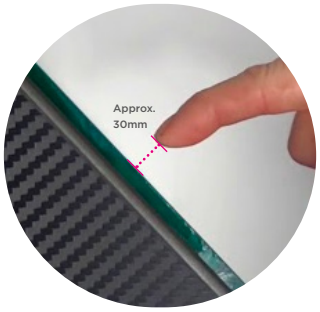
PRODUCT INFORMATION

ZyBrid® hover

Zytronic's award winning ZyBrid® hover contactless touch sensors are based upon our durable Mutual Projected Capacitive Technology (MPCT™), using specially developed ZXY500™ touch controller firmware

Zytronic has developed a contactless sensing option that can detect user interactions up to 30mm away from the surface of the glass. Based upon the company's fully customisable, multitouch ZyBrid® touch sensors, ZyBrid® hover is designed to assist manufacturers of touchscreen devices used in the medical, food processing and self-service industries reduce the risk of surface contamination.



FEATURES AND BENEFITS

ZyBrid® hover works in conjunction with Zytronic's ZXY500™ projected capacitive (PCAP) controller, which uses a proprietary firmware to boost sensitivity levels far beyond what is normally possible. This enables a significantly deeper touch-field to be generated. Furthermore, the multi-touch sensor can recognise simple gestures (such as zooms, pinches, and swipes) even when the user is wearing latex or thick work gloves. Depending on requirements, the controller firmware can also be set to work in standard touch mode, with direct user contact to the surface of the touchscreen.

Most other techniques used to enable a touchscreen to detect an interaction without physical touch rely upon infrared or camera-based touch detection hardware mounted around the front edges of the screen. Such arrangements inevitably create unsightly, protruding bezels, which can harbour pathogens and make the screen difficult to clean effectively. They are also susceptible to "false" or accidental touches, as they will react to any object breaking the IR light beams or coming into view of the camera – such as a sleeve, drop of rain or a falling leaf. Furthermore, intense direct sunlight and dust/debris accumulating on the surface may impede performance or prevent it from working. Projected capacitive or PCAP touch technologies will only respond to a finger (sometimes gloved) or a conductive stylus, so they are far less prone to such performance issues.

OPERATION

When implementing ZyBrid® hover, it is recommended that graphical user interface (GUI) designers should adapt their software to ensure an optimal user experience. This includes increasing the size of icons to be touched and introducing wider 'guard bands' around each active button area. Both will help reduce the risk of accidental touches when interacting with adjacent controls.

SIZE

ZyBrid® hover are available in almost any shape or size up to 55".

For more information on **ZyBrid® MPCT™ touch sensors** and the **ZXY500™ controller**, please refer to the applicable **data sheets**.