

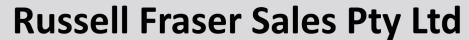
# Introducing PORTASCANNER® COVID-19

Reduce the spread of airborne disease by inspecting rooms for leaks

Designed as a result of British Government COVID-19 Emergency Response Grant

### **COLTRACO** Ultrasonics | since 1987



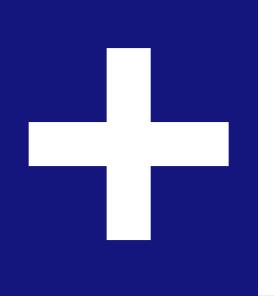


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### **AIR CONTAMINATION IN HOSPITAL SETTINGS**

A December 2020 study on COVID-19 and air contamination indicates that 50% of air samples taken from hospital hallways and 20% from hospital bathrooms have high levels of coronavirus.



- Air samples from ICU rooms were more than twice as likely to be positive for genetic material of the virus at 25.2% compared to 10.7% for non-ICU rooms.
- More than one-fifth, 23.8%, of samples taken from bathrooms were positive for viral RNA.
- Samples from hospital hallways were the most likely to come back positive at 56.3%.
- Source: JAMA Network Open.

2020;3(12):e2033232.

doi:10.1001/jamanetworkopen.2020.33232 or email sales@coltraco.co.uk for access.

## **REDUCE THE SPREAD OF COVID-19 IN HEALTHCARE**

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To reduce the spread of airborne infectious diseases Hospital ICU wards rely on negative-pressurisation. Adequate ventilation needs a minimum airtightness.

Current practice involves measuring total air permeability but is unable to give meaningful value for leakage rate via individual leaks or locate them precisely.

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Portascanner® COVID-19 measures individual leak sizes and leakage rates and use these to approximate total air permeability too.

BBC

The only alternative to Portascanner® COVID-19 is 3rd party contracted door fan testing which is more invasive, time consuming, and costly. It cannot be used with patients in the room. Our instrument can. Without this, "patch and hope" measures are often used i.e. taping obvious areas of leakage (pictured).

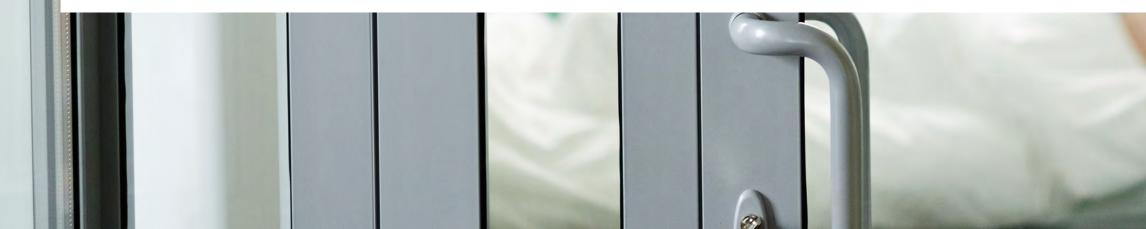




### USE PORTASCANNER® TO HELP STOP COVID-19 SPREAD

For use in Healthcare: Hospital ICU Wards, Dental Surgeries, Clinics & Industry: HVAC areas, Isolation Areas, Quarantine Areas, Corridors e.g. shipping, offshore, cruise lines, and more

- Portascanner® COVID-19 locates leaks in hospital wards,
- quantifies the leaks in regard to their cross-sectional area and
- calculates the air flow rate through them.
- This generates an air permeability value for an entire ICU Ward which the user can compare against the required value for negative pressurisation.





### SOLUTION

Choose Portascanner® COVID-19 to know where leaks are and their significance to take remedial measures quickly.

Improve efficiency and quality of airtight room maintenance – locate leaks and accurately find the leak site size. **SOLUTION: seal the leaks that matter.** 



Record
include
report,
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SAVES TIME

**MEASUREABLE** 

Be confident that the room/ward is appropriate prior to the installation of FPE (Fan Pressurisation Equipment). **SOLUTION: save time and resource and significantly reduce the risk of installing FPE in an unsuitable room.** 

leaks by area and flow rate and photographs within the test all in one hand-held instrument.ION: Provide evidence of your nance programme.

EVIDENCE BASED

### PORTASCANNER® COVID-19 KEY FEATURES INTUITIVE EASY-TO-USE 7" TABLET TO REDUCE INFECTION CONTAGION

Portascanner® COVID-19 identifies and quantifies leaks sites for pressurised rooms, without needing be the room to pressurised beforehand. It non-disruptive İS а method to assess adequate airtightness.

Comply with healthcare standards by providing size of leak (crosssectional area) and air flow-rate through it, relating each leak to air permeability requirements.



#### **CAMERA 8 MEGAPIXELS**

Capture images of the test area to allow leak positions to be recorded and exported, all within the same instrument and at the touch of a finger.



#### **DUAL FUNCTION**

Choose 'quick test' (for quickly locating leaks) or 'full test' (for quantifying them).



#### **POWER SETTINGS**

Choose power settings for accurate testing regardless of size & shape of the room.



**RECORD DATA & EXPORT VIA USB** Easily transfer leak site results and photos via USB.



#### **FILTER RECORDS**

by date or location.



This is for maintenance not for medical purposes so does not require medical certification.

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### BENEFITS IMPROVE COVID-19 SAFETY: PROTECT STAFF, SAVE LIVES.

#### ACCURATE

Determine air leakage rates through walls, doors, seals.

#### **RESULTS-BASED**

Calculate number of leaks, leak area, total air flow rate and air permeability rate.

#### **EASY TO USE**

Quicker and less troublesome than existing "patch and hope" method.

#### **SAVE TIME & MONEY**

Save value, time and cost and thus improve safety.

## HOW TO USE IN 5 STEPS

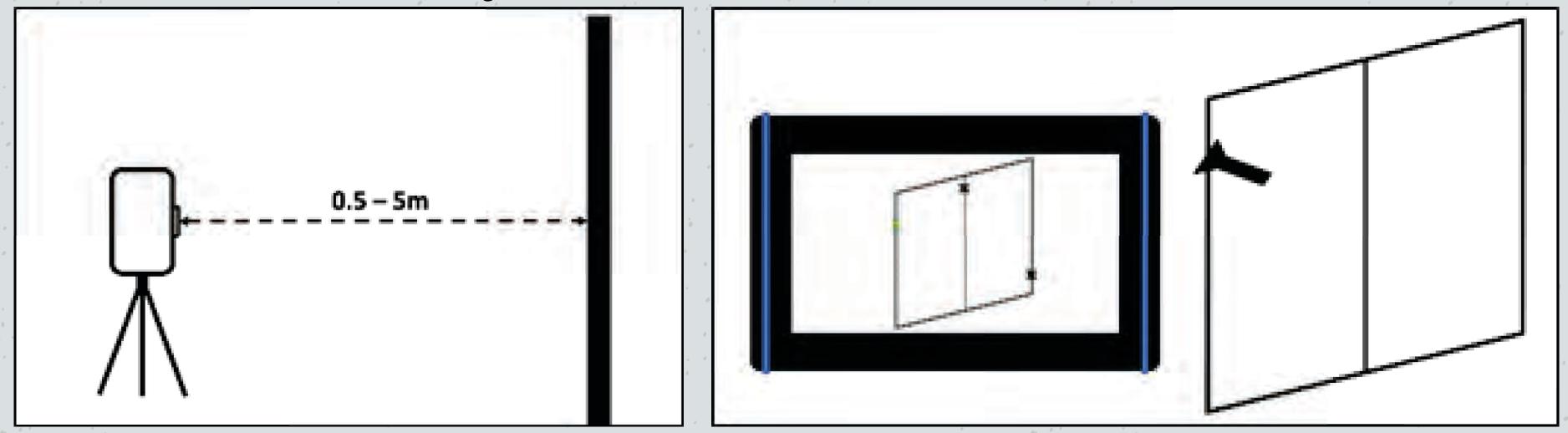




#### Receiver & Sensor (left) Generator (right)

1. Position generator between 0.5 – 5m from the structure to be measured.

2. Find leaks by moving the wand around the area being tested. Look for spikes in the signal bar and mark them on the photo.



## HOW TO USE (2)

3. Now, open the structure and measure the "Open Air Value" (OAV) associated with each leak.

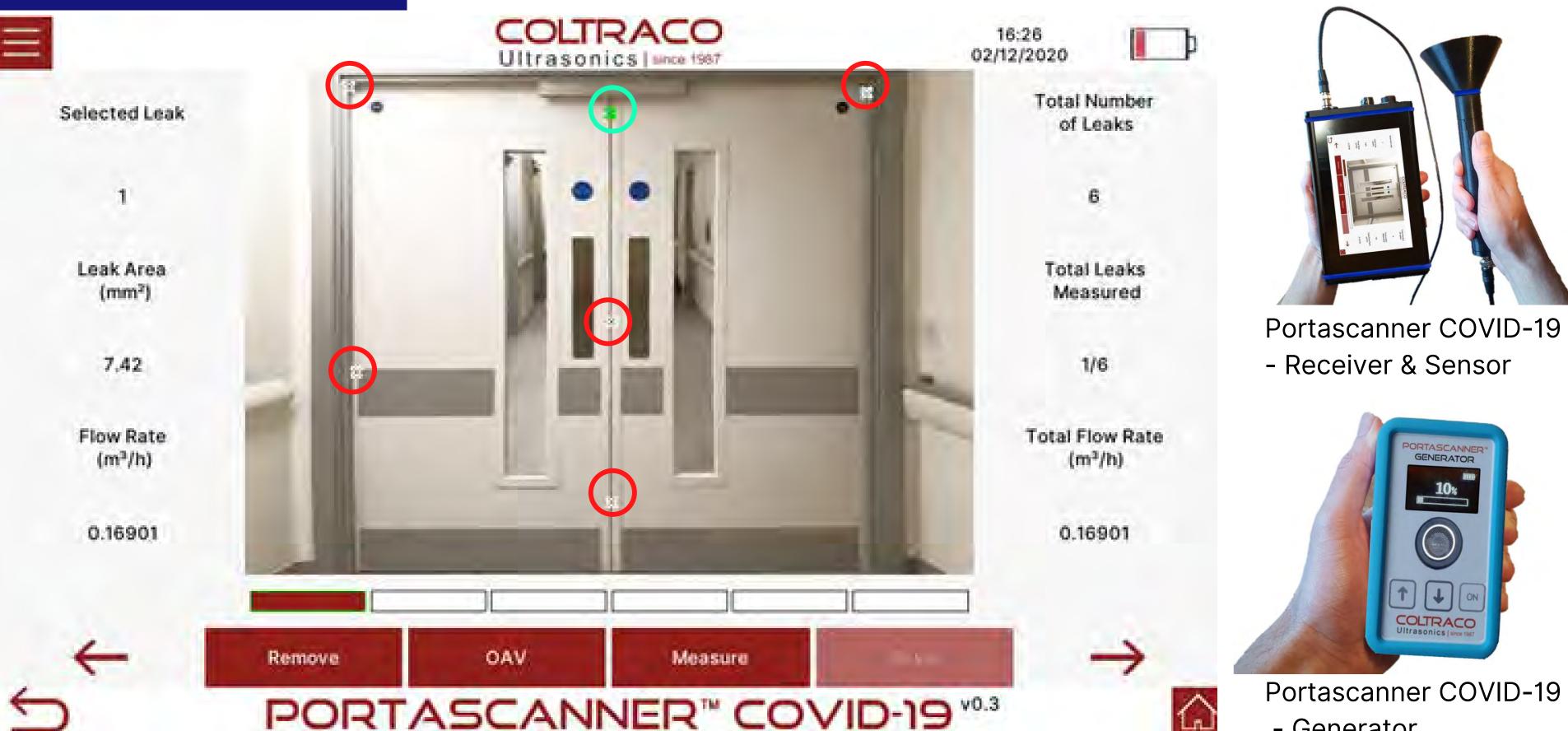
4. Close the structure and measure the size of each leak by pointing the wand at it and observe increase in bar graph.



5. Once all leaks are measured, press 'Save'. The measurement will be presented in a number of formats such as leak area, flow rate and total flow rate.

### **EXAMPLE TEST**

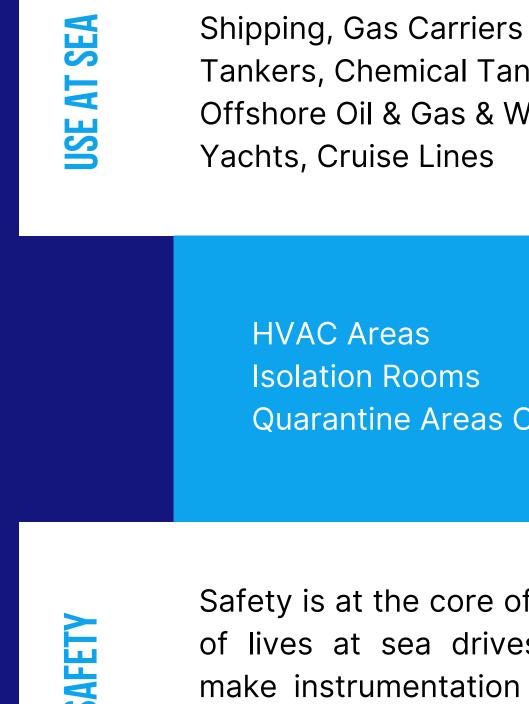
This is what the tablet will look like once you have identified leaks in your door. The circles highlighted the leak area.



### - Generator

### **MARITIME COVID-19**

Air intakes must be set to ensure that the atmospheric inside the pressure accommodation is greater than that of the external atmosphere. In engine and boiler rooms, ignition sources such as those arising from boiler operations and electrical equipment cannot be avoided (see also Section 4.2.4). It is essential therefore to prevent the entry of flammable gases into such compartments. Residual fuel oils and gas oils may present a flammability hazard (see Section 2.7) and the routine checking of bunker spaces for flammability by tanker and terminal personnel is to be Source:OCIMF encouraged. https://www.isgintt.org/files/documents/Ch apter\_04en\_isgintt\_062010.pdf



Safety is at the core of all we do. Safety of lives at sea drives our mission to make instrumentation to protect crew, cargo, offshore infrastructure & vessels.

Tankers, Chemical Tankers Offshore Oil & Gas & Wind Installations

**Quarantine Areas Corridors** 

APPLICATIONS

### **TECHNICAL SPECIFICATIONS**

Main Unit: Height: 225mm (8.86 inches) Width: 135mm (5.31 inches) Depth: 35mm (1.38 inches) Weight: 1051g (37.07 ounces) Height: 112mm (4.41 inches) **Generator:** Width: 67mm (2.64 inches) Depth: 25mm (0.98 inches) Weight: 137g (4.83 ounces)

-20°C to +70°C (68°F to 158°F) **OPERATING** TEMPERATURE

DISPLAY

#### READINGS

**GENERATOR** 

DIMENSIONS

Single transducer (40kHz). Variable power settings. Mounting method – tripod (optional)

RECEIVER WAND

Total Length: 230mm Rod Diameter: 25mm. Extension parts available for longer length. Connected by BNC connector to 1m length coax cable

POWER SUPPLY

PACKAGE CONTENTS 1 Portascanner® COVID-19 Main Unit, 1 Portascanner® COVID-19 Generator, 1 Receiver Wand, 1 BNC Cable, 1 Headphones, 1 Hard Wearing Carrying Case, 1 Charger, 1 USB stick, 1 Calibration Certificate, 1 Generator tripod mount (optional)

RESOLUTION

CAMERA

7-inch capacitive touchscreen, LCD back-lit, 1024x600 resolution display

Visual via User Interface Display. Metric or Imperial Units available. Measures cross-sectional area of leak sites. Audible via external headphones

Both generator and main unit are LiPo battery operated. Rechargeable via micro USB. No replacement required. Battery life: 6+ hours continuous use (TBC)

0.5mm leak diameter

8 Megapixel camera on rear of device



### **SOLVE YOUR AIR PERMEABILITY NOW**

For healthcare settings like hospitals and dental practices and for all isolation rooms. Get in touch to reduce the risk of COVID-19: +44 207 629 8475 sales@coltraco.co.uk www.coltraco.com

### COLTRACO Ultrasonics | since 1987



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**ISO 14001** 

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