



# MODULAR TESTING INFRASTRUCTURE

Fast, Safe, Efficient Testing

## The Challenge

COVID-19 is spreading quickly and without discrimination. As we work collectively to flatten the curve, federal, state, and local governments, along with the private sector, will be focused on safely resuming operations in a post-pandemic environment.

To combat the transmission of COVID-19 and other pathogens, organizations may require on-site testing and consultation facilities.

## Our Solution

DetectWise™—a suite of modular components that can be combined or deployed individually—provides a turnkey health assessment, in-person health screening, self-decontamination, and on-site testing. We developed DetectWise in response to the recent COVID-19 pandemic, but it can be repurposed for any type of health screening and testing challenge.

We designed our modular testing infrastructure to offer high-throughput, on-site COVID-19 testing featuring the following benefits:

- Innovative patient exam modules to maximize patient throughput.
- Positive and negative ventilation control with filtration systems to avoid patient-to-worker transmission.
- Close patient interaction while maintaining isolation, allowing workers to safely examine patients.
- Leverages lessons from South Korea's COVID-19 testing booths, while also applying CDC-approved methods.
- Physically separates the patient from the medical worker, adding flexibility for worker movement and deployment and reducing personal protective equipment (PPE) consumption.
- Highly configurable modular design enables higher capacity with additional modules or components.
- Drive-through or walk-up patient access can be provided at the same site.

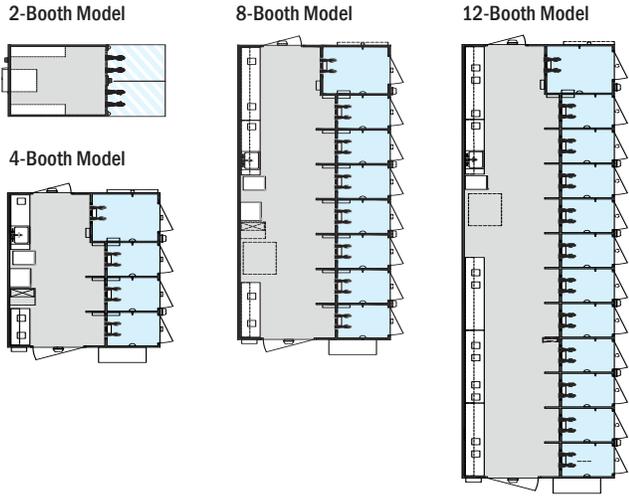
## Our Approach

### Plans, Specs, And Operations Manual

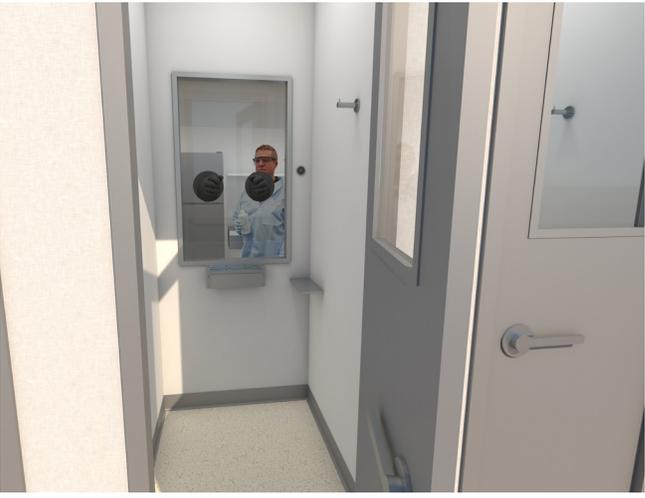
Our design uses engineering controls to maximize worker protection and minimize PPE consumption. This rapidly deployable innovation centers around a modular, low-cost patient examination booth that provides safety for the entire medical team.

### Applicable For:

- Government and commercial campuses
- Hospitals and medical facilities
- Television and film studios
- Universities



Four model configurations available



Patient examination booth

Our solution is configurable for walk-up or drive-through facilities. Key components include a module with patient exam booths; a sanitized, protected medical working area; and smaller self-contained booths for drive-through and data-entry technicians. Attendants work from sealed booths fitted with engineering controls, isolating workers from patients and preventing unnecessary contact.

Patient examination and technician booths may include a glovebox wall with a bag-in/bag-out system, enabling workers to safely examine patients and collect specimens from a sealed chamber for analysis in a controlled environment. This component allows physical separation from the patient, while providing dexterity for the worker performing the exam.

Medical workers can access tablet-based, Bluetooth-connected screening tools and distribute sample kits to patients with minimal to no contact. Samples are then bagged out in batches for processing under a hood at the on-site testing facility. Testing and biosafety procedures will adhere to interim CDC guidelines for sample handling and specimen processing associated with COVID-19 ([see link](#)).

Drive-through patients receive the same exam without leaving their car. Workers direct patients with advanced symptoms to the booths for additional examination. Larger sites can include more drive-through lanes or additional patient booths, depending on customer need.

Customers can add fabric awnings over queuing areas, drive-through lanes, and portable toilets depending on local conditions. The electric genset, potable water, and gray water tanks ship within the facility for deployment outside. The facility will include storage for supplies and PPE.

**Disinfection**

Our test facility and patient flow design dramatically improves

workforce safety and reduces patient-to-patient contamination. Surface decontamination protocols allow quick turnaround without sacrificing safety or performance efficiencies. Patient exam booths are chemically disinfected between each use and are physically disinfected regularly. Inner surfaces and floors are decontaminated with EPA-registered hospital disinfectants formulated with hydrogen peroxide and with label claims that they are effective against COVID-19 ([see link](#)).

As an optional service, each patient exam booth can include a UV flash disinfection system. A motion light and thermal sensor will constantly monitor the chamber for activity. Once an exam is complete and the booth is empty, an interlock will secure and shade the room. The booth will then be disinfected using the EPA-recommended UV flash dosage and duration.

**Why Us?**

We care deeply about the health and safety of our team, our partners, and our customers, and we remain more committed than ever to our purpose of delivering a better world—even from a distance.

With nearly 16,000 employees worldwide, we stand ready to help. We have proven experience supporting infectious-disease research and providing specialized clinics and test facilities for mission-specific requirements, including the Defense Threat Reduction Agency’s Syria Chemical Weapons Elimination mission and a modular facility in Iraq we repurposed and deployed to West Africa during the Ebola crisis.

The Parsons team is actively engaged nationwide with federal and state authorities as well as with hospitals and our clients to ensure that they have adequate COVID-19 testing in place. Together, we’re prepared to rapidly mobilize our teams to respond to today’s evolving needs and to begin planning for tomorrow.

**For further information, please contact:**

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