

COVID 19 Prevention and Screening Tools

The challenge is clear:

The COVID 19 viral pandemic has caused governmental authorities to close businesses, require social distancing, even stipulate varied degrees of sheltering-in-place at home. Businesses and municipalities are now working to either sustain or restart operations under this changed circumstance. The changes needed to succeed may define a 'new normal' simply because effective anti-viral treatments and vaccines are not expected soon enough to make them unnecessary. What then are the prudent measures you can take today to further safeguard your people and your operations?

Setronics can now offer prevention and screening solutions to help mitigate COVID-19 transmission for your operations. These solutions can operate on a "stand alone" basis and are even more effective when integrated with existing access and CCTV technology. Their use can deliver safer work environments and better protect businesses from future shutdown and liability.

Protecting Your People and Enterprise During Viral Outbreak

The proven strategy for viral transmission mitigation includes the steps below.

STEPS FOR SUCCESSFUL COUNTER OF COVID 19 VIRUS TRANSMISSION

- regular disinfecting of common surfaces,
- frequent hand washing,
- the use of face masks and other personal protective equipment,
- social distancing and reduced building occupancy,
- screening for symptoms of infection such as elevated skin temperature

Our solutions will support and enforce your strategy and include:

- 1) **Skin temperature screening** by thermography at controlled entrances,
- 2) **Face mask in place verification** by visual sensors,
- 3) **Building occupancy counting** and control,
- 4) **Hygienic non-contact access credentials** such as key fob/card, palm or facial ID,
- 5) **Video-documented public station hand washing** as operations borrow practices from food preparation industry regulations to reduce infection,
- 6) **Video spacing analytics** to monitor queues and detect non-compliant social distancing, and
- 7) **Mobile video to confirm best hygienic practices** for delivery services.

Protecting Your People and Enterprise During Viral Outbreak (cont.)

System functionality includes rapid detection of perimeter issues, alert notifications for immediate action, and compilation of reports for performance tracking and compliance auditing. As a Security Integrator we can customize a solution to support the policies you establish with the flexibility to adjust over time and add new technology as it becomes available.

We focus on examples of prevention and screening for two aspects:

- Personnel-Facing Protection
- Public-Facing Access Protection

Personnel-Facing Protection

Biometric video sensors can affordably screen for body temperature reading and face mask detection before granting access. They can be combined with facial, contactless palm or key fob identification to achieve 2-factor authentication for enhanced access control.



Biometric Video Sensor Screening

- *Detect Symptomatic Fever*
- *Assure Face Mask Compliance*
- *Enables Contactless Access Control*
- *Affordable and Flexible*



Full Body Heat (+Metal) Detection

- *Detect Symptomatic Fever*
- *Screen for Metal Weapons*
- *Combine with Access Control*
- *Integrates with added biometric sensors*
- *Supports Higher Throughput*

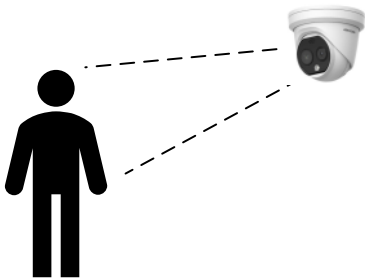
Public-Facing Protection

Large retail stores and other public venues have unique challenges. How do you detect infection and deny access to anyone refusing to comply with established protective measures (e.g. use of face masks) without detracting from the desired customer experience?

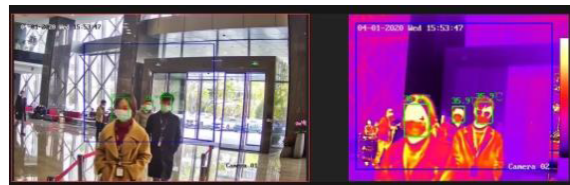
Bi-spectral cameras can be configured to scan for elevated skin temperature as a primary indicator of infection. This may be done from a distance at site locations. The Food and Drug Administration has issued guidance to permit deployment of this technology as a non-medical screening tool under prescribed rules and regulation.

These cameras can also be configured to detect face mask non-compliance with actionable feedback provided to a public view monitor for public response and/or operational staff. An investment in this equipment for COVID prevention also makes facial id for organized retail theft more cost effective to add versus a standalone proposition (leveraging dual use of the technology).

Similarly located stereo-optic people counters can accurately count people entering as well as the number compared against those leaving.



Bi-spectral Thermal and Facial Analytics



Bi-spectral Sensor Live View

Why Setronics?

Setronics has over 50 years of experience designing, installing and maintaining innovative, cost-effective security solutions across the Northeast and mid-Atlantic. Our systems protect over 1000 sites comprising over 100 million square feet. We continue to be well positioned to support your safety and security as you proceed under the **'new normal'**.

SOURCES:

- “Substantial undocumented infection facilitates the rapid dissemination of novel coronavirus” (SARS-CoV-2), Science, May 2020, <https://science.sciencemag.org/content/368/6490/489>.
- Widely followed IHME COVID 19 outbreak predictive model as of 5/5/20, <https://covid19.healthdata.org/united-states-of-america>.
- The US FDA does not object to the use of thermography devices if the guidelines promulgated in April 2020 are adhered to. Guidelines available at <https://www.fda.gov/media/137079/download>.
- CDC Guidance “How to Protect Yourself and Others”, available as of 5/5/20 at <https://www.cdc.gov/coronavirus/2019-ncov/prevent-getting-sick/prevention.html>