



Dawar Offers New Touchless Technologies

PITTSBURGH, September 3, 2020 – In the last few months we've all made numerous changes to the way we interact with our new COVID-19 world. Face masks, social distancing, and unceasing applications of hand sanitizer constantly remind us of the dangers of communicable diseases. Unfortunately this pandemic is occurring just as more and more devices are becoming touch enabled. Touching our personal cell phones, credit card machines at the grocery store, or kiosks at fast food restaurants has gone from a simple, intuitive interaction to a risky, disease spreading peril.

Dawar is working on several new technologies to reduce or eliminate the need to touch many of the devices we interact with every day. Imagine standing at a restaurant kiosk and selecting your items just by looking at their pictures on the screen. Or imagine waving your hand in front of a timeclock to clock in at the beginning of your shift. How about holding up your hand at a soda fountain to start dispensing your favorite soda. The technologies to enable all of these touchless interactions are available today. And Dawar, a world leader in touch panel manufacturing, can help you design and integrate them into your product.

Eye Tracking

Eye tracking technology has been available for years and has been a game changer for helping the disabled to communicate and interact with the world. The same proven technology can be easily integrated into your device's display. Enabling eye tracking in your application is a simple matter of adding a few lines of code to your existing program. You can use eye tracking to highlight items the user is watching, to trigger events like button presses, and even to navigate through your application. You can use standard eye tracking selection methods like dwell-to-select, or implement your own, innovative eye tracking events to differentiate your product. Eye tracking can be combined with standard touch technologies in such a way that a large portion of the user's typical interactions can be handled by touchless eye tracking, while the touch screen can be used for the remaining less-used interactions. Dawar Technologies can integrate eye tracking into your monitor and provide the assistance you need to quickly enable eye tracking in your product.

3D Gestures

3D gesture technology is just beginning to appear in applications like elevators and vehicles. One example is waving your hand from front to back underneath your car's sunroof to open it, and waving your hand in the opposite direction to close it. That same gesture recognition technology can be implemented in a monitor. Gestures like waving your hand from left to right across the monitor can be used to activate controls in the application. Or you might use hand waves in different directions (left, right, up, and down) to select a control and then use a stop gesture to activate that control, just like the arrows and enter function on your TV remote. As with eye tracking, 3D gestures can be combined with standard touch in such a way that gestures can be used to implement the most common features, reserving the touch screen only for the less common and more complicated tasks. The technology for recognizing gestures is very similar to the technology in projected capacitive touch screens, which is why Dawar is the perfect partner to help you develop a 3D gesture enabled product.

Proximity

There a number of proximity sensing technologies being used on products today. The most common examples are contactless faucets and hand dryers in bathrooms. These same technologies can be used in applications to accomplish tasks like waking up a screen when you approach it instead of having to touch it, or dispensing water or soda when you place your hand near the spout. Dawar Technologies can help select the right proximity technology for your application, and design and tune the contactless sensor to work in your environment.

Touchless Solutions

As a global leader in providing custom touch solutions, Dawar Technologies is in a unique position to help you implement touchless technologies in your product. Call us today to find out what touchless technology is right for you!