector

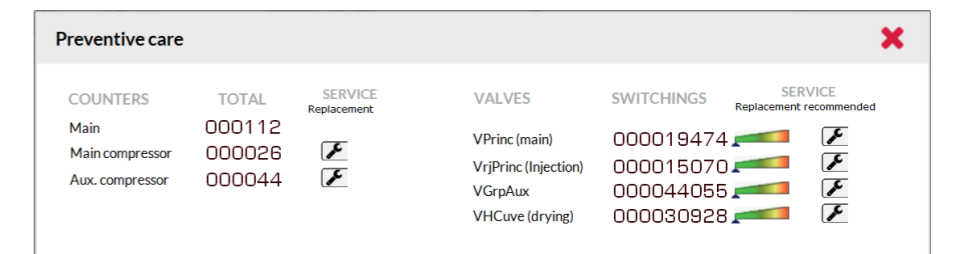


Thanks to Spirale Vision, our simplified refrigeration circuits feature fewer parts prone to wear (solenoid valves): an excellent asset to ensure your equipment a longer service life.

In addition, Spirale Vision includes a preventive maintenance tool: each component is individually monitored (solenoid valves, compressors) by action or duration counters. A global summary table makes it possible to plan preventive interventions. Finally, to prevent any malfunction of your equipment and to protect the environment, we have developed the most advanced gas leak control: you are warned of any effect on the performance of your equipment.

You totally control your maintenance

Spirale Vision integrates tools to plan your maintenance operations. You can also calibrate your chamber.



Europe
Asia
America
Africa



An international presence

At the core of the development strategy,
Export relies on a wide-ranging network of intercontinental Climats distributors.
Our partners market and service Climats equipment all over the world;
they are fully skilled in our technology and fully committed to a long-term relationship



Climats

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