While fielding a pandemic outbreak, it is necessary to have the best equipment with speed and accuracy. Top of the line diagnostic tools are critical as they help to provide quick readings and updates on patients. Radiology departments around the country must remain ready to answer the call to support the COVID-19 crisis, a disease for which imaging will play a vital role in the patient continuum of care. Philips Computed Tomography (CT) is dedicated to fulfilling the diagnostic promise of CT imaging, advancing patient care with innovations in CT product design, radiation dose management, image quality and advanced clinical applications. ADS, Inc. and Philips are supporting pandemic response with a rapidly deployable Modular CT Center.

**RAPIDLY DEPLOYABLE MODULAR CT CENTER**

///// Supporting Pandemic Response with Philips CT Scanners

The proposed Modular CT Center is an investment dedicated to:

- Limit spread of the disease
- Assess/monitor and triage COVID-19 patients quickly and efficiently
- Make patient treatment and management decisions
- Conserve PPE
- Reduce staff exposure
- Maintain in Hospital CT scanners for non-COVID-19 patients
- Provide both accurate diagnosis and risk stratification for COVID-19 infected patients
PHILIPS INGENIUMTY CT SCAN MODULE:
DIAGNOSTIC IMAGING SUITE BUILDING

This diagnostic imaging suite building offers a state-of-the-art disinfection system with a layout designed to expedite patient examination while minimizing staff contact and exposure. Offering the highest level of infection control measures, negative pressure to also include UV-C on each surface 100mj/cm² in a 10-minute period.

In compliance with Institutional Type II-B and Seismic D design and engineering requirements, this building has a 50-year life expectancy.

Features:
- Institutional construction
- 1-hour fire rated walls and roof
- Fully finished interior and exterior
- CT system site-installed
- Fully contained HVAC
- UL designs
- Philips design certified
- IBC seismic zone D
- IBC 150 mph structure
- HHS compliant
Some CT’s will be redeployed from existing infrastructure for the initial ramp-up. As infection peaks pass in initial populated centers, rural environments will begin to be the hardest hit, so another round of redeployment of assets will be needed. Some facilities are planning on having up to 17,000 medical beds in large exhibition centers, so a redeployment of the existing CT fleet will not be enough in a few months’ time. Based on emerging global standard practice for temporary and field hospitals, 1 CT is needed for every 1000 beds of additional capacity. Roughly 80% of all recovered patients have residual lung findings, so many of those CTs will need to be redeployed on hospital grounds once the COVID overflow sites close, as the recovered patients will need access to ongoing imaging.

Express Testing Center Process:

1. Patients drive up and wait in vehicle: no metal objects on clothing above the waist
2. Patients are registered while in vehicle
3. Protective gear is distributed to patient
4. Patient enters CT building when notified
5. Patient completes CT by listening to technologist’s instructions
6. Patient exits testing building and returns home
IMPORTANT NOTES FOR MODULAR CT CENTERS:

- Cycle times will be 10 minutes (can be made less with different UV Options)
- Each high touch surface will receive at least 100mJ/cm² does of UV in the 10-minute period
- No UV-C light source will be greater than 6 feet from any touchable surface
- Individual fixtures will be used in an attempt to minimize the shadow spots and ensure ALL high touch surfaces receive specified dosage
- A 180-degree UV-C light source will be used to disinfect inside the CT bore
- Bulbs will include a cover which ensures no unsafe breaking conditions including containment of Mercury
- HVAC will also include HEPA filter and would turn over room air every 2 minutes
- HVAC will also include UV-C sanitation for additional coverage
- UV-C will also be included in Technologist Control room, Radiologist/office and corridor
- Dosage was calculated by optimizing distance, number of fixtures and cost

Whether you have funding or need it, ADS is a prime on over 65 contracts, and has the power to move your requirement forward. Through thousands of long-standing supplier relationships, we quickly find and deliver the equipment you need to do your job—safely. ADS is prepared to quote and source products to the best of our ability and/or find an alternative solution for your mission.

CLASSIFIED UNDER 70+ NAICS CODES, INCLUDING:
- 333999 - All Other Miscellaneous General Purpose Machinery Manufacturing (Small Business Size Standard = 500)
- 334510 - Electromedical and Electrotherapeutic Apparatus Manufacturing (Small Business Size Standard = 1,250)
- 334519 - Other Measuring and Controlling Device Manufacturing (Small Business Size Standard = 500)
- 339999 - All Other Miscellaneous Electrical Equipment and Component Manufacturing (Small Business Size Standard = 500)
- 339113 - Surgical Appliance and Supplies Manufacturing (Small Business Size Standard = 750)
- 423450 - Medical, Dental, and Hospital Equipment and Supplies Merchant Wholesalers (Small Business Size Standard = 200)

ADS is a Small Business
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