

Solutions to fight COVID-19



1

We're part of Grupo Álava, with 45 years' experience, solid financial solvency, innovation and excellence.

2

We're backed by more than 30 years' experience in thermography and 15 in air filtration.

3

We're the largest professional team in Spain, with departments specialising in both thermography as well as particle analysis.

4

Complete solutions: supply, installation, maintenance and approved training.

5

Equipment from the world's leading manufacturers in these applications. Trust the best.

How can we help you?

Solutions based on your needs, with professional assistance

Take preventive action against coronavirus (COVID-19)

Body temperature measurement

PORTABLE
thermographic cameras



AUTOMATED
thermographic systems



Air disinfection

Filtration of particles in the air

FILTR REVOLUTION
air purifier



Body temperature measurement

Thermographic cameras / Portable
Thermographic systems / Automated



Thermography

Advantages & Benefits



Detection of potential COVID-19 symptoms (fever*) while keeping a safe distance



Prevent possible infection by rapidly detecting individuals with symptoms



Fast temperature measurement



Solutions for measuring temperature with maximum precision under any circumstance



Easy-to-use, robust and reliable equipment



FDA-endorsed technology

*Elevated body temperature based on an average of statistical data.

Portable cameras

What does it consist of? CAMERA + TRIPOD + TRAINING COURSE

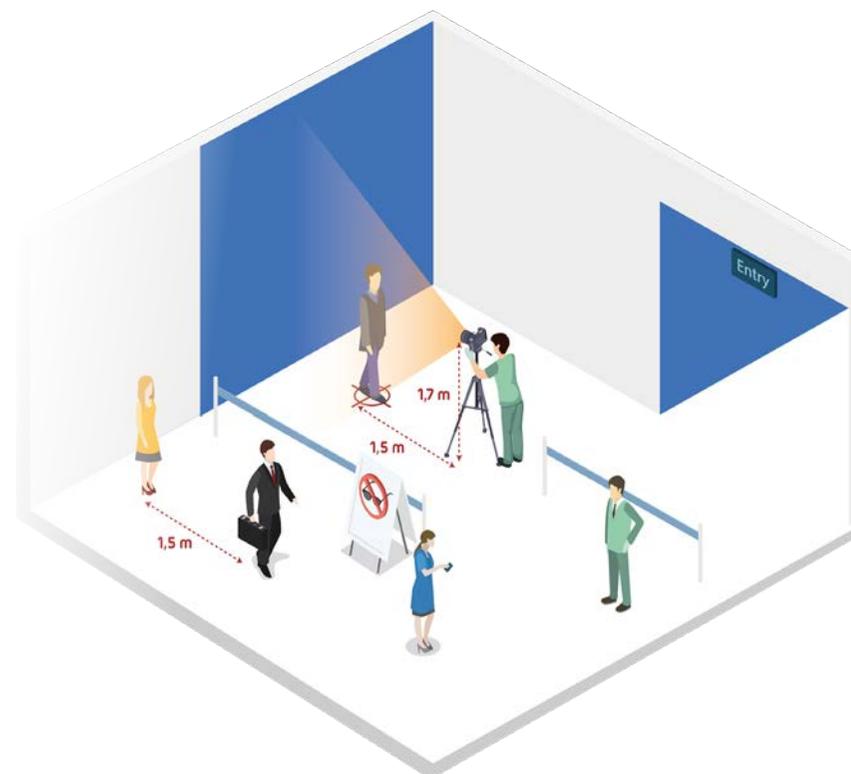
Portable temperature measurement system used to detect persons with elevated body temperatures, in real time, at a safe distance, identifying febrile processes in high-traffic areas.

Advantages

- ✓ Low cost
- ✓ Quick, easy set-up Only a tripod needed
- ✓ High thermal drift control
- ✓ Based on the FLIR TempScreen (EBT) portable series 0.5°C of accuracy!
- ✓ No black body required
- ✓ Large 4" LCD touchscreen to easily identify febrile processes.
- ✓ On-screen alerts or with audible warning

Tips

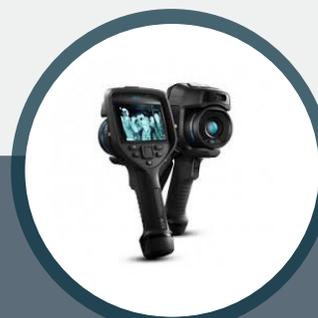
Use the **Temp Screening** AI-based algorithm (or Monitoring mode) and update it in 1 second, thus guaranteeing the average temperature of the people in that place and at that moment and identifying anyone whose temperature is at least 1°C higher than the mean for the average person.



Features



BASIC



PRO



EXCELLENT

Safety distance

From 0.6 to 1.2 m

From 1 to 2 m

From 1 to 2 m

Detector

120 x 90 (10,800 pixels)

From 240 x 180 (43,200 pixels)
+ up to 464 x 348 (171,472 P) +
UltraMax®

From 320 x 240 (76,800 P) +
UltraMax® up to 1024 x 768
(786,432) + UltraMax® Mp)

Sensitivity

From 0.06°C at 30°C

From 0.04°C to 0.03°C at 30°C

From 0.03°C to 0.02°C at 30°C

Accuracy

+/- 0.5°C

+/- 0.5°C

+/- 0.5°C

Fever detection alarm

✓ at 37.3°C

✓ Temp screening

✓ Temp screening

Ergonomics

Gun

Gun

180° rotatable lens

Internationally
traceable calibration
certificate for Pro and
Excellent



Alava International
GRUPO ÁLAVA

Automated systems

What does it consist of?

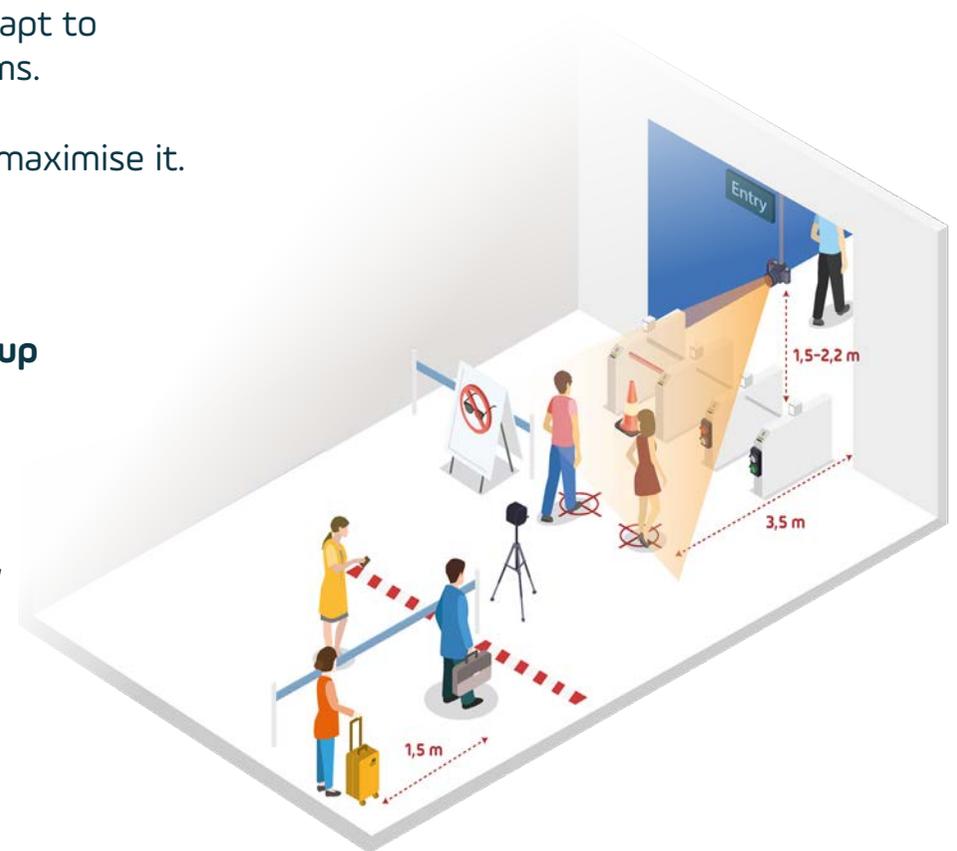
This system makes it possible to reliably, accurately and automatically detect individuals with higher than normal body temperatures. Thanks to the technical expertise of Álava Ingenieros, with over 30 years dedicated to thermography, we can provide this equipment to our customers, offering them the highest level of reliability and adapting to each customer's particular needs.

Ability to automatically detect the correct measurement point and adapt to external conditions, thanks to its integrated analytics and **AI** algorithms.

Physics offers a certain precision for each situation; we'll help you to maximise it.

We'll provide the complete system, as well as installation, start-up and training, including the following accessories:

- Thermographic camera
- Black body reference
- Two tripods/wall or ceiling mounts for the camera and black body
- Wiring and accessories
- Optional: control markers, user detection, bespoke software



Advantages

- ✓ Technical consulting from Álava Ingenieros, experts and pioneers in the use of thermography in Spain with over 30 years' experience
- ✓ Internationally traceable calibration certificate
- ✓ Automatic operation with no operator needed
- ✓ WiFi communication
- ✓ Alarms sent to external systems to activate mechanisms, block access, notify alerts (email/FTP)
- ✓ Easy-to-integrate system (MODBUS/ONVIF/GenICam/GigEVision, etc.)
- ✓ Embedded analytics (no control computer needed)
- ✓ Optional visible camera built into the body of the camera itself
- ✓ Own verification and repair laboratory in Spain
- ✓ Wide range of maintenance plans available

Tips

Individuals must stand still in front of the camera for 1 second.

Measure temperature individually (1-metre minimum separation as recommended by the World Health Organization).

The temperature must be measured at the tear duct, so anyone wearing glasses will have to remove them.

Ask us how to maximise the accuracy of your system if these conditions don't match your particular use!

Features



BASIC



PRO



EXCELLENT

Automated system

✓

✓

✓

Alarm outputs

✓

✓

✓

Includes black body

X

✓

✓

Accuracy

+/- 0.5°C

+/- 0.3°C

+/- 0.3°C

Resolution

160 x 120

320 x 240

640 x 480

Sensitivity

40mK

30mK

30mK

Temp screening

X

✓

✓

Automatic tear duct detection

X

>95%

100%

Alarm adjusted automatically based on external temperature

X

X

✓

Capacity control

X

X

✓

Internationally traceable calibration certificate for Pro and Excellent



Alava International
GRUPO ÁLAVA

Course: How to measure body temperature using thermography

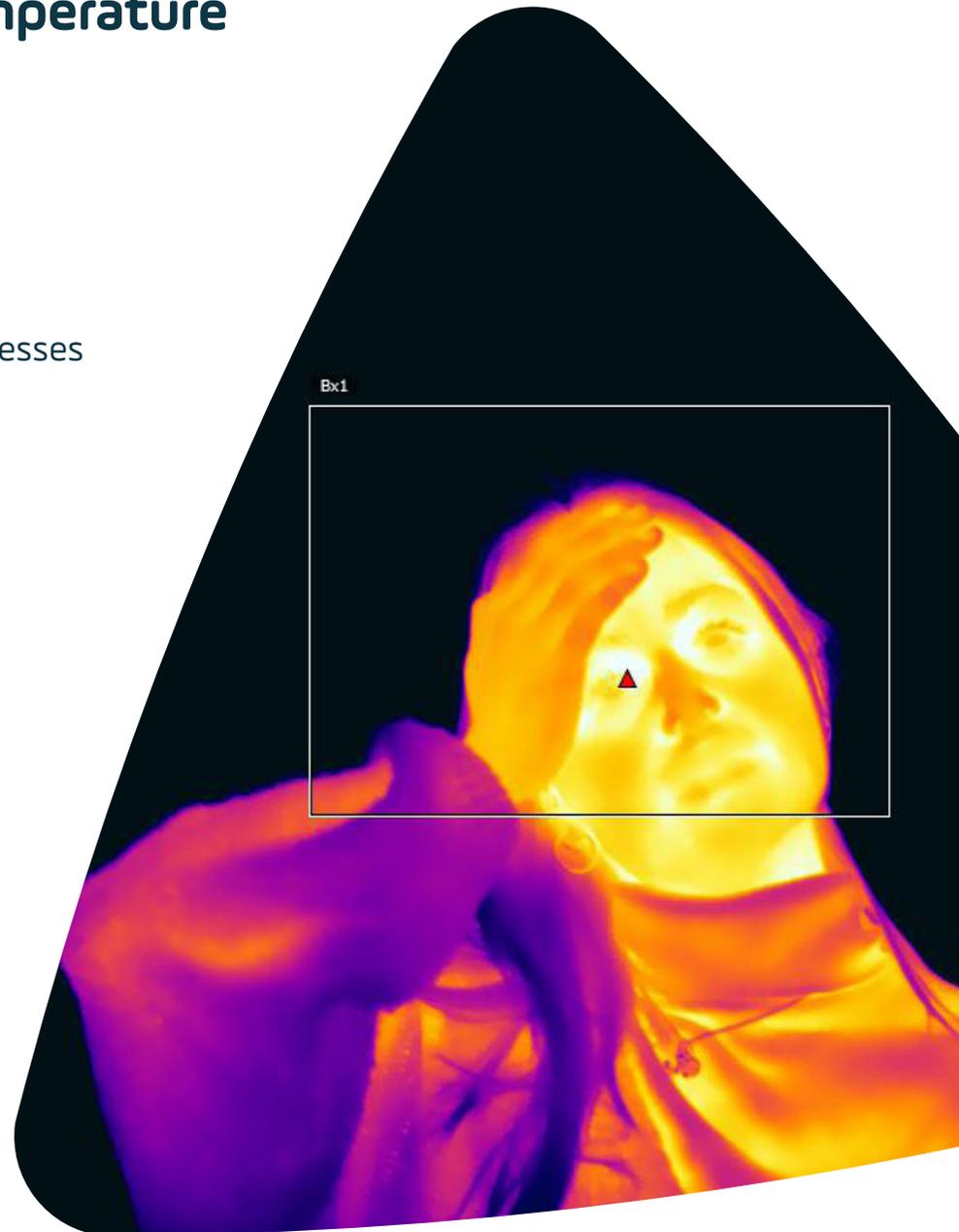
Topics:

- Introduction to thermography
- Parameters to consider for detecting febrile processes
- Temp Screening alarm/Monitoring mode set-up
- Setting up and using the system

Type: online

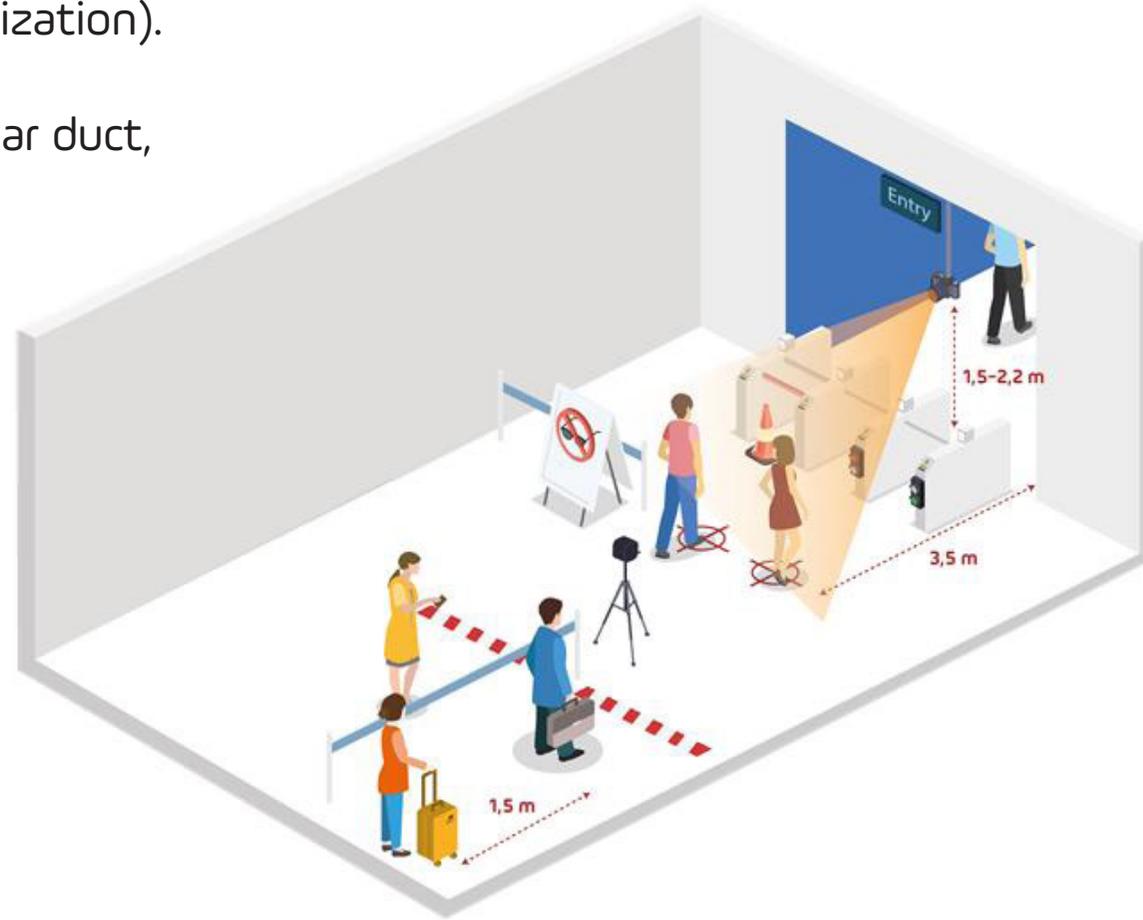
Duration: 4 hours

OFFER! Included with the purchase of a portable camera or automated system (Pro o Excellent) before May, 29th 2020



Measurement protocol created by expert thermographers during the 2003 SARS crisis.

- 1 Individuals still in front of the camera for 1-2 seconds.
- 2 Measure temperature individually (1-metre minimum separation as recommended by the World Health Organization).
- 3 Temperature must be measured at the tear duct, so people who use glasses must remove them.



FAQ

Why is an infrared camera useful for issues related to COVID-19?

To detect an elevated body temperature based on an average distribution of known data.

Can infrared cameras accurately measure a group of moving people? No, there are no cameras on the market with enough resolution to accurately measure lots of people at the same time. Therefore, with the current technology, by measuring with less resolution than necessary, we will be including areas of lower temperature in our result, thus offering a lower temperature measurement than the actual one.

How should temperature be measured?

One by one if possible (two by two maximum), looking at the camera while stopped for at least one second.

Can it be measured while wearing glasses? No. Why does the measurement have to be done without glasses? Because we need to measure in the tear duct area for a good correlation between the internal and external temperature, and glass is opaque to infrared.

Air disinfection

Filtration of particles in the air





Air purification.
Filter impurities and particles
in the air, such as viruses, mites,
mould, dust, etc.

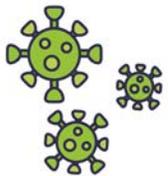
Advantages & Benefits



Safeguard the health of employees and customers



Keep the work environment free from COVID-19 particles

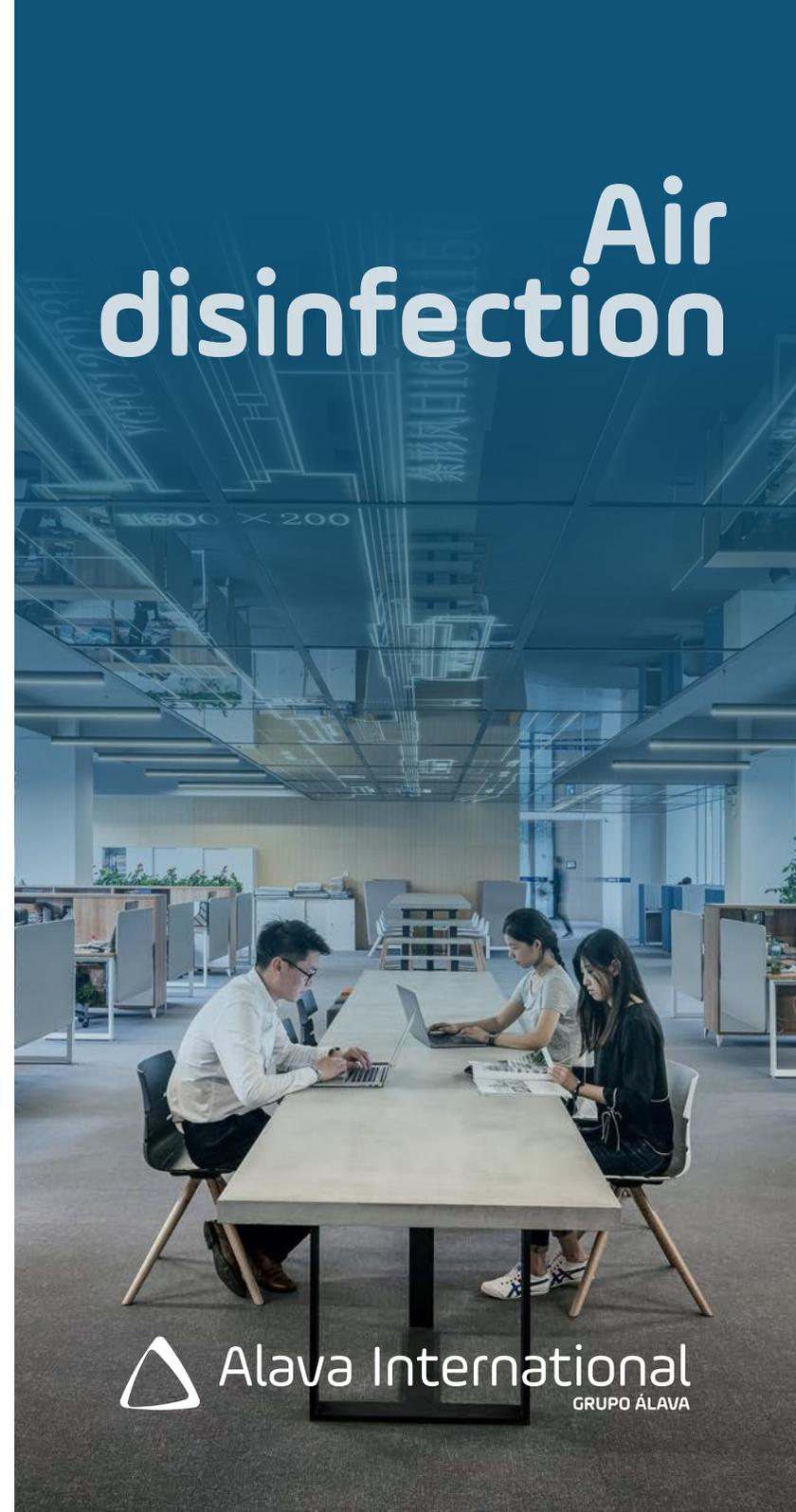


Exchange and filtering of suspended particles, including COVID-19 particles, up to five times per hour in areas of 100m²



Easy-to-use, robust and reliable equipment

Air disinfection

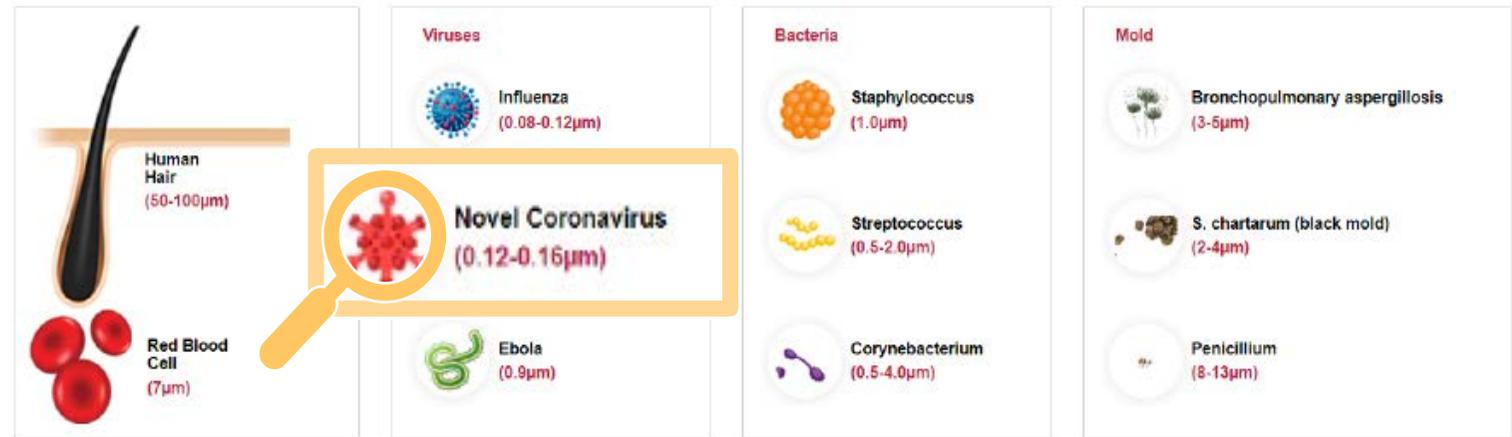


FILTR Revolution

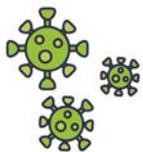
What does it consist of?

First equipment with HEPA technology capable of providing 99.95% removal efficiency for all particles, such as smoke or virus particles (COVID-19).

With filtration up to 0.01 microns, you can be sure that everyone will be protected from harmful pollutants in the air:



Advantages



Removes viruses, bacteria and fungi present in the air



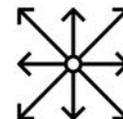
Long-lasting HEPA and activated carbon filters



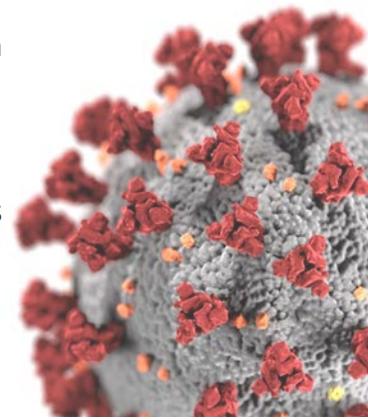
Easy to maintain



Monitor room status from your mobile



Large capacity system for large spaces



Where can we use it?



Home



Factories



Hotels



Restaurants



Hospitals



Offices



Supermarkets



Shops



Pharmacies



Veterinary surgeries



Gyms



Cinemas

In any enclosed public space

Tips

To correctly ventilate your installation, it is necessary to ensure 5 air changes per hour

Features

ULTRA HEPA technology

Used in the most demanding environments such as pharmaceutical factories and operating theatres.

Flow rate up to 849 m³/h

Able to provide 5 air changes per hour in 100-m² rooms!

Integrated PM2.5, VOC, temperature and humidity sensors

Monitor all room parameters in real time from your mobile

Activated carbon filter

Eliminate VOCs and bad odours

Metal housing for easy cleaning and disinfection

Portable option with wheels or wall mounting.

Calibration certificate available for all components!





**Breathe better with
totally clean air,
free of viruses and bacteria**



Alava International
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Contact

T +1 (214) 713-8807
E hello@alavainternational.com

