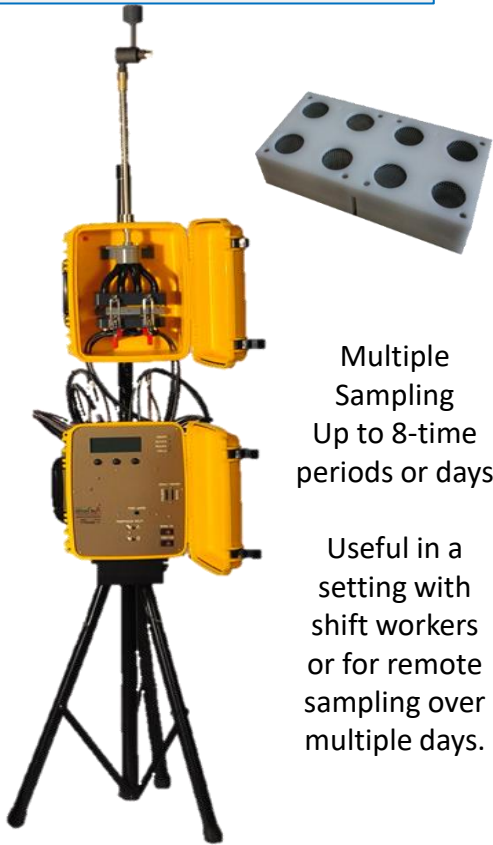


# COVID Sampling Instruments

## Hourly and/or Multiday Low Flow Air Sampling

AirPhoton AeroExplorer Filter Based Sampler



Multiple Sampling  
Up to 8-time periods or days

Useful in a setting with shift workers or for remote sampling over multiple days.

Aerosol samples are collected on gelatin or teflon filters

## High-Flow Rate Air Sampling

AirPhoton BioSampler



A 12.5 L/min sonic-flow deposits the sample aerosols into a 'swirling' proprietary capture liquid.

## Low -Flow Rate Air Sampling

Thermo pDAR 1500 personal exposure or area sampler



The Thermo pDR-1500 aerosol monitor features interchangeable cyclones for PM<sub>10</sub>, PM<sub>4</sub>, PM<sub>2.5</sub>, PM<sub>1</sub>, as well as an integrated sample filter that enables Covid-19 air samples to be collected.

The real-time PM concentration data can be used to assess the efficiency of HVAC filters at removing aerosols from an indoor space.

Aerosol samples from all three sampling systems are analysis for Covid-19 by PCR at a FDA approved laboratory (TAT between 24-48 hrs)

If Covid-19 is detected in an air sample contract tracing can be initiated to identify the source of infection and limit its spread

All three instruments can be used to sample for all respiratory pathogens, e.g. SARS, flu strains, bacteria mold and yeast. The samplers can also collect aerosolized wound infectious agents, e.g. MRSA